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 <213> *Enterobacter cloacae*

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 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4051

<211> 1395

<212> DNA

<213> Enterobacter cloacae

<400> 4051

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<210> 4052

<211> 938

<212> DNA

<213> Enterobacter cloacae

<400> 4052

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<210> 4053

<211> 774

<212> DNA

<213> Enterobacter cloacae

<400> 4053

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<210> 4054

<211> 912

<212> DNA

<213> Enterobacter cloacae

<400> 4054

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<210> 4055

<211> 933

<212> DNA

<213> Enterobacter cloacae

<400> 4055

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<210> 4056

<211> 1029

<212> DNA

<213> *Enterobacter cloacae*

<400> 4056

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<210> 4057

<211> 1509

<212> DNA

<213> *Enterobacter cloacae*

<400> 4057

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<210> 4058

<211> 1575

<212> DNA

<213> *Enterobacter cloacae*

<400> 4058

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<211> 813

<212> DNA

<213> *Enterobacter cloacae*

<400> 4059

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 <212> DNA
 <213> Enterobacter cloacae

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 <213> Enterobacter cloacae

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<210> 4062
 <211> 2307
 <212> DNA

<213> Enterobacter cloacae

<400> 4062

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<211> 1398

<212> DNA

<213> Enterobacter cloacae

<400> 4063

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<212> DNA

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<211> 1611

<212> DNA

<213> *Enterobacter cloacae*

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<211> 1005

<212> DNA

<213> Enterobacter cloacae

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<211> 1245

<212> DNA

<213> Enterobacter cloacae

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<210> 4068
 <211> 1347
 <212> DNA
 <213> Enterobacter cloacae

<400> 4068
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 cagcaataact ctacatcat tgcgcttac tctgcgctt acacgctaat gcagcctgtt 240
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 ctcgggggac cggcgacgca gaggtag 1347

<210> 4069
 <211> 414
 <212> DNA
 <213> Enterobacter cloacae

<400> 4069
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 gagaagaac aggatattca acgcgaatc agttatgccg aaaagcatata caatcagcac 180
 cggatcgagc gactgaaaaa agcgttgagc gaagtgaag acaactgtac ggacagcaag 240
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 caagacctgc aagaagcgaa agagaagggt gatcgggaaa aaattgccaa gcgcgagagg 360
 aagttgcaag aggcgcagga cgaactgaaa gcgctggagg ctgcgagta ttga 414

<210> 4070
 <211> 300
 <212> DNA
 <213> Enterobacter cloacae

<400> 4070
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 gaccgcggct ggaacacggt cctgagcctg cgttcatggg gcgtgttcgg cagcagcgtg 180
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<210> 4071
 <211> 717
 <212> DNA
 <213> Enterobacter cloacae

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<400> 4071
agagaggtca agtttatgat tacgacaaga acagcgaaac agtgccgaca agccgatttc 60
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ggttacgctt cactgcgtgt attgaatcag gaagtgcctg ccccgggcgc gtccctccag 180
ccgcgcagct acccgaaagt cgaatctctg aacctgatcc tgggaaggca ggcagaatac 240
cgcgatagcc agggcaatca tgtccaggcg aaggctggcg aggcgtgtt aatttctact 300
cagccaggtta ttgactacag tgagcataac ctacgaaaag acaaaacgct gaccgccgatg 360
cagctgtgtc tggatgctcg tccggagcgg gaaaatccgc tgggtcaaaa gatcgatctg 420
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acggaagaga aagaagcgct caccctggcg gacggggcgt ttattcgtga cgaagcgat 660
atcaactctg ttgccgatac gccgctggcg ggcgtgttga ttgatttgcg ggttttaa 717

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<210> 4072
<211> 1575
<212> DNA
<213> Enterobacter cloacae

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<400> 4072
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ccgcatggcc tggagctgat tgagcacatt ccgcaggggc ataaagtccg actggtggat 180
gtttacgctc accgtgaaat cgtgcgctac ggcgaagtca tgcgctatgc ggtgcgcgct 240
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gtttgtcgct ttccagtgta acaccatgct ggccttcagt cgtgttcga gcacatttta 780
caggtggcag aacgccatcg ggagaagtgt aacaaacgcc agcgtgaacc ctgcccgcc 840
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gcgcgggtga cgtga 1575

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<210> 4073
<211> 1326
<212> DNA
<213> Enterobacter cloacae

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<400> 4073
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aaccaggttg atcagtttgg cggctatacc ggtatgacgc ccgcgatttt ttatgggttt 240
gtctgcaagc tggcgggatc cctcggtttc ccacatcac agctgatcct tggcggcgat 300
catttaggtc caaacgcgtg gcaaaaacct ccagctttgc aggcgatggc gaacggcgac 360

```

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gatctgatca gaagctacgt ggcggccgga tttaaaaaa ttcacctoga ttgcagcatg 420
tctctgaaag acgaccocgt tcttllaacc gatgcaatcg ttgcggggcg ttgcgctcgg 480
ctggctaaaa ttgcggaaac caacctgtctc gagcaatttg gcgtagccga tctggtctag 540
gttatcgcca cggaagtctc ggttcccggt ggggcacacg agacgctgac cgagctttgag 600
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cagtcacaga aagtttcgca ttggtgctctc agctccacac caggggaact catctcgac 1260
cacattcagg acatactcca tcaagtacct gccgcctgcg aaggcgtaac gactcaaac 1320
gcataa

```

<210> 4074

<211> 942

<212> DNA

<213> *Enterobacter cloacae*

<400> 4074

```

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aagatggcat ctaatcacac caccctgcgc ggcgtgtctg aaagtgaaga gacactgctg 120
accggctgta atgaaaacgt ctacgaagat cagagttatt gcgctgagct aacgaaaaag 180
gatattaaac ttgtgcgcgt gcgttccatg ctgctacagg cctcgtttta ctacgagcgt 240
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aaactgcaaa ccgattgcat gcacaaactg atgcccgctg tctcgcaact ggtctacacc 840
ctgatcatgt tctggtcgtg acgcgctggc tggagcccac tgcgcctgat ttggtatcac 900
gtggtgctgg cgtgttgctg taattctctg cacttctctg aa
942

```

<210> 4075

<211> 1050

<212> DNA

<213> *Enterobacter cloacae*

<400> 4075

```

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tttataaagg gttcaattat gagcgataaa cgcactgcgg aagaaggacg gtttgcggg 120
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gaacagctga tgtacggccc caaaggcgcg gtggggcata tctctcgcta tttctcaat 840

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```

gccgaaggagg aatgcgtcga ggagctggag atccacaaag aattactggg cgtcacgctc 900
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gcgatttatg ccgcactgaa agtgcgcgtt attaatggcc tggtagcgga agagacgaca 1020
gcccgcgcgg tgctggctct gcccgataa

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<210> 4076

<211> 2064

<212> DNA

<213> *Enterobacter cloacae*

<400> 4076

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atgcacacgg ggctggagga gcgtccggac ggggctgaac gtctggcagc cttctatggc 180
gaacgcgcga gccacggagt ggctgtgatt gtccacggcg gcgtagcccc tgcccccttc 240
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<210> 4077

<211> 519

<212> DNA

<213> *Enterobacter cloacae*

<400> 4077

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acgctgccgc agggttacat cattgcgcaa caggatgatg acagccacgt cgcctcctgg 480

```

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519

<210> 4078

<211> 471

<212> DNA

<213> Enterobacter cloacae

<400> 4078

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<210> 4079

<211> 414

<212> DNA

<213> Enterobacter cloacae

<400> 4079

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actcagcagt	atatggaagc	gatggggcgt	ccggggttcc	tgctgccact	gaccattctg	180
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gtgaaactcc	tgatgttcat	gaaaaacctg	accatcgccg	gtgcttctct	gctgctggct	360
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<210> 4080

<211> 1059

<212> DNA

<213> Enterobacter cloacae

<400> 4080

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<210> 4081

<211> 489

<212> DNA

<213> Enterobacter cloacae

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<400> 4081
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gacgaggttg cagacgatcc ggttcagcaa aacctgatgg agatggtctg tcgggaagcg 180
atcgccgtgc gttttctggtc tctgcaaaaa gcgatcgaca acattcatcg cgcgcgcgac 240
cggcagaaaa ttctctgtgt ctgtaaaaaa ccggctgatt ttttaacgct ggtcgagggcg 300
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attgccaaaa cggatatcgt agacgcgaac gatatcgccg cgtttaacgg cctgaaggcg 420
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<210> 4082
<211> 1176
<212> DNA
<213> Enterobacter cloacae

<400> 4082
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<210> 4083
<211> 1146
<212> DNA
<213> Enterobacter cloacae

<400> 4083
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ccgtctgctc ttgtctcttt cgcgcgttct gccaatagcc cggagagcgt cgtgcgcgtt 360
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ggcagcctgt atcagaatgc cgtcgacaga gataacgctt gcgtctgct catgccagc 480
gaaacgcacg atcgcgggtt cgcgatgaca agcagcatca ccaccatgat ggcgagtgat 540
gtgcgggtat tcgcaccgga aacgatcaac agcaaaaagt tcgcgcagct tccgcgatcg 600
tgtcaggcga tctcaccgtc gcttggcgat ttacgccccg gcgtcttgg taacgaacgc 660
tggaaacgca ttgtttatct gggcagcggg gattacagc gcgcgcgacg gaagtacgcg 720
ttgaagtgct tggagctgac cgcgcggaag ctggcgcatc tctacgatc gccaacgggt 780
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caggctatgc cgtgtgtagc cattgcagcc gaaacggatc cgttatga agctggccc 960
cataatctgc tgcgccttc ccgttcattt aacgatatgg agcaggcgtt ctgcttctg 1020

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atgtacgccc aggtttttgc actgacccag tctctgcacg ttggcaatac gcggatcacg 1080
ccatccgccca gcggtacggt taaccgtgtg gtccaggggc tegtattatca tccgtggcag 1140
gcttaa

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<210> 4084
<211> 885
<212> DNA
<213> Enterobacter cloacae

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<220>
<221> unsure
<222> {613}

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<400> 4084
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gtctgtagcg aaatgcgcat gccggtgatc ctgcggggta cgcgggggag gtttaaacat 180
attgcgctgg aagagattta cgccttgctg agcgcgtatt ccttactta tgacatgcog 240
ctggcgctac acctgatca ccacgaatcg ctggacgaca ttccgcgcaa agtccatgcc 300
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cgcttctaca tgcgcgtcgg catggatgcc atgaaagagg tggtcagaag caaaatcacc 840
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<210> 4085
<211> 546
<212> DNA
<213> Enterobacter cloacae

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<400> 4085
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acgtttatgt tcccggtctc gctgttgccc ttatgggggt tgttgttagg tatcggtagt 180
tctgtcaaca gcccttcac catcaaaagt ttccctttc tggcgggcga gtttaacgag 240
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ggattcgttg gttacatgct gatgaacatg agcatcaact actacctgac cgccaccacc 420
cagcttgccg acgcgcgac catgagacag gtgggacaat ccactcgctt tggtattcaa 480
acgtgggaga tggcggtgct cggcggcatt gtggtagggt tgatcaacta cttcctgcac 540
gaaac

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<210> 4086
<211> 537
<212> DNA
<213> Enterobacter cloacae

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<400> 4086
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gtgtgggaaa aacgcttacc gggcacgcat gatttcgcga ttgacaaaag cctctggcag 180
tataccgagc atctgaaaaa ccagtatctt aagagcgccc cgcgcgatcaa caaggtgatg 240
tacgacaata agatccatgt gctgaaaaac gcgctcgccg tgcataccgc catctcccg 300
gtcgagggcg gcaagctgaa ggctaaagcg gagatccgcg tcgcgacgct ctttcgcaat 360
gcgcgggaaag cctttctgcg gatgatcgtg gtgcacgagc tggcgcaact gaaagagaaa 420
gagcacgaca aagccttcta ttcccgtgc tgccacatgg agccacagta ccaccagctg 480

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gagtttgata cccgtttgtg gctgacgcac ttatcgttaa agagtaatgc gcagtag 537

<210> 4087

<211> 999

<212> DNA

<213> *Enterobacter cloacae*

<400> 4087

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<210> 4088

<211> 810

<212> DNA

<213> *Enterobacter cloacae*

<400> 4088

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gaatttgcgt	cgcgcaggt	gaccaagcag	gacatcatga	agctgatgga	aatccaggat	420
cacgcgcgta	aagaaaaatg	tttccgcgat	tcggaatggg	accctgcaat	ccacgtccag	480
gtgcgccttc	cgactcagaa	cacggcgctg	gcggcaatcg	ttgaaaaaat	gtggactcag	540
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<210> 4089

<211> 663

<212> DNA

<213> *Enterobacter cloacae*

<400> 4089

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ggcttgcgtg ggggtgcgat cctgaccacg ctccgctacg cgtggggtaa aacgcgggtc 540
 tttatgaaat acgaagacca actgatgtct tgccgtatgc tgcctgccgt cgttctgcgtg 600
 gtgtttggcc tggtcgggtc cctggtcgta ctgtggaaga agaaatacgg ggcacggggg 660
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<210> 4090

<211> 330

<212> DNA

<213> Enterobacter cloacae

<400> 4090

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 aaagaagaag tcagcaaaact gcgcagcaaa gcggagcagg cactgaaaga gagccgttac 180
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 gacgaatatg tacgtgataa tccctggacg ggtgtgggta ttggcgccgc agtgggtgtg 300
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<210> 4091

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 4091

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 ggctggatcg tgattttgat ttcaactcgt cagagcgcaa cgcggggcga aaaccgcttt 360
 ggtccggatc ctaaggcaag cgcgtaa 387

<210> 4092

<211> 864

<212> DNA

<213> Enterobacter cloacae

<400> 4092

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 cttctccgctt ttatagcggg cctggatgatg tttaacggct taacacacat gcaccgtcca 180
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 ttgtgcgcgc cgcctggtc gaaactccgc gtgctggcga ttgcgcgcgc tgcactggcg 780
 atggcgctga tcgaactgct gcgcaaatcg cctgaaccca cggcgctcgc ggccagaaa 840
 gaggaaattg aagatggcat ctaa 864

<210> 4093

<211> 471

<212> DNA

<213> Enterobacter cloacae

<400> 4093

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agtgaagcct	ttcgtttgca	ggcgtctggg	tgcggccatc	cgcgctcgac	cagcctgtgtg	420
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<210> 4094

<211> 1842

<212> DNA

<213> *Enterobacter cloacae*

<400> 4094

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gaactcgcga	accgttttgg	gccgcatgcc	tttactgttc	agggccacccg	caccggggta	180
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caactgcagc	agatcccgcg	cgccattcgc	ggcagttcgt	ttcccgacct	gattgtgtat	1800
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<210> 4095

<211> 996

<212> DNA

<213> *Enterobacter cloacae*

<400> 4095

ccctcaggag	gcaaaagcat	gagtttggtta	acgcgggata	ttatcgacat	cctgctgagc	60
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tggtccagta	acaaacaaata	ctcgtctcgt	ggtgcgatgc	gtgcttcgcg	cgagacgcgt	480
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gaccaggtta	tgtccttcgg	ctggaaaagt	tgcctgcgcg	tgacgctcgt	caacttgtgt	960
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<210> 4096

<211> 693

<212> DNA

<213> *Enterobacter cloacae*

<400> 4096

tttcgggtcc	gggcaaatat	cgggaatata	acttctaccg	gatggcggtg	atggcaatcg	60
accggcaaga	taagggcgaa	gcagagaaac	aagccaaagc	tatcgacgtc	aagagcctgt	120
taccgtgaag	agagggcaat	ggaattcgct	ttttatatct	gtggcccttat	cggcatcctg	180
gctacgctgc	gagtgatcac	gcacaccaat	ccggtgcatg	cgcgtctgta	tttaaacatc	240
tcgctgtgtg	ctatttccgg	ggtgttcttt	gcgctggggc	cgcacttcgt	cgggtgcgctg	300
gaaatcatcg	tctaacgcgg	ggcccatcatg	gtgctgttgc	tgttcgttgt	gatgatgtct	360
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ggcccgcgga	ttctgtcgcc	catcatgctg	gcggtgattg	tttaaccgat	tctgcggctc	480
aacgaccagg	gtatcgacgg	gacgcacaac	agcgcgaaag	ccgtgggtat	caccctgttt	540
ggctcgttac	ttctggcggt	tgagctggcc	tcgatgctgc	tgcctggcgg	tctgtgtgtg	600
gccttccacg	ttggcgcgga	agagcgtgtc	ggcgaggtgc	tgagcaaccg	cactgacgac	660
cgcgcgaaaa	gaaaaaccga	ggaacgcgca	tga			693

<210> 4097

<211> 1311

<212> DNA

<213> *Enterobacter cloacae*

<400> 4097

caggggagag	ttcgctgtga	ctcgattttc	ctcgcgctgc	aaagcctgcg	cactcagctt	60
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gacgccttgc	atccgctggc	ctggctgggtg	gtgcagcgat	gctatcctca	gttttactgg	180
caacagcgca	gcggcgatga	agaaactggc	gcgctcgga	gcctcgccca	gtttgattct	240
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ggcctgaagc	ccttcaaccc	ggcgagggcg	aagctgtttt	taccgcgctt	ttctggcgga	360
cggttcggcg	gggtcgccac	gctcgctctg	caactgtgga	gcgaaacgtc	gctcggggaa	420
gatgcgcgtg	agggcgtgaa	ttttgtcgat	aaactgcgcg	acgcgcgcgc	gatccgcgcg	480
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ctgcgtcttt	atgcgggggg	gggcacgtgc	agcgctccgc	atcctgagca	ggagttggcg	1260
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<210> 4098

<211> 822

<212> DNA

<213> *Enterobacter cloacae*

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<400> 4098
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gactgtcgcg agtgcgcaggc tgcctgcatg actaccccgc gctctacatt 180
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gaattgctct ccataacctc tgttagttac aacataactaa gatactggct cgtgggggtac 300
tccctcggcgc gccgcattgc gatgttccat gcctgccagc atcctcggggg gttagacggg 360
gtgattgttg aaggtggaca cccggcgctg caagacgccc atgcgcggctg 420
atctctgaac gccgctgggc gtaacggttt cgcagtgagc cgetggaggc cgtctttggc 480
gactgggtatc aacagccggt ctttgccctc cttacgggat atcagcgagc ggcgctgatc 540
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gccgtttcagc ctgatttacg tcccgcgctc atcgcgcggt atttttcttt tgactatctc 660
tatggcgaaac gtgacgggaa gtttgcagct atcgccaactg aacttaacgc caccgctcat 720
gctatccctc acgcgcgaca caacgccac cgggacaacc cgggaagctg tgccgcgagt 780
ctggctcaga tactgcgtta tcgaacaaag gacacgctat ga 822

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<210> 4099
<211> 1617
<212> DNA
<213> Enterobacter cloacae

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<400> 4099
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agggtctgag cgggtgatca gttcatccat cgaatccagc ctggcgctga cgcagctggc 120
gcgcactcgt ccatgtgttaa cgcgcgacac cgttcccggg ctcgatacgc taaacctgat 180
gcaggccacg ctgatttcgc agtggcctgg cagcaccttg ccgtgcctgc cgttcggggc 240
gctggagcca ttccgatgag ttttaccgac tggccgtggc ggcaactggc cacccgggct 300
gccgataaac ccgcgctggc tttagacgat gtaacgctca gttggaactc gctgggcaag 360
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atgctgctgc cccacaacca cccgcagacc ctgctggcct gcttcaagtc 480
ggcgcgccga ttttgcggct gaacccctcag cttcccgcgc cgetgctgga cgtcctcctg 540
ccgcagatga cccctgcgtt tgccgtgggt cttaacgggt agtatgacgg tctgcgccgc 600
ctggcattaa gagaggcgga gggcgagggg ggcgtgacgt ggcgggcaga acgactggcc 660
tcaatgagcc tcacctccgg ctccaccggg ttgccaaaag cgcgcggtga caccctgtgc 720
gccacccttg ccagcgcaaa aggggtgctg gcgctgatgc cttacggcga tgcgacgac 780
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gcgcgctttg agcagccggt acactggctg acgctgcgct cagaactgaa aaatggcggg 1560
attaaaaatc cccgccaggc gttaaagcag tgggtcaatg cccgtgttag ggcgctaa 1617

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<210> 4100
<211> 513
<212> DNA
<213> Enterobacter cloacae

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```

<400> 4100
gacagagaaac agaccaatca ccacgacgat aaactgcacg ccgtcggaga gatgaacgct 60
gtcgaaggtta aaacgataaaa ccccgggtgtt ggcattccag ccgacggtgg ccagactgag 120
gccaatccac gcagacaaaaa agcaattcag cggattctgc gcatcatcgc tgccgagaca 180
ggcgatggcg aacaccatca gggcaaaata ctggcgccga ccaaacgcca gcgaccactg 240

```

```

ggccagcgcc gggcggaaga g gatgatgcc gccaatggcg atcaggggag caaagaacga 300
gctgacggcg gaaatagaga gcgccacgcc gccgcgtccc tgcgtgcgca ttggatagccc 360
atccagcgcg gtcataatgg cggcgccatc gccggggcag ttaagcagaa tcggagaaat 420
agcccccgcg tattcgacgc cgatataaac cgtgcgcagc aggatcagcg ccgatctccgc 480
aggcagggtgc agcgcaagg ccagcggcagc taa 513

```

<210> 4101

<211> 729

<212> DNA

<213> Enterobacter cloacae

<400> 4101

```

aacaataacc ttctatttcc ctttcaactgc gacaccaact ttacaggatg tgatatgcgt 60
ctcttactgg cgggaagataa cgtgagcgtg gctcaactggc tggaaaaagc gctggatacaa 120
aacggatttg ccgtggattg cgtcaacgat ggacggggcg ccgatcatct ttgcaggga 180
gaaaactatg ccgtcgcat ccttgatc ggcattgccc gtttcgacgg cctggagggtg 240
gtgcacggcg tgaaaaaggc cgggcagacg ttgcccgctg tgtttcttac gcccccgcagc 300
aacgtggcag acagggttaa gggcgtgaat gccggggcggt atgactacct ccgcaaaaccg 360
ttcagcgtcg aggagcttga tgcgcgcctg cgtgcgcgtg tgcgcgcgag tgaaggggcga 420
accacggagc gccagcgctg gggagagcgt gagtacgatg atgaaggctt ttttctgctg 480
cccgatgaac ccttttccct caccgcgcgc gaactctctt tgcgtgaagg gctgatgcac 540
cgtcggaccc gtcccgctgc ccggcaacag cttttcgacc aggtgttcag gctgaacgac 600
gacgtcagcc ccgagagcat cgatctctat attcaacgcc tgcgtaaaga gctgaccgcg 660
agcggcgctg ggatecacc cctccggggg cttgggctacg tgcgtggagt cggcgatgaa 720
gtgggttaa 729

```

<210> 4102

<211> 366

<212> DNA

<213> Enterobacter cloacae

<400> 4102

```

cggcgttaag agccggtaat gattgagggt gatgaactgc tgcgtgggtg actctgcgcc 60
aacctgctgg agaacgcgat caaatacacg ccggagcagg gcactgctac ggtgtacctg 120
cgacaggcta acgatgccgt tgagctgagc gtggaggaca ggggaccggg tattgtctga 180
gaccagatct ccagggccat gtcgcgttct catcgtctgg aaaacgtggg tgatgcgccg 240
gggtccggca ttggcctggc gctggcctaac gatattgcgc gcctgcaccc cagccatctt 300
cagctgatgc ccagtgaaaa tctgggtggg ctgagcgtga aaatgcgcct tctgatgctg 360
atataa 366

```

<210> 4103

<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 4103

```

atgccgatat tatcaaatcg ttacaaacta attgcctgcc gcacgtggag tccattgatc 60
acacaggcag gcagggttaaa atctcgcggt ttttggacat ctcgtgaataa attgtgcggg 120
atcacgacaa gcaaaaaagt ggcattaatg ggcttaagcg gctgatgatt tgtttcagca 180
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gacggcgatg cggcaagcct gggcctcgcc ttcaacgtgc cgttgggttc cttcctggcg 360
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gcgggttaag acggcaaccg cgacaacgcc cttggcagagc gccctgacct tggcggttagc 660
gcgggtttct aa 672

```

<210> 4104

<211> 1371

<212> DNA
 <213> *Enterobacter cloacae*

```

<400> 4104
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ccagaggcgg agatcgatcc tctctaccgc cgtctcggtt ggcaaatctt cctcgggac 120
ttcttcgggt atgcggcgta ctatcttcta cgtaaaaact ttgcgctcgc cctcggcat 180
ctggtggatc agggcctctc tcgcggcgac ctggggtctcg cgtcgtcggg gatctccatc 240
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tjctcgccgc ccggtctgat cctcgcggca cgggtcatgc tgttcattgg ctttgtgcgc 360
tgggcgacgt ccagcatgtc catcatgttc gtgctcgtgt tctcttccag ctggttccag 420
tgggatgggtt ggccgccttg cggacgtacc atggtgcact ggtggtcgca gaaggagcgt 480
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ggcggttcta tgggtgatgat cggcggcagc gtgctgcggg tctcgtcgtc gtttgtgtg 1320
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```

<210> 4105
 <211> 444
 <212> DNA
 <213> *Enterobacter cloacae*

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<400> 4105
gcaatgagta tgtcaacatc cacagaagtc atcgctcacc actgggcatc cgaactcttt 60
cttattgtat ccattggcct gtgctgcctg atgttagtcg gcggtcggtt cctggggcgt 120
cgcgcgccgc caaggcacia aaacacaccc ttccaatcag gtattgatct agtaggtacc 180
gctcgtttac gctcgtctgc caagtgttac ctggtagcca tgttcttctg catctttgac 240
gttgaagcgc ttacctctt cgcgtggtct acctccatc gcgaagtggt ttgggtgggc 300
tttgcgagg ccgcaacttt cattttagtg ttactggcgc gtcctgttta tctggtgcgt 360
atcgcgcgcc tggactggac acctgtgcgt tcaogcgctg aacacatcaa cccggaaaaa 420
agtatctcta atcgtcagca gtaa

```

<210> 4106
 <211> 690
 <212> DNA
 <213> *Enterobacter cloacae*

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<400> 4106
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cgttaacccc tgcaaaaaa gtagatcgta accgaccccc tggagcaaga agtcaacaaa 120
agcgtgtata tgggcaagct cgaacatgcc atgcacgaca tgggtcaactg ggggtcgtaag 180
aactccatct ggccatacaa ctttggcctt ggggcccagg tactcgtcgc tctcccgct 300
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tccggcggtta tgcacgact ttattccgct cccgcgcgct ccagaggcct atatgcagg cctgatgctg 540
gatgtgtata tcccggtttg cccgcgcgct cgcgtttcat ggggtgtgtg ccatcagggt 600
ctccaggagt caattgttaa agaaccgcgc cgcgtttcat ggggtgtgtg ccatcagggt 660
gtctatcgcg cgaacatgca gctcgtgcgc ggcgcgcaac gttgtgaaag tattgcctgc 690
accaacctgc gtacgcctga cgaatttaa

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<210> 4107
 <211> 1356
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4107
 cctgctggag cagtacaaat gaaaactgta attcgtactg ctgagacgca tccgctgacc 60
 tggcgtctcg gtgatgacaa acagccggta tggctcgacg aatatcgag caaaaaacggc 120
 tatgcggctg cgcgtaaagc ccttgccggc atggcccgcg acgacatcgt taacccgggtg 180
 aaagatgctg gcctgaaggc ccgcgtgtgt cggcgcttct ccacccgctgt gaagtggagc 240
 ctgatgccga aagatgaatc catgaacatc cgttacctgc tgtgtaacgc cgtatgaaatg 300
 gagccgggta cctataaaga ccgctctgtg atggaacagc tggccgacct gctggtggaa 360
 ggcatgctga tctccgcgtt cgcgctgaaa cgtgtaccgt gctacatctt cctgcgcggc 420
 gaatacatcg aagccggcga aaacctgcgt ccgcgcattg ccgaagccac cgaagcggga 480
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 gcgaacccgc gctccaaagc accgttccct gcaagctccg cgcgtgtggg taaaccggacc 660
 tgcgtcaaca acgtcgaaac cctgtgtaac gtcccgcgca tcccttgcaa cgcgctggag 720
 tggatatcgg gcatctccct aagcaaaagt gccggtacca agctgatggg ctctcccggt 780
 cgcgtgaaga accctggcgt ctgggaagct ccgttgcgca ccaccgcacg cgaaattctt 840
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 <211> 2760
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4109

<211> 1851

<212> DNA

<213> Enterobacter cloacae

<400> 4109

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<210> 4110
 <211> 1536
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4111
 <211> 1464
 <212> DNA
 <213> *Enterobacter cloacae*

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 <211> 339
 <212> DNA
 <213> Enterobacter cloacae

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 <212> DNA
 <213> Enterobacter cloacae

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<210> 4114
 <211> 1068
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4115

<211> 1122

<212> DNA

<213> Enterobacter cloacae

<400> 4115

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<210> 4116

<211> 1221

<212> DNA

<213> Enterobacter cloacae

<400> 4116

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<210> 4117

<211> 2637

<212> DNA

<213> *Enterobacter cloacae*

<400> 4117

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<210> 4118
 <211> 2871
 <212> DNA
 <213> *Enterobacter cloacae*

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<400> 4118
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<210> 4119
 <211> 537
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4119
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<210> 4120
 <211> 423
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4121
 <211> 651
 <212> DNA
 <213> Enterobacter cloacae

<400> 4121
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 tacccggaat ataacttcta ccggatggcg ggtatggcaa tcgacggcaa agataagggc 600
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<210> 4122
 <211> 336
 <212> DNA
 <213> Enterobacter cloacae

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 tttatctgta tcggtctgga aatcatgac aacgcttcgg cgtggtcgtt tgtggtcggc 180
 ggcagctact gggccagac cgtatgtcac gtgatgtaca ttctcgcat cagcctcgcg 240
 gctgctgaag cgagtattgg cctggcgctg ttgctacagc tccactctgg ccgccagaa 300
 ctgaacatcg attcagtaag tgagttgcgt ggtatga 336

<210> 4123
 <211> 498
 <212> DNA
 <213> Enterobacter cloacae

<400> 4123
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 agcgaactga ccgtgcagtc actctacgcc ctgctcgtga agtcttcgtg 120
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 aagctgggct atcagctgat ggaaaaaacg ctggacgcat gccagaaaca gtggccggac 360
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<210> 4124
 <211> 207
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4124
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 gtgaagccgg gctggcgcat cgtatccgca aatatcttcc cgagcaggga caactttttg 180
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<210> 4125
 <211> 969
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4125
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<210> 4126
 <211> 1191
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4127

<211> 741

<212> DNA

<213> Enterobacter cloacae

<400> 4127

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<210> 4128

<211> 2328

<212> DNA

<213> Enterobacter cloacae

<400> 4128

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<210> 4129

<211> 1221

<212> DNA

<213> Enterobacter cloacae

<400> 4129

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<210> 4130

<211> 1530

<212> DNA

<213> Enterobacter cloacae

<400> 4130

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<210> 4131

<211> 1050

<212> DNA

<213> Enterobacter cloacae

<400> 4131

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<210> 4132

<211> 744

<212> DNA

<213> Enterobacter cloacae

<400> 4132

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cacacaacgc ccaaaaaaga ctaa

744

<210> 4133

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 4133

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<210> 4134

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 4134

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<210> 4135

<211> 1659

<212> DNA

<213> Enterobacter cloacae

<400> 4135

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<210> 4136

<211> 1320
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4137
 <211> 1032
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4138
 <211> 546
 <212> DNA
 <213> *Enterobacter cloacae*

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<400> 4138
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<210> 4139

<211> 1053

<212> DNA

<213> *Enterobacter cloacae*

<400> 4139

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<210> 4140

<211> 1095

<212> DNA

<213> *Enterobacter cloacae*

<400> 4140

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gcgcatacgg acaatggtgc cgtacacgcg gatatttctt taggcttca ttccagtcat tgccaatac 1095
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gttcatggcg tatag

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<210> 4141

<211> 291
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4141
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 catcagggtg aggtagagta ccagtgctgt gaaggtatt ggcgtctctg ccgctgcctg 180
 ctggctcgag gccaggtgga ctggctgacc gaaccgctgg cctttatcag tgaaggggaa 240
 attttgcctt gctgctgcgc ggcaaaagc gatattgaga tcgagatgta a 291

<210> 4142
 <211> 1329
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4142
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 gataccgtga ttgtgggtgg ggggtctggc ggctgctgtt gcggcctcaa actgacgcag 180
 cggggctctg gctgcgccat tgtactctgc ggtcagagtg ctctgcaatt ctctccgcg 240
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 ctttaagcca tccgctcggt tctggggcgg tactgatccc tggcgacagg tgcgggtggc 1260
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 gcaaatga 1329

<210> 4143
 <211> 984
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4143
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 gataagatcc gtgtgctggc ggtcttctca gaaaaccgtc tgcggggcca cctggcgagc 720
 gtcccacccg ccaaaagaca gggttataac ctggtctggc cgatcatccc gcgtctcttc 780
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cagcaaacgcg aggagttcaa aaaacagcgc gatctgcgcg ggctgtttga gtccaacctg 900
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 aaagcctttg gtctggcgaa ataa 984

<210> 4144
 <211> 768
 <212> DNA
 <213> Enterobacter cloacae

<400> 4144
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 caggatatga acctggcgcg catcattgag cagtctatcc aggaatcat cgataaacat 600
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<210> 4145
 <211> 348
 <212> DNA
 <213> Enterobacter cloacae

<400> 4145
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 tcagcgataa taagctatgg ctttaagttat tattttttat cgattgcatt acgccgaatt 180
 catctcgccg taggcctacgc tatctggtca gcggtccggt tattcagcat gaccgttata 240
 cagaccgcgt tttttgacta tattgtatcg cagagagcat ggatgggtct ggggaatgggt 300
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<210> 4146
 <211> 2463
 <212> DNA
 <213> Enterobacter cloacae

<400> 4146
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 cgtgaagcct atcttcaggc aaaaacctttc gtctcgcgcg atcgggcctg gagtgtaac 180
 caggtctata aagacaatcc gggaatgaac aacagcctgc tcaggccact ggcctttcgg 240
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<210> 4147

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 4147

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accatggaa aaccggaggt ggaatgatga aacgggtcta taacttatga ggaatgtgct 180
ggaatgaac atgctatcaa ccggatcaaa attattcaga tgatcgagaa ataa 234

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<210> 4148

<211> 1149

<212> DNA

<213> Enterobacter cloacae

<400> 4148

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cgtgaagggg taccagcagg ggcgtgaacgc ggaatggctc tggtaacgac gcgttatgaa 60
gtagcttttc cccctctccc ctctcccgtg ggagaggggg tgcgttcgtc atattttcag 120
tataaacgatt tccccatgcc acacttttcc acccgctgac ttcagggtct gtgactctc 180
ctgtctcaagc tgttggggct aactgctggt acgtttgcgc tctctgcctt tccccgggtc 240
gatcgcgtat gcagatcgt ccagatcacc gccagccagt gccactaacc tcaggtaacc 300
caccagcgtt ggcgtgcatg gccctgccgc gtgcagttct ggcaactacc gcaaaacctc 360
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gtgcgcataa

1149

<210> 4149

<211> 966

<212> DNA

<213> Enterobacter cloacae

<400> 4149

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ggcaagatgc	tgccgacgct	cgaccgttcg	caaccgtgga	aggaggacga	caatggcact	960
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<210> 4150

<211> 894

<212> DNA

<213> Enterobacter cloacae

<400> 4150

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aaacggctcg	aagaggaaat	gggcacgcgc	ctgttcaggg	gcctgacgcg	ggggctggag	180
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atcacagttt	cagatgcttt	tcattccaaa	atcttcgccc	tgattccgca	gtttcaggta	360
cagaaatcgg	cggtgcaggt	tcaccaggtg	gaagccaata	tgctgtcgtc	gacgacgatg	420
ctgcgcgagg	gtgagctgga	tatcgctttt	gtgcgcctgc	cgctgcgagag	cagtaagggtg	480
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<210> 4151

<211> 495

<212> DNA

<213> Enterobacter cloacae

<400> 4151

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tcggagagct	caaccgcgca	gcgcgtatca	cgaagcgctt	cgaccaccgc	ctgcgcctgc	180
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agggcacgca	gccaccggcg	gctgtcggca	ttttgtgtcg	ttttgaccgc	caaaaaaacg	420

agggtcaacgg ggcgcgtaat gacgctggga tcggtgagta ccggaccggg caccacaatt 480
tcaccctcat catga 495

<210> 4152

<211> 807

<212> DNA

<213> Enterobacter cloacae

<400> 4152

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gaactgattt	gccttattaa	ggataacgga	cgtatcgaac	tcttgggcaa	agcgagcctg	780
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<210> 4153

<211> 975

<212> DNA

<213> Enterobacter cloacae

<400> 4153

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tttggtaacg	gaaaatacac	attactcaac	atggagtacg	actggaacag	aggttcacga	900
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acgtagcag	gttaa					975

<210> 4154

<211> 1602

<212> DNA

<213> Enterobacter cloacae

<400> 4154

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gttgaccagg	gcaaaaactca	gatcgtgggt	cgcgataacg	tgaaggggta	tcagcagggg	1560
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<210> 4155

<211> 864

<212> DNA

<213> *Enterobacter cloacae*

<400> 4155

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cgggcgcgcat	ttatggcgca	cggggagatc	cagcggttat	ttgaccgtga	agcaatgttg	840
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<210> 4156

<211> 273

<212> DNA

<213> *Enterobacter cloacae*

<400> 4156

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attagcacca	tgacgggtgc	gtcgcaggat	aagccgctga	cgctcaacaa	cgcgattaat	120
atcgctctgc	tgatccaggc	caocgtcacac	tggcgtctga	ccacgcggcc	ttataagcat	180
caggaaacgg	attttctcgc	gtacctcttt	accgttttca	ggtgtgtcgc	tacggatagg	240
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<210> 4157

<211> 537

<212> DNA

<213> *Enterobacter cloacae*

<400> 4157

accataaggt	cttttcagga	tttccttaaa	tggagtttta	aacaaatggc	tattcccgct	60
tatttatggc	ttaaagatga	cggcgcgct	gatataaaag	gctctgtcga	tatatatgga	120
cgtgaaggt	gcacgcgat	tacgcctta	aatcacggca	taatgcagcc	cacggacaag	180
cataacggca	aggcgacaag	tcttcgcac	cattccccct	attcttttca	taaaagagac	240
gacgcttcca	gcccttattt	gtacaaggt	gtagcacgg	gccagaagct	aaaatccgca	300
gagataaagt	ttacgcgat	caacgatgct	ggtcaggaa	tggaatat	ttccaccctt	360
ctggaaggcg	tgaagatgc	cagcgtctgt	ccaatgatgc	ttgatataca	agatcctgac	420
tatgagaagc	ataaccatct	tgaagctgta	gagctgctct	atgaaaaaat	tacctcgccgc	480
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<210> 4158
 <211> 753
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4158						
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<210> 4159
 <211> 663
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4159						
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taa						663

<210> 4160
 <211> 1452
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4160						
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<210> 4161

<211> 429

<212> DNA

<213> Enterobacter cloacae

<400> 4161

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atctggggcg	gactggggat	tgtactgatt	accgtgatga	gcagcttatt	ttatcgatta	360
aaaagcagca	ttctggaaaa	gatcggaatt	ggctgcacgc	tcaccgggct	ggcgatcacc	420
gcctttttaa						429

<210> 4162

<211> 879

<212> DNA

<213> Enterobacter cloacae

<400> 4162

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attgcgcgca	ttccaggcgg	ggcgattctg	tttgccagcg	tggcctttaa	cctgctgggg	840
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<210> 4163

<211> 1140

<212> DNA

<213> Enterobacter cloacae

<400> 4163
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<210> 4164
<211> 267
<212> DNA
<213> *Enterobacter cloacae*

<400> 4164
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cgggagagcag tggtttcagac cttctcatatg gtgcgatctga atcagctgtga caccattgtg 180
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cgccgtgtgt tttacttcgc gtcgttaa 267

<210> 4165
<211> 2181
<212> DNA
<213> *Enterobacter cloacae*

<400> 4165
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<210> 4166

<211> 579

<212> DNA

<213> Enterobacter cloacae

<400> 4166

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579

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<210> 4167

<211> 774

<212> DNA

<213> Enterobacter cloacae

<400> 4167

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<210> 4168

<211> 1302

<212> DNA

<213> Enterobacter cloacae

<400> 4168

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cagggaattaa ttgctcaggt tgaagagttt gggattgaaa ttaatcacac cacctcttta 120
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<210> 4169

<211> 786

<212> DNA

<213> Enterobacter cloacae

<400> 4169

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gactga 786

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<210> 4170

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 4170

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ttaaactcaca ggaaaaagggt tatgaaaaaa acgaactgcta ttttgatggg cgctgcattt 60
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gaatcacagt atgaaaaaat cggtaacctg agcacggcta acgaagtctc tctgcagcat 180
gcgaaaaaag agctggtcga aaaggccgat aaagaagggt ctgatgtact ggtgctgact 240
tcggtaata caaaaacaaa aattcacggc accgcgata tttacaagaa aaataaa 297

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<210> 4171

<211> 1986

<212> DNA

<213> Enterobacter cloacae

<400> 4171

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<210> 4172
 <211> 1392
 <212> DNA
 <213> Enterobacter cloacae

<400> 4172						
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<210> 4173

<211> 1296

<212> DNA

<213> *Enterobacter cloacae*

<400> 4173

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<210> 4174

<211> 1041

<212> DNA

<213> *Enterobacter cloacae*

<400> 4174

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<210> 4175

<211> 420

<212> DNA

<213> *Enterobacter cloacae*

<400> 4175

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<210> 4176

<211> 2721

<212> DNA

<213> *Enterobacter cloacae*

<400> 4176

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<210> 4177
 <211> 1092
 <212> DNA
 <213> Enterobacter cloacae

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 <211> 3165
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4179

<211> 306

<212> DNA

<213> Enterobacter cloacae

<400> 4179

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<210> 4180

<211> 723

<212> DNA

<213> Enterobacter cloacae

<400> 4180

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<210> 4181
 <211> 804
 <212> DNA
 <213> Enterobacter cloacae

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 caaaaaacgc cgttcgcgtt gatgaacctg ttccagccgc agtaccgcaa aacctctgac 360
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<210> 4182
 <211> 834
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4183
 <211> 258
 <212> DNA
 <213> Enterobacter cloacae

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 aaaaagccga tctcaacccg ctggaaaaac gctacggcat cagcagacgc gatgaatcgt 180
 accgctggaa cgaggtggat gagcgggtca gcgttgataa aaccctaacc gaacccaacc 240
 gtttcggctg ggtggtag 258

<210> 4184
 <211> 1245
 <212> DNA
 <213> Enterobacter cloacae

<400> 4184

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<210> 4185

<211> 1020

<212> DNA

<213> Enterobacter cloacae

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<210> 4186

<211> 309

<212> DNA

<213> Enterobacter cloacae

<400> 4186

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<210> 4187

<211> 1632

<212> DNA

<213> Enterobacter cloacae

<400> 4187

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<210> 4188

<211> 894

<212> DNA

<213> Enterobacter cloacae

<400> 4188

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<210> 4189

<211> 1779

<212> DNA

<213> Enterobacter cloacae

<400> 4189

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<210> 4190

<211> 240

<212> DNA

<213> *Enterobacter cloacae*

<400> 4190

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aacgcgttgc  ctacgggagc  gaaaactttg  ccaaacgcac  taccgtttgc  cgtttgtccg  180
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<210> 4191

<211> 765

<212> DNA

<213> *Enterobacter cloacae*

<400> 4191

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<210> 4192
 <211> 2193
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4193
 <211> 489
 <212> DNA
 <213> Enterobacter cloacae

<400> 4193
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 aaaaatcgaca aagagaaacg ggtgctgtcg gtggggctgc tgatgaacag catcaaacca 360
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<210> 4194
 <211> 930
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4195
 <211> 237
 <212> DNA
 <213> Enterobacter cloacae

<400> 4195
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 ggacgcgcgc cctgttttaa aatccgcgcg agctccagcg ccatcagcgg ctgtgcttcc 120
 ggcggcttga ggaatcacgc gttcccgccg gcaatcgccg gtgcgacctt ctgcatttcc 180
 ctggcaatcg gcgagttcca cggcgtgatg gccgccacca cgcgaagggg ctctgatg 237

<210> 4196
 <211> 369
 <212> DNA
 <213> Enterobacter cloacae

<400> 4196
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 cgataccgcg ctggccgacc tgcgccacgt ccagcgaggg gatgtactca aagccaagac 120
 gcagcaagtt catgccacgc gaaaaggtat tgggtgcgct gttgcgcctc agaaagccca 180
 tgcactccag cgtctgcacc accgcgatag cgttcgcctt cggcataatc accagccggt 240
 cgaagtcggc aaaaagtcaga tgcgcatggt gctcgcgcaa ggccaacacg agctgtaaac 300
 cgcgctccag ccccggcacc agaacttca ctctctgac gtttgcactc atcgcctac 360
 cttagttaa 369

<210> 4197
 <211> 765
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4198

<211> 750

<212> DNA

<213> Enterobacter cloacae

<400> 4198

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<210> 4199

<211> 960

<212> DNA

<213> Enterobacter cloacae

<400> 4199

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<210> 4200

<211> 318

<212> DNA

<213> Enterobacter cloacae

<400> 4200

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cgacgcgcgc	tcgcgaggcg	ctcggcaaa	gacgggctgt	cgaggcctat	ctcccgctgc	240
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318

<210> 4201

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 4201

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<210> 4202

<211> 597

<212> DNA

<213> Enterobacter cloacae

<400> 4202

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<210> 4203

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 4203

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<210> 4204

<211> 1071

<212> DNA

<213> Enterobacter cloacae

<400> 4204

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<210> 4205

<211> 1260

<212> DNA

<213> Enterobacter cloacae

<400> 4205

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<210> 4206

<211> 1683

<212> DNA

<213> Enterobacter cloacae

<400> 4206

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<211> 639

<212> DNA

<213> Enterobacter cloacae

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<210> 4208

<211> 846

<212> DNA

<213> Enterobacter cloacae

<400> 4208

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<210> 4209

<211> 1314

<212> DNA

<213> Enterobacter cloacae

<400> 4209

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<210> 4210

<211> 696

<212> DNA

<213> Enterobacter cloacae

<400> 4210

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<210> 4211

<211> 1425

<212> DNA

<213> Enterobacter cloacae

<400> 4211

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<210> 4212

<211> 453

<212> DNA

<213> Enterobacter cloacae

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<210> 4213

<211> 420

<212> DNA

<213> Enterobacter cloacae

<400> 4213

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<210> 4214

<211> 717

<212> DNA

<213> Enterobacter cloacae

<400> 4214

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aaaaccacag	ctcgcagcgc	catcgcagaa	gcgatagccg	ccggtcatcg	tgccctttgt	180
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cacttcgact	gggttcacac	catcgatcgt	ctcgcgtatc	ctaccggttt	gagcgcaccg	360
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cagtttgccg	tagcacagca	aatggctgta	gcatttgagg	cgtctaaagc	cgcctatgac	600
acggtagaca	cgtttctctc	gggcattgct	gatgatatgc	aagccgcgat	ggcgcgagcg	660
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<210> 4215

<211> 585

<212> DNA

<213> Enterobacter cloacae

<400> 4215

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atcatgagct	gggttaaacg	gggcgcgtag	ccggtggagt	acgcgttgat	tacagtcaca	420
gaacccgttg	tcgctccaat	ctgtagcctg	ctgcctgcga	tgggcggaa	cgactttctca	480
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<210> 4216

<211> 1173

<212> DNA

<213> Enterobacter cloacae

<400> 4216

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<210> 4217

<211> 1344

<212> DNA

<213> Enterobacter cloacae

<400> 4217

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<210> 4218
 <211> 828
 <212> DNA
 <213> Enterobacter cloacae

<400> 4218						
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<210> 4219
 <211> 396
 <212> DNA
 <213> Enterobacter cloacae

<400> 4219						
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caagatctaa	aagaacgcac	tagatgcaca	aatactgagc	agctgggttt	catcgcgcgc	240
ttgaacatca	cgctgaactc	gactcaggaa	aaagcgaaag	cccgcgatta	cgccgcaagc	300
atggagcagc	gcattaaaat	gctccagcag	accatagaac	aggcattgct	tgatcaaggt	360
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<210> 4220
 <211> 693
 <212> DNA
 <213> Enterobacter cloacae

<400> 4220						
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catgattgcc agggcggtgga ggtattaccc gtagagaaat gggatgtgcc gttgccggcg 660
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<210> 4221

<211> 1041

<212> DNA

<213> Enterobacter cloacae

<400> 4221

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<210> 4222

<211> 1158

<212> DNA

<213> Enterobacter cloacae

<400> 4222

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<210> 4223

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 4223

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cagcttacgc tccgcgcgca taaccgcgta gtgcggggcg aggcgaccta ccgctgcggt 540
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<210> 4224

<211> 708

<212> DNA

<213> Enterobacter cloacae

<400> 4224

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<210> 4225

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 4225

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<210> 4226

<211> 1389

<212> DNA

<213> Enterobacter cloacae

<400> 4226

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<210> 4227

<211> 1032

<212> DNA

<213> Enterobacter cloacae

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<400> 4227
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ccattcaacc tccggcaacg tcatctgctg gacgagcgcg cgtgacagt cagtgcctc 540
catctctttg tgggtcggtca agacgcctcg ttcttccgt tcagcgcgcg ccttgaaatg 600
gtgcgcgcg cgttgccgca tctgcgaac ttggtggtgc gtaagcgctc ccagtlacatc 660
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tgggagcgga tcgacgtgct gatcttccgg gaatttatcg ccccgcgctt gggcatcaat 780
cacgcttca teggctcgga cgcgttctgc gatatacc cccagatcaa ccagacgctg 840
cacgacctgc tggcctcgca tattgacgtg gtggagatgc cgcgcataca gggcacccgc 900
aacgcacttt cggcctcgga agtgcccgct ttactcaaga cccagcagtt ttcccgatc 960
cgggagattg tcccgactc caacttcgcg caactcgaag cacattatcg tgcgagtgcg 1020
gaagtcgcac aa

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<210> 4228

<211> 903

<212> DNA

<213> Enterobacter cloacae

```

<400> 4228
acaggcaatc aactcggggg cgtgaaatg agcaaatcc gcgcagtat gctgttctg 60
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tttgaccttg agaacgcgct ggcctgcgc gagaagaaca ccgcacgat ctctggtgtc 180
cacggtttgc agcacccgat gtatcagat atcgaaacgg tgggtcgctat taaccogctg 240
agcacgcgct ttggcctgct ggatctggag gcgcgctgc gcgcggcgct ggacgtgata 300
cgctgcgca aaacgcgac ccggagcagt attacgagc tggaaaggca cctcagcgct 360
atcgagcagg cgtgcggcgc cgaggtgggt tccaccgcgc tgatggcgcc gattgaatcg 420
gccattggcg tcatcaacgc cgtgcgagtt gccgcagct ccccgcgct gatcgcaat 480
gcgctggcgc cctttgacta cgtgatggac atgcagacgc acgtcgcgca cggcacccag 540
ctgtttctacg ccgctgcgcg cgtgctgcac gcgcgcgcgc cggcagcgat cgacgccttc 600
gacgtgtggt ggtcagacgt taacgatgag gcggggttcc tgcgcgaaat cgattctgatc 660
cgcaagatgg gctttaacgc caaatcgctg attaacccgc gccagataga cctgctgcac 720
aacgcctacg cccgcacacg ggaagaagt gaacacgcga aacgggtgat tgaggcgcca 780
gaagaggggc agcgtaaocg cctggcgctg gtgtcgctca acggcaaaat ggtggatgca 840
ccgattatta accacgcgca ggtggcgctg gagcgcgcg cggcctccgc cgtgcgctcg 900
taa

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<210> 4229
 <211> 621
 <212> DNA
 <213> Enterobacter cloacae

<400> 4229
 gttcacgcac aaaaatcgctc gggatgatccg ctaccgcgac ggcagcgtga tcgacactgt 60
 gcgcacaggtg aagggaagaa tatgacttta gcgacacccg tgcggggcggg tgtcagcctg 120
 gaggaactcgc tggcggcgcaa agagcgcgcgc gcagcccgcc aggcgtgactg gcttacgcac 180
 tatacaacaac cggatgatctc cctcaccgtg gtcacgcccgc gggaaatcaa agcacagcctg 240
 cgctacccga acacacatggg gtgtggcggtta cagatgtgccc accagctgct gtgggaaaaac 300
 cgctggcgagg tgcctggaccg cctgggtgctc tggctaacca ccggacactga agcattgtgg 360
 tgcgtcgcgc atccggcgccg ggaatcaaaa gcgcactgtg cagaactgga gcagacgcac 420
 cgcgtcgcga gactgtggga tctggacgtg atctgcctcg aaaacggcct cgtggggcgt 480
 cagtcgctgg gttaacacat cagacgctgt ctgattttgc acgagcccgcc ccacgctgtg 540
 tcccgttcgc gccaccatcc cgttgagcag gtggtttccc gcgtggagaa gatgatcgat 600
 gactgggttg ctcgcgacta a 621

<210> 4230
 <211> 771
 <212> DNA
 <213> Enterobacter cloacae

<400> 4230
 ctttggataa tgcccgtttc ccgaacattc tcacaagcag acaactcttt tatgaaaaac 60
 gaactcattt caccgggaatt tgatgaaaaa ggtcgcgcgc tgcgcgctat tcgcagcttt 120
 gtccgcgcctc agggagcgcct gacaaaaaggc cagcaaacac cgctgggacaa ctactggcgc 180
 gctgatggctg ttgagtctcag cgagcaaacgc ctgactctoa ccgactctgt ttggccgcgac 240
 gcgcgcagtga cctcggagat cggctttgtg atgggcacct cgctgggtcac tatggcgaaa 300
 gcgcgcgcggc agcagaactt cctcggatatt gaagtacatt ccgcggcgct gcgcgcgtgc 360
 ctggcacaacg cccatgaaga gggcgtttgag aacctgcgcg tcatgtgtca cgcagcgggtg 420
 gaagtgtctc acaaaatgat tccgtgacat tctttgaaca tgggtacact ctttttccct 480
 gacccatggc acaaaagcgc tcataataaa cgcgcgtatgc ttcaggcacc gttttgcgag 540
 ctgggtgaaaa gtaagctcaa gctgggcgcgc gttttccaca tggcaaccga ctgggaacct 600
 tatgcgggaac atatgctgga agtgaatgctg tccctggagc ggtataaaaa tcagctcgaa 660
 agcaacagcat acgtaccgcgc tccggattca cgtccgtgta caaaatttga acagcgtggc 720
 catcgctctt gtcacggcgt atgggactta atgttcgaga ggttgaaaaa a 771

<210> 4231
 <211> 1998
 <212> DNA
 <213> Enterobacter cloacae

<400> 4231
 tacaaaagagt tgaggttcgc tatgtctgac gacatgtctt cgttttcgcc ttctgcagca 60
 ggcgaacagc gtgtactacg ttctatgcag gagggttcga tgaactccca ggaagccagc 120
 aagatgctcgc gcaactacaa tattgcctcg tggggcaata actactacga cgttaacgag 180
 ctgggcacac tcaagtgtctg ccgggatccg cagctcccgag agcgtctcgt ggatctcgct 240
 aaactggtga aaacccgtga agcgcaggggt cagcgtctgc ctgactgttt ctgcttccgc 300
 cagatcctgc aacatcgctc gcgttctatt aacgcgcgct tcaaacgcgc gcgggaatcg 360
 tatggttata acggcgacta tttcctcgtt taccgatca aggtcaacca gcaccgtgc 420
 gtgattgagt cccgtgatcca ctccgcgag ccgctggccc tgggaagcgc cctcaaaagc 480
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 tataaagact gcgaatacat tctgttcggca ttaattggcg agaagatggg ccacaaggctc 600
 tatctggtga tcgagaagat gaccgaatcc cgcactcgtc tggaaagaggc cgagcgtctc 660
 aacgtgatcc cagcgccttgg cgtgcgtcgc cgcactggct cgcaggggttc cggtaaatgg 720
 cagtccttcgc cgggtgaaaa atccaagttc gcctcgcgag gcaaccaggt gcttcagctg 780
 gtggaaaatt taacgcgagc cgttcgtctg gacagcattc agctgctgca cttccacctc 840
 ggctgcgaga tggccaaatc tgcgcacatc gccaccggcg tgcgtgaatc ggcacgtttc 900
 taactgtgagc tgcataagct cgcgcgtgaat attcagtgct ttgacgtggg cggcggcctg 960

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ggcgtggact acgaagggac ccgctcgag tctgactgtt cggtaaaact tggcctgaac 1020
gaatatgcca acaacatcat ctgggagatt ggcgatgcct gcaagagca cggcctgccg 1080
caccocagcg tgatocaccga atccggccgc cgggtocagg cgcaccataa ggtactggte 1140
tctaacaatc ttggcgttga gcgtagcgaa atcaccgaag ccacgcctcc ggcagacgat 1200
gccccacgtt cctcgaaaag catgtgggaa acctggcagg agatgcacga gccggggcag 1260
cgtcgttccc tgcgcgaatg gctgcacgac agccagatgg acctgcacga tatttcacgtc 1320
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aaccacgcgg ccgaacgcgg ccgcgtgctg ctggacatca cctgttactc ggcggcgcg 1620
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ccgggagaacc cgcacatgct gggcttcttt atggtggggg cgtatcagca gatcctcggc 1740
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agcgtggagg ttgagctgtc cgacgaaggg gacacccctg cggacatgat cgaatacgtt 1860
cagctgacgc cgaaaaaact gtcacccag ttccgcgata aggtataaaaa caccggtctg 1920
gacgatgcct tgacgacgac gttcctggaa gagtttgaag cgggtctgta cgggtacacc 1980
taccctggaag atgagtag

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<210> 4232
<211> 438
<212> DNA
<213> Enterobacter cloacae

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<400> 4232
tcgattaaca aattcgtcac attgtcgctt gacgaacat tcatcgcttt tatattgacc 60
gtattaaata agaaaacagag ttccatatac gaaacaaaag cctggaggat cgtgatgagc 120
tggatagggc tatgtgacgc agagcaagta cagggaagatt tcccttttag cggcaacgctc 180
gacggtaaaa agacgcgggt ttaccctgac gacggtgaat attacgcctg gaggagcgtg 240
tgccccacgc cctatgccct gctgagtcag gggttcgtgg aagacggcaa ggtggaaatgc 300
ccgctgcagg ccctggcgtt cgaagtcaaa accggccagt cctgtcagcg ccccggagga 360
cgcaacctca accgataccg ggttcgggtc ttgaaaacc agattcagat taccctcgct 420
gaggagaccg tggcatga
438

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<210> 4233
<211> 1116
<212> DNA
<213> Enterobacter cloacae

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<400> 4233
accgggtgag catgcacgac cagcaggggc agccgtggag cgacgccagc ttccgggcat 60
tcttacaggc taacgctac tgaggggcaac gcgatgacga cgacctaca atctatctg 120
gataaaggcc tgcgtggcct crggtatccg gtgctggcga gctgggaagt gcagctcgcc 180
ccggtgggca tcacccgcct gggcgagcag attgtggctt ggcgcaataa agatggccag 240
gtgcaggagc tggaggaccg ctgcccgcac cggcgccgcg gctctgcgat gggctggaac 300
ctcggggacc gcattgcctg ctggtataac ggcgtagagg tggcgggcaa cggcgagggt 360
aaaagcgtac ccgccttgga taaatgtccg agcagtcgct gcgcagctat 420
agcgtgcagg aagcgcacgg ccgcatcttc ctctggtttg gcgtcacgcg gacaccagag 480
ccgacgaaac tgaccttccc ggacagactc gccgatacgg acagcttcag caacttctc 540
tgcacccgag cgtggaatgc caattaccag tacgcgtgg aaaaagctat ggaaccgatg 600
cagcgcaact atctgcaact ctctgcgcac cgtatggcgg aaggggatcg caaggccgag 660
atggtgctcc agccgaccaa aaccggtttt attttcgaga agaaaggcca gacggcgctc 720
aattttgact ggggtggagt gggcaacagc ggcacctgct ggatgcgctc ctccattccg 780
tacaagaagc gcttcggggc gggcgccac ttctttatcg tggcagtggt ggtgccggaa 840
gataacgaca actgcccgct ctctctctgg cgcattcgcc ggggtgcaggg cctgcagcgc 900
gatattgtgc gtttcatgta ccgaacccgt ctggaaaaaac tgacctggga agtctggag 960
caggacccgg tgggtctgta aagcctggcg ccaaacgcgc gcgatcatga gtacctgtat 1020
cagcagcagc cgtgtcttcc gcgctcgcc gcgatgatgc aaaaaggccg caaagacgag 1080
ctggcgatgc gtgaagcaca gcaaggagcc gcctga
1116

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<210> 4234

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<211> 552
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4234
 gacgttactg aggagagtgt catgactgat tcaatcgtaa ccaacaaaa aggcatcaaa 60
 cctgaccatc tgacgatgga agagtgggtc gagtcgcgca tcgcgcgctt cgaaggccgt 120
 aaatagcagt ggaacgcgct gaagtccag gccgattttg atccgaaata tcgcgcggcg 180
 cagatgcgct acatcgccac cggcgcaacc ggctgtggca acgacaccaaa taccgtgcag 240
 ggggaccatt ttaccttttc caccatgggt ctgcgcgcga agtcgcaagg accgtgcac 300
 ctgcacgacg acgtggaaga ggtgtttctc atgctcaagg ggcatgatcc gctgatgatc 360
 caggacggcg acaactacac cgaacccgtg ctgcgcgagc gtgacctgat ctccgttccg 420
 ccgggcatct atcgcggcct gtttaaccac ggtgaagaag aggcgtgatg gtgcgtcatg 480
 ctggggacca ataagcggga aatcccgacc tatccgtccg atcatccgtt ttcctaaagt 540
 aagcggaact aa 552

<210> 4235
 <211> 780
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4235
 gggggcatga tgacgggttt togtgaacag ggaagcggca ttcgctgat gctgctgcac 60
 gggatcagct ccggcgccgc ctcttgccac aagcagatgg cgtgaaacgg ttttcgctgt 120
 ctggcggtgg acatgcgggg ctatggcgaa agcccgatgc tggccgtagc cggcgcaaac 180
 gcgggggatt acgcgcagcg gctggcgccc atgctggatc gcgcgcgtgt ctggcaggga 240
 gtgctgtctg gcctatccct gggggcgctg gtggccagcg cctttgcggc aaagtcccg 300
 gatcgcgtca ttcatctggt gctggccgac gcggcgagc ggtacggcaa tgccgcgcgc 360
 gagcagcggg agcaggtotg gcgcaaccga gagcagcaga tggcgctggg ggcgaaatc 420
 ctgcgccaga ccgcgcggcc gaagctgctg cgcggcgccg cgcgcggcga agtatcgcc 480
 accgtgcggc cggcgatcgg ggtgctgcgc ccggaaggct acctgtccgc ctctgtgatg 540
 ctggcgcatg acgacatcca cggctggcgt aagcgttatt ccggcaagtt tgaagtctgg 600
 tgcggcgagc aggatgccat caccagcgg gagctgtgtt agggctctgg gctgcgctac 660
 ggcatgcgt ttatcgccct tcgcgagccc ggccagccca gctatctcga taacgacggc 720
 tttttcaacc aacagctttt acgcattaac gaagaggtgc gcgatgaatg cacaatttga 780

<210> 4236
 <211> 1185
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4236
 gaatcaacga gaggattcac catgtctgta attaagatga ccgatctgga tctggcaggt 60
 aaaocgcttt tcattccgtgc ccatctgaac gtaccgggta aagatggcaa agtgaaccagc 120
 gacgcgcgta tcgctgcctc tctgccaaac attgaactgg ctctgaagca gggcgctaaa 180
 gtgatgttca cctccacact gggcgctcca actgaagcgg agtacaacga agagtctct 240
 ctgctgcggc ttgttaatta cctgaaaagc aaactgtcca ctcgggttcg ctctgtgaaa 300
 gattacctgg acggcggtga agttgcccga ggtgagctgg ttgttctgga aaacgttccg 360
 ttcaacaaag gcgaaaagaa agacagcaga accctgtcca aaaaatacgc tgcgctgtgc 420
 gacgtattcg tgatggatgc attcgttacg gctcaccgtg cgcaggcatc taccacaggt 480
 atcgtgaaat atcgcagact cgcctgtgca ggtccgctgc ttgctgacg atcgaacggc 540
 ctgggtaaa gactgaaaga acctgtctgt ccaatggctg ctatcgttgg tggttctaaa 600
 gtttttacca aactgaccgt actggaattc ctgtccaaaa tgcgtgacca gctgatcgtt 660
 ggcggtggta tcgcgaacac ctctgtgtct gcgcaaggcc acaacgtggg taaactccgt 720
 tacgaagcgt atcgtgttga cgaagccaaa cctctgtctg gtacactgtga tatccggtt 780
 ccaactgacg ttccgctggc aacggagttc tccgaaactg ctaccgcaac ctgaaatct 840
 gttaacgaca tcaaatgatga agagcagatt ctggacactg gcgacgtttc tgcacagaaa 900
 ctggctgaaa tcttaaaaa cgcaaaaact atcctgtgga accgttctgt cggcggtgtc 960
 gaattccgga acttcccgaa agggactgag atcgtggcta acgcaatcgc agcacagcaa 1020
 gcgttctcta tcgcagcggg ttgtgacacc ctggcagcaa tgcgactcgt cggatcgtt 1080
 gacaagatct cctacatctc cactggtggc ggccgattcc tgaattcgt ggaaggcaaa 1140

gtttctgccag cagtagcaat gctcgaagag cgcgctaaga agtaa

1185

<210> 4237

<211> 855

<212> DNA

<213> Enterobacter cloacae

<400> 4237

atggaacaac	ttgatgtgtt	agacagcctc	aataacgcgg	gtaactggct	ggtgcgcaac	60
caggcgcctac	tgctgagctta	cgcgcgtgaat	attgttgcgc	ctattgccat	catcattgtc	120
gggatgatgc	tgccgcgtat	cgtttcgaa	gctgtcaacc	gggtgatggt	cgcacgacac	180
attgatgcca	cagtcgcgca	ttcctctccc	gcgctggtcc	gttacggcat	tatcgctttt	240
acgctgattg	cggcgctggg	gcgtgtcggc	gtgcagacgg	catccgtcat	cgtgtgtctc	300
ggtgctgcgc	gtctggccat	tggctcggca	ttgcagggtt	cgtgtgtctaa	cctggcggcg	360
ggcgatttgc	tggtgacctt	cgttcgcttc	cgttcgggtg	agtatgtgga	tctggcggtt	420
attgccggta	ccgtgttgca	ggttcagatt	ttctccacga	ccttcgctac	cgtggatggt	480
cgcattgttg	tagtcccgaa	cgggaaaaac	attgcgggca	atatcattaa	cttctcccg	540
gagccgtg	gtcgtaacga	gctgatcctc	agcgtggcgt	acgactccga	tatcgatcag	600
gttaagtctc	tgattacca	catcattgct	tcagatgacc	gtattctgaa	ggaccgcgag	660
cagaccgttc	gctcgaatga	gctggcgcg	tcactatatta	attttgtggt	gcgcatctcg	720
agcaaaaaga	cgcgattctc	aaacgtttac	tgggatgtgc	tggagcgcat	caagcgtgat	780
ttcgatgtca	acggcatcag	cttcccgctac	cgcgagatgg	acgtaaaact	caaaaaagtc	840
aaagaagcag	agtaa					855

<210> 4238

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 4238

gccctgttaa	caggcgactc	ttcgcaacat	ggaggaatga	cagtgaaagt	taaggatgat	60
gccctggcgg	cattagtaag	tttaggtg	gtgcggtgc	agcgcaatga	actgcgcaac	120
ggcccgca	ttgtcacttc	aggcaccgca	agcgtggatg	cgttacggga	tgttgcaaac	180
ctggcaattg	aagtgaacgt	ggcggcgaaa	gatgtctgct	cgcgcaagaa	acaggcgacg	240
gatcgtgttg	cgcaataact	ctctttcctg	gaacagaaag	gtgtcgcgaa	aaaagacatc	300
agctctcgga	acctgcgtac	ccaaccggat	tatgactacc	agaacggcaa	aagcatcctg	360
aaagcgtatc	gcgcggtgcg	tactgtagaa	gtgaccgtgc	gccagcttga	taagctcaac	420
ggatgtctgg	atggtgcgct	gaaggcaggg	ctgaacgaaa	ttcgttccgt	ctcgtctggc	480
gttgcgcaac	cggagaataa	taaaacgcaa	gcgcgtaaag	cgcgtattga	tgatgccatt	540
catcagcgcc	agcagctggc	atccgctttt	aaaagcaagg	tcggctccgt	ttacagcgtg	600
cgataccacg	tttcaactca	ccagccaagc	cagatggtgc	ggatgatgaa	ggcggaacgc	660
gcgcggtttt	ctgctcagga	aaactacgag	cagccaacca	ttcagttcga	cgatcaggtt	720
gatgtggtgt	tccagctgga	gccaaactcaa	actcagcaaa	ctgaggcgcc	taaggcgacg	780
tag						783

<210> 4239

<211> 384

<212> DNA

<213> Enterobacter cloacae

<400> 4239

cgaatgcgta	tgtctatata	gaacgaaatg	cctggttaca	aggattttaa	ccagtactctg	60
aaccagcagg	gagtcgggtt	gaccctgcc	gaaatgcacg	gtctgatcag	cggcatactg	120
tgcggcgaaa	acagcgacag	ctcatggcag	ccgctgatcc	acgaacctcac	caacgaaagg	180
ctggcgtttg	gccacgaact	ggcggaagcg	ctgcgtataa	tgacgcggcg	aaccagctgat	240
tccctggaaa	acgatggctt	tctttttcac	ctttatctgc	ctgaagcgca	cgtatgcagc	300
gtcttcgatc	cgcgcgatgc	gctcgcgggt	tgggtaaac	actatcttct	tggcctgggg	360
gtaaccacaac	ctaaactgga	ataa				384

<210> 4240

<211> 600

<212> DNA

<213> Enterobacter cloacae

<400> 4240

tcttcgggga	ctttatcgcc	cggcgcgctg	gcatacactca	ccgcttcac	ggctcgggagc	60
cggttcgcga	tatcaaccgc	cagtaacaacc	agacgctgca	cgacctgctg	gctcgcgata	120
ttgacgtgg	ggagatgccc	cgcatcaagg	ccaccggcaa	cgccatttcg	gctcgggaag	180
tgcgcgcttt	actcaagaca	cagcagtttt	ccggatccg	ggagattgtc	ccggactcca	240
ccttcgcga	cctcgaagca	cattatcgct	cgagtgcgga	actcgcataa	ctatcaggaa	300
tttatcatga	atatctgaag	ggaggcgctg	gcccgaacgc	aggagtccag	cgacctgatg	360
gtgaaaattg	ccccgcctca	cggtgagctg	gagatcgcca	tcacacgcga	agtgattaa	420
cagtttgccg	agcagattcg	ccaggtggctc	aacgacacat	tgcgcgccat	gaacgtgcac	480
cagggattaa	tcattattga	agacaaagg	gcgctggact	gtgtgatccg	cgctcgctcg	540
caaagcgccg	ttctcgctgc	gcaccaatga	caggccatca	actggggggc	gctgaaatga	600

<210> 4241

<211> 1668

<212> DNA

<213> Enterobacter cloacae

<400> 4241

ttgaggcgcc	agaagaggcg	gagcgtaaac	gcttggcgct	ggtgtcgctc	aacggcaaaa	60
tggtggatgc	accgattatt	aaccacgcgc	agtggtgtct	ggagcgcgcg	cgcgccctccg	120
gcgtgcgctg	gtaaggatga	cataatgaat	cagacagaa	ttctccatatt	gaatttcccc	180
catctgcggg	atctgaaacc	ctttgatacc	gcccacgcgc	cgacgcgctg	gtctggcgagc	240
agcgaggcga	agcacaagcc	caagctctgc	gctctctatt	aagagcgcggt	taagcgcgctg	300
ggcttgcagg	acgggatgac	catctccttc	accacgcctc	ttcgcggaag	cgaccgggtg	360
atcaacaccg	ctgtggcgct	gctggcgcg	atgggtctca	aaaatctgac	cctgggtctcc	420
agctcgctga	tgacctgcaa	cgacgcgctg	atcgagcata	tcgaaaagcg	cgctcatcacc	480
cggattttaca	ctccggcat	gcggcgagcg	ctggcgagtg	ccatctctca	cggtcgatg	540
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atggaagcag	ggatgaaggt	tgtagatata	aacgcgctgt	atgagcgagc	gatttcgtgt	1560
acaggcgctac	cgaaaccgat	tgaagtccac	gacaaaatcg	tcgggggtgat	ccgtaccgcg	1620
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<210> 4242

<211> 807

<212> DNA

<213> Enterobacter cloacae

<400> 4242

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aacggctcgc	atccgggatat	ggaccaatgc	ttgtttgtcc	gcagcattat	ggcgattacc	180
cggtgttttg	cccggttttg	ggaaatgggt	gaagcacatg	cgcccaaac	tgccgatcgg	240
cagttgcgga	ttctccgccc	aatgggaatg	gctcgcgagc	aggcaatgta	cgccgcacgc	300

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ggcggggttaa ataccacaaa gggcggtatt tttgctcttg gtttgccttg cttcgccgcc 360
ggctgtgtga aaaatatctc tgcgatagc ctctgttttg aggttaagca catctgtcgc 420
gggctggttg ccggggagct ggcggggcgc agcggggcag caacggcggg ggagcgccag 480
tttcagcatt acggcttaac cggggcgcca ggcgagggcg agagcggtt tgcgacgggtg 540
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cagggctacg cgcgggaact gctggctaac tgctgggata cgagggcggt gcttaagatg 720
gataaaggcac tgattgaacg aaacctgagt ccggggcgca gcgcggattt gctgtcggtg 780
gggtgggtgc tgtctgctat aaaatag 807

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<210> 4243

<211> 984

<212> DNA

<213> Enterobacter cloacae

<400> 4243

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tctatggatg tggagaatat tgtggccctt agtgtaaagc ataacgtctc cgatctacac 60
ctgtgcagtg attcaacctc gcgctggcgc aggtcaggcc gtcttgtaac tgcgcctgtt 120
ccgccccggg atgtggaggc gttattaaaa gcgtggctca acgatgaaca gcagggcgcc 180
tgggtgggcaa atgggcaggt tgattttgcc gtlaccctcg cagaccgtca gcgcctgcgc 240
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tgcccccgag tctctgcgtt aggcgtgcgc cgcgcgatcc cggagctttt gtccaatgac 360
aatggcctga tctctgtcac cggcgccacc ggcagtgagg aatcgaccac cctggccgcg 420
atggctgatt tctccaatca ccagacggac gggcatatc tgacctgaac agatccgggtg 480
gagtttatgt acacagtgga acgttgccgt atccagtagg cctgcacagc cctgcacagc 540
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ggtagctgcg gcgacagcga gacgatacgc ctggcgctga cggcgcgcca aaccggccat 660
ctgtgtgttg ccacgctgca cacgcgcggt gcgcgcgagg cgatcgagcg cctggtcgat 720
acctttccgg cgaaggagaa agatccggtg cgtaatcaac tggcgggagg cctgcgtgcg 780
gttctgcgcg agaagctgcg tcaggatgtc caggggcgcc gcgtggcgct gtatgagcta 840
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ggcattatct aaacggggca gcaggcgagg atgcagaact ttgagcagag tctggcgagg 960
cgacggggcg agggggcggt gtag 984

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<210> 4244

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 4244

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ttctaccaag gcctacagga ttttgacctt ggcagttctga gtgttaactg gtatggatgg 60
attaaactct ggacgtctat tttaggtcac ttcttcaccc gatttccagt tttttttgac 120
tcacctctca ttgcgttgaa aacgctgctg gaaatttttc ctgacgacgc tggcaacctg 180
cgcatttttg ttttgcgttt tagcgacctt ctgcgtataa aacggcgccg cgggctcata 240
taa 243

```

<210> 4245

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4245

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acaaggggcg tcttggtaat acaggagttt tctcgtggtt tcgcccgaac ttgtcataca 60
gagttcggat acgtgtttta caatgatatg aataagaaac cggctgcacg gtctggatgt 120
cagcatactc tctcgtggaa tggagccgtt aatgggttgt tatcccgcta taacgtgcgc 180
atagtagtga actgttttac acttaataca aagagttga 219

```

<210> 4246

<211> 1227

<212> DNA

<213> Enterobacter cloacae

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<400> 4246
ccacgacacg cgcgcgcagc agaaaaagcc ggaggcggtg tgacatcgcc cattgtcatt 60
atcgccggcg ccagtcagcg cgcgtggcg cgaaaaaccc tgcgtgacga gggttcgac 120
ggcgagattt gctgtgttagc ggaagaggaa tgggatttct atgagcgccc gccgtgtca 180
aaagcgtctc tcttggaacc ggaacggcg cttccaagge tgtttaccga cgaggtgcag 240
caggcgctga acctgacctg gtaccgacgg ctgcgcgcag aatctgtcga tgcggttgaa 300
aaaaaagctc ttcttagcaa cggcgagcag cttagtttaca acatcctttt aatcgctacc 360
ggcggtcgcg cgcgcctgcc ttgcgagcg atccgcaggt atccgcaggt ctataccctg 420
cgccactggc aggaacgcga cgcgcctgaa agtcgcctgt cggaagtca caaactcgcg 480
attatcggtg cgcgctggat tgcctttgag attgcgctt ccgcgcggaa aagcggcggt 540
gcggtcacgc tgttcgagca gcagcctgog ctgtgcattc gctcggtag cgcgaggtg 600
tcgcagcgcc tggagggcat ccaccgcgag cagggggtgg agatccgtac cgcgtcgcg 660
gcgctggagc tggaggacga cggcgcgctg ccggtgcctc actgcgacgg caaccgtgaa 720
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gcggggctga aaaccggcg cgggatcggt gtggatgcc agggacgcac ctcggtaccg 840
ttcatctttg ccgcaggaga tgcgcccag caccatcact acggctgtg catccagtc 900
tgggctcttg cccgaatca cggggtggcg acggcgaaa ccatgtcca tccgatgat 960
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acattttcac tgtgtgctac gcgatag

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<210> 4247
<211> 987
<212> DNA
<213> Enterobacter cloacae

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<400> 4247
agcgttatcc cgcgcgtttt gaaagtctggt ggcggcgaga ggatgccatc acccagccgg 60
agctgtgttc ggtgtctggcg ctgcgcctac gcatgccgtt tategcatt ccgcaggcgc 120
ggacgcccag ctatctcgat aacgacgcgt tttcaacca acagctttta cgcattaaag 180
aagaggttgc cagatgaatt acaaatgtac gggcgcgtag cggtagtcac cgcggtttct 240
tcggcgattg gctttgaaac gctgcgcctg ctgctggggg aagggcgcaa agtcgccttc 300
tgcggccgtg acgaggaccg gctgcgcagc gccatcgca cgtctcaaaa cgaalttccc 360
cacggggaga ttttcgcttt ccgctgcgac gtgctgaatg ccgacgaagt tcaggccttc 420
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cagcgccgct ttgaaagcgc ggcggataaa agccagagct ggccggagtg gacggcgag 840
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tcggcgctc tctgcgcga tctgtaa

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<210> 4248
<211> 780
<212> DNA
<213> Enterobacter cloacae

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<400> 4248
ggacacatca tgaaaaaggt aatgttgatt ggtttaggcg ccatggcgca ggcggtgatt 60
gagcgctcgc ccgcgggtgt ggcctatcgc cgcgcgcgtc tcaaccatccc 120
gccattccag accagtttgc cgtatcggtt gaggcgctga cgtcgcgat ggctgcgca 180
caaacgcggc atctgtgtct ggaatgcgcc agccaggagg atcggggaa 240
gagatcctgc gtgcgcgctg gcatctggcc atcatttcca ccggcgcgct ggccgacgc 300
gcgctggagc agcgtctgct cgcgcggcgc ggaataactg cctgtcttcc cgttgcggtg 360
gcgggtatcg acgggctgcg gccggcgaaa gaggcgcgcc ttgagcgctg caccatccag 420

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tcgcgcacaaa	gcccgccag	ctggcgccgc	agctatgcgc	agcagcttat	cgatctgaat	480
gcggtgtcag	agccaaaggt	ttctctcgag	ggcagcgccc	gcgagcgccg	gcgcctgttc	540
ccgcgcgaacg	ccaaacgtgc	ggcgaccgtg	gcgctcgccg	gcgctcgagat	ggaggacacc	600
cgcgctgcaac	tgatggttga	cccgcaacg	aaacgtaaca	ccacacagct	cgatgtcgaa	660
ggattattccg	cggaattcca	cttggaaactg	agcgagactgc	cgctggtctc	taattcctaaa	720
acctccacccc	tgccggaact	gagcgcggtg	cgcgctgccc	gcgagctggc	cctgagctga	780

<210> 4249

<211> 1479

<212> DNA

<213> Enterobacter cloacae

<400> 4249

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agtcctggatg	acctggaggag	ggcggttagcc	gcgcgagagc	gcgcctggcg	cgatcccgca	180
tggtcgtaaca	gtctgcgcga	catgcgcgcg	aaagatcctgc	ataaaagtgc	cgatcttatt	240
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ctggggccgcg	agaagggtat	ccaggggcgt	aaagcctgga	tgcaacaaaa	gagcatttat	1440
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<210> 4250

<211> 2184

<212> DNA

<213> Enterobacter cloacae

<400> 4250

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cttttttccg	gcgtagccca	aaacgcgctg	tcgtcaaggc	catggccttt	aaacgtccga	180
ctcggagtta	aaatgtcttc	acgtaaaagag	cttgctaagt	ctattcgtgc	gctgagcatg	240
gaagcagatc	agaaaagccaa	atccggccac	ccggcgcccc	ctatgggcat	ggctgacatc	300
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gagctctgcg	cagctgaaca	gctgtttgaa	gagttcggtc	tcacggttga	aaacgttgct	2160
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<210> 4251

<211> 708

<212> DNA

<213> Enterobacter cloacae

<400> 4251

tattatccat	ttcctctaata	gacgttcccg	cagtatatgc	tgcctccagg	acaactctgc	60
gagaaattacg	tcaatgttact	ttattatatt	cagggggttg	tgttaggtgc	ggccatgac	120
cttccctctg	gtccacaacaa	tgcgttctgt	atgaaccagg	gcattccgac	ccagtatcat	180
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ggcgccagcg	ccctgttgat	gcagtcgcgc	tggctgctgg	cgctggttac	ctggggcgcc	300
gtagcgtttc	tgctgtggta	cggtgttggg	gcctgaaaa	cgcccatgag	cagcaactct	360
gagctggcga	gcgcgaaggt	gatgaagcag	ggcgctgga	agattatcgt	caccatgctc	420
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gccaaagcac	agcgcatatc	caataccctg	gtggggctgg	tgatgtggtt	tattgccttc	660
cagctggcga	aagaggacat	tcatcacgta	cagggaattg	tcaactaa		708

<210> 4252

<211> 696

<212> DNA

<213> Enterobacter cloacae

<400> 4252

tgcgcctctga	gttttcacac	cacaggcaaa	acgatcatga	cgcaggatga	actgaaaaaa	60
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gggtccacgct	cggcacactt	tatcgatcgc	ctgggcacga	tgaaggggca	gatcaggggt	180
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attccacggc	tagtgacggt	agggctattc	gtccaacggt	gcgcggatgt	ggcgatgatc	660
ggcacgcgctg	acggcgtgaa	aaccatcgta	aaatga			696

<210> 4253

<211> 1233
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4253
 atggcacaagg taccactgga gaaagacaag attaaattcc tgcgtggtga aggcgtgcac 60
 cagaaagcgc tcgatagcct tcgcgcagca ggctacacca acatcgaatt tcacaaaggg 120
 ggcgtggaac ctgaagagct gaaagcgtcc atccgtgatg cccatttcat tggcctgcga 180
 tccgctaccc aactgaactg agacgttatt gctgcgcggg aaaagctggt ggcgattggc 240
 tggtttctga tcggcaccac ccaggttgat ctgaatgcgc ccgcaaaacg cggatcccg 300
 gtctttaacg cgcgcttctc taacacccgt tccgtggcgg agctggtaat tggcgagctg 360
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 ggtacccgtg ttgacattcc tgcactgtgc gacgcgctga agcgtaaaac tctggcgggg 780
 ggcgagattg acgtgttccc gacggaacgc gccactaaca ggcattccgtt caccctcccg 840
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 caggggcgtt acattgctgc gcagtatctg caaactaact cgcagatggg ttatgtgggt 1140
 attgatattg aagcggatga agacatcgcc gagaaagcat tgcagagcat gaaggccatt 1200
 ccggggacga ttccgcgcgcg tctgtgttac tga 1233

<210> 4254
 <211> 1122
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4254
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 gagagcgcgg agaagctgat gcagctgggt gcgatgtcgg ggcagtttga acagcatatt 660
 gaagacgaca caccgctcgc ggtatgtgct ccgaccatct atcagaaaata cccggtgcgt 720
 taaccgcgat atacgatccg ccagctatgc caggagatgc acgatctcta cgtcagcttt 780
 aacgtgaagg atttacagaa ggcgatgttc cgtcaggaga gcctgcctgc cgtgtgtgat 840
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 gacgcgcgaag gacgcattgc ccgcgaaggt gcgctgccat accgcggcgg cgtgctgtgc 960
 gtggtgcctg gggaagtctg ggttgagaca gtacagcgtc acttctctgc actggaagag 1020
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 cgggacggga tcaagcggct gtatgggtac gtattaaagt ag 1122

<210> 4255
 <211> 924
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4255
 cgtctccatc ttctgtctga ttctgggcaa ctctctcgtt taagttttca ggaagaaca 60
 atgaaactcg caagcttttt ataccaggga aaacgcagct acggcatcgt tcaggccgac 120

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ggcgtgattg atttaggcgc cgcctcggc gaccgctatg ggcaccttaa agcgtctgtg 180
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aacgccatca ccttcttacc ggtgattgtc cagccgga aaatcctctg cgtggcgatg 300
aacatgcgcg acaagcgcaa ggagtttgac cagcacaacc cgccccgcac gctgtttgtc 360
cgcttcccg acacacagac cggccacaac gagccggtgc tgaagccgcg ccaatccagc 420
gaattcgact acgaaggcga gctggcggtg atcatcgcca aaggcgggga gaacatcagc 480
cgcgacgacg cctcgcccca cgtggcggtg tacagctgtt acatggacgg ctccgcccgc 540
gactggcagc acacctcggt caccgcccgg aaaaactggc ggcagaccgg ggcgttcggc 600
ccgtggatgg cgcggcgcca tgagatcccc gatccgcacc aacttgcaat cgcacactgg 660
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tccccagggt ggggtgggtaa aaagcgtaac ccgcgcgtgt ttatgaaaga gggggatcgc 840
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gtcgggctcg cggcagcgca ctga

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<210> 4256
<211> 387
<212> DNA
<213> Enterobacter cloacae

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<400> 4256
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gtgggtttctt ccgttgcctg cgttttcccg gaaggcaccg gcgttgagca gatcgatcag 180
gacgttgatg cgttcatcaa cgaggtgatc gagccaaaca agctggcctt cgacggttagc 240
ggctatctcg cgtgggaagg tctgatttgc acccaggaag tggggaaatg caccgaagag 300
catcaggcgc tggtagcgaa atggcttgaa gaccacaaac tggaagatgt ccgcgttagc 360
gaacttttctg acgtttggtg ggacttaa
387

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<210> 4257
<211> 771
<212> DNA
<213> Enterobacter cloacae

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<400> 4257
agcaagaacg gggccagcat tagctggccc attttgtctg agggagtgtt taagatgcgc 60
aaaacgtttg tggctgttgc tttaactgca atcggtatcca ccgccccatgc ggagtataaa 120
tgtagcgtca ccccgctgta tgacgtgggt gtagtccgc aaacccgtgca ggttaagggc 180
gagaatggca atctgtgtgat tacgcgggat ggcaacgtga cctttaacgg caaacccgaa 240
aacctgacgg cgcacagcgc cgagcaggcg atggactacc aggcgcagtt gctaacggcg 300
ctgcctctga tcaacgatgg cgcgctgacc cgcgttgaaa agagcccgct ggcgtcggt 360
aaaatcatca ccaagaggtg gggggagagc agcaatatgc gcaaccgcgt gacgaagctg 420
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ttccattata aggcgatgca tcaggtgcgt gccagcggtc agcagctggt gaaccaggcg 540
atggcgcgga ttctccagga cagcatcaac gagatggcg ccgaagcggt gctgaagggt 600
ggcggttaac ctttcagggt tgtactgggt agtctggggc gactgcaaac ctggtatcag 660
aacgagtggg agaatcagga agccgatttc cagcagttcg gcaaaagcgt gtgtaagcgc 720
gtggtgtcgc tggaagacag ccggaaggcg ctggtgggga cgctgaagta a 771

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<210> 4258
<211> 948
<212> DNA
<213> Enterobacter cloacae

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<400> 4258
tgtatcgact ttataagagg tcaggacatg agcaacttag gtcacagta cgataactct 60
cttgatctca acggttttgg ttttttacgc cttccgatga acttccagcg gtacgcagcg 120
cagtcgcact ggggtgatcc cggcgtaccg ttccagatgg caacgtccgg tcgcgcggtg 180
gggtcgtaact gcccgcgccg gatccgtcag gtttccacta acctggcctg ggagcacaac 240
cgcttccctg ggaacttcga catcgcgag cgtctgaacg tgggtgactg cggcgactctg 300
gtgtacgcct tcggcgacgc gcgtgagatg agcgaaaaa tgcaggcgca cgccgagaa 360

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ctgtctggcgg	cgcgtaaaacg	catgctctcc	ttcggcgggtg	accactctcgt	gacctcgcg	420
ctgtctgcgcg	cccacgcgaa	gcacttcgggt	aaaatggcgc	tggtgcactt	cgatgcgcac	480
accgacaccc	acgcgacggg	ctgtgagttc	gaccacgcga	ccatgttcta	cacggcgcg	540
aaggaaggcc	tgatcgatcc	gaacctacc	gtgcagatcg	gcacccgcac	cgagttcgac	600
aaagacaaag	gcttcacgtg	actcgacgcg	ggccagggtga	acgatcgccg	cgtggacgat	660
attctggctc	aggttaaaga	gatcgtcggc	gacatgcctg	tctatctgac	cttcgacatc	720
gactgcctgg	atccggcatt	cgcacggggt	accggtacgc	cgggtgatcg	cgccctgaca	780
tcagacccgc	ccatcaagct	ggtgcgcggc	ctgaaggatc	tgaacattgt	cggggatggac	840
gtggtgggaag	tggtctccgc	ctatgaccac	tccgagatca	ccgcgctggc	cgccgcgcgacc	900
ctggcgtctg	aaatgctcta	tatccaggcg	gcgaaaaaa	gcgaataa		948

<210> 4259

<211> 771

<212> DNA

<213> Enterobacter cloacae

<400> 4259

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gtggtgatgt	gcgacatcct	gaaggcgag	ctggccgaaa	ggcgccacgc	cctgagcgag	180
cggggctatg	cgatcgaaac	gcacgtatc	gatctggccg	atccacagtc	cattgagcag	240
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gcgacggcgc	tcggcgccaa	aaacatgctc	gattacgac	cggatctctg	ggatcgggtg	360
atgagcgtca	atgtcaaaag	caactggctg	gtgacgcgcg	ccgcgctgcc	gctgctgcgt	420
gaaggggcgc	gcattgtgaa	cgtggcgctc	gacacccgcg	tgtgtggcgc	gccgcgcctg	480
atggcctacg	tcgccagcaa	gggggcccgc	attgccatga	cccgatcaat	ggcgccgcga	540
ctgggtgaaa	agcgtatacg	cattaatgcc	atcgccgcgc	gggttaacccg	cgtcgaggcg	600
acggaatatg	tcgccgcgca	acggcatcag	ctctacgaaa	acggacgcgc	gttaaccgcg	660
gcgcgacgcg	cgggaagatg	acccggcagc	gtggtctggc	tgctaagcga	ctgtctcgg	720
ttcatcacgc	gacagctgat	cccggtcaac	ggcggttttg	tctttaacta	a	771

<210> 4260

<211> 801

<212> DNA

<213> Enterobacter cloacae

<400> 4260

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cgccgctcgc	tggatatgoc	gaaggcgacc	gcctatcgcg	tggtgcagac	gctggagtag	180
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cgtcttggtc	ttagtatac	gcctcgcgtg	gcagtcggcg	aggtggccca	gcgggtgate	300
gagcaactgc	gcgacgtgag	ccagtgcagc	agccatctgg	cgatccgcga	cgggcgccgc	360
attatataca	tcgcccgcgt	cagcgccgcc	gggtgcgcga	tcacacaggt	cagcattggt	420
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ggcgaaatcct	tcttcgcgca	cggcatctct	tccatcgtct	accgggtgta	tgaccggaagc	660
ggcgcgctgg	cgccgctagt	cagcattctg	gtgccgtcgg	aggagatccc	ccgagcgcat	720
cgcgagccgc	tgcaaaaaga	ggttcgcctt	gcggcggata	aaatttctcg	cttcttaggg	780
tatctatcac	aggccagtta	a				801

<210> 4261

<211> 978

<212> DNA

<213> Enterobacter cloacae

<400> 4261

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cgtgattttg	gctgacggg	cgatgccacg	ggccagcggt	tcaccacctt	gagcgccgcg	180

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acctcgccgc	gcattgacct	ggcggttgcc	gcacagtcgc	atctcgacgc	gctgcccgcg	300
aagctggcgcc	agcagccccg	ctttccgcgaa	gtggcgacgc	cgctgggaatg	cctcgatccg	360
aacggcatca	cgctgcccgt	gcaggtgaac	cagcagaccg	acgtggagct	taacgtcgag	420
ccaataaaac	agtggggcga	cgcccccggt	atcgacacgc	ccagccccgt	ttacgatcgc	480
gccacagcca	tcaacgtggg	gcattgtggt	ttcttcctgg	aggaagctggg	ggcggtggaa	540
aaatttctca	gcgagtgct	cggttccag	gtctcggaac	gctatatcaa	ccgcccgcgtg	600
ttctcgcgt	ggcgcgctgc	tggcgccat	cacaacctgt	ttctgctgca	actgcccgaac	660
cgcagcgccg	gccttaacca	ctggcgcttc	acgtgcccgc	atatccacga	ggatgatccg	720
ggcggtatcg	cgatgaataa	acatgaactg	agcaccctta	tggagccggg	acgtcatccg	780
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accaacgatg	attacctgac	ggaaaactgg	cagccgcgcg	agctggagca	ttccctggtc	900
tccttcaccg	agtgggcggt	ggaaggcggt	attgaccacg	acacgcgcgc	tcagcagaaa	960
aagccggagg	cggtatga					978

<210> 4262

<211> 1278

<212> DNA

<213> Enterobacter cloacae

<400> 4262

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ctggccctgag	tgctgctggc	gtttttcgac	aaaaatcagca	tcggcgcgct	cttttcagat	180
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atgggcttta	cccataacta	cacgtgatg	atgctctcgc	gtattctgct	ggcggtggcg	420
gaaggcgctta	gtttcccgct	ggccttcgcc	attgtaacgc	acaacttccc	cagcattttg	480
caggcacgcg	ccaccatgct	gtggcgctg	ggcaccocgg	tggcgcgggc	gattggtttc	540
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gcggcggtag	gcctggcggc	ggtgatgcac	ctcgacaccc	cgcttgccat	catgcccggc	1020
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gattccgggc	tgatttttct	ggcggtgatg	gcggcggtgg	gctgcgtcct	gttaactgccc	1260
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<210> 4263

<211> 1644

<212> DNA

<213> Enterobacter cloacae

<400> 4263

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<210> 4264

<211> 1035

<212> DNA

<213> *Enterobacter cloacae*

<400> 4264

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<210> 4265

<211> 1179

<212> DNA

<213> *Enterobacter cloacae*

<400> 4265

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<210> 4266

<211> 1932

<212> DNA

<213> Enterobacter cloacae

<400> 4266

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<210> 4267

<211> 1044

<212> DNA

<213> Enterobacter cloacae

<400> 4267

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<210> 4268

<211> 1614

<212> DNA

<213> Enterobacter cloacae

<400> 4268

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<210> 4269

<211> 1584

<212> DNA

<213> Enterobacter cloacae

<400> 4269

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<210> 4270

<211> 723

<212> DNA

<213> Enterobacter cloacae

<400> 4270

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<210> 4271

<211> 1953

<212> DNA

<213> Enterobacter cloacae

<400> 4271

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<210> 4272
 <211> 1776
 <212> DNA
 <213> Enterobacter cloacae

<400> 4272						
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<210> 4273
 <211> 525
 <212> DNA
 <213> Enterobacter cloacae

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<400> 4273
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<210> 4274

<211> 1173

<212> DNA

<213> *Enterobacter cloacae*

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<210> 4275

<211> 1140

<212> DNA

<213> *Enterobacter cloacae*

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<210> 4276

<211> 1194

<212> DNA

<213> Enterobacter cloacae

<400> 4276

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<210> 4277

<211> 1182

<212> DNA

<213> Enterobacter cloacae

<400> 4277

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<210> 4278

<211> 1398

<212> DNA

<213> Enterobacter cloacae

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 cattcaggcca ttaccgccct gatggaggac ctcaacgacg ggcctgcgcac ccagggcgct 240
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<210> 4279

<211> 1017

<212> DNA

<213> *Enterobacter cloacae*

<400> 4279

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<210> 4280

<211> 1359

<212> DNA

<213> *Enterobacter cloacae*

<400> 4280

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<210> 4281

<211> 921

<212> DNA

<213> Enterobacter cloacae

<400> 4281

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<210> 4282

<211> 1428

<212> DNA

<213> Enterobacter cloacae

<400> 4282

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<210> 4283

<211> 630

<212> DNA

<213> Enterobacter cloacae

<400> 4283

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<210> 4284

<211> 951

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (878)

<400> 4284

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<210> 4285

<211> 2154

<212> DNA

<213> Enterobacter cloacae

<400> 4285

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<210> 4286

<211> 315

<212> DNA

<213> Enterobacter cloacae

<400> 4286

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aacctgcatt	gcccgaagcg	ggcagccca	catacagett	ttgcagcgca	tacagcgcca	180
ttgcttaacg	agccaggtct	ccgcagcgcg	gtgaatggcc	cccgctgggc	agacattcgc	240
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<210> 4287

<211> 663

<212> DNA

<213> Enterobacter cloacae

<400> 4287

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<210> 4288

<211> 666

<212> DNA

<213> *Enterobacter cloacae*

<400> 4288

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cgcgggcgcgc acgcaacaggc cagcggcgag cagtggggtg aggcgcgtatc cagcaaaatg 480
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gccgataatc cgcgcgaggt ggcacaggca ttccattcgc aaatccgcga catctgggga 660
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<210> 4289

<211> 2007

<212> DNA

<213> *Enterobacter cloacae*

<400> 4289

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<210> 4290

<211> 492

<212> DNA

<213> *Enterobacter cloacae*

<400> 4290

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<210> 4291

<211> 1032

<212> DNA

<213> *Enterobacter cloacae*

<400> 4291

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<210> 4292

<211> 1257

<212> DNA

<213> *Enterobacter cloacae*

<400> 4292

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<210> 4293

<211> 441

<212> DNA

<213> *Enterobacter cloacae*

<400> 4293

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<210> 4294

<211> 849

<212> DNA

<213> *Enterobacter cloacae*

<400> 4294

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<210> 4295

<211> 825

<212> DNA

<213> *Enterobacter cloacae*

<400> 4295

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gctgaaaaac	tgctgctgaa	cgatgcggcc	tcattaaactg	aagtggccgc	cgggtgcggt	720
tttaaatgac	tggtttattt	ccggcaaaata	ttctcaaaac	ataccggggt	aacgcccgcc	780
gtcgggaaac	gcgggtactg	taaaagagcat	attaattccg	gatga		825

<210> 4296

<211> 267

<212> DNA

<213> Enterobacter cloacae

<400> 4296

aacggcttaa	tcacctcatt	cgacaggcgc	agcaggctgt	tacgcctgat	catctcgac	60
atcatcgccg	ggccgatgcc	gccaggcgaa	aggctgataa	tgccgttcat	gttggtaatg	120
gcggtgatga	ttttctcgtt	agcaatgata	atgcgcgaac	ggctgcccg	caggcccgac	180
ttggagaggc	tcatgcagag	gatgatattc	gggttccata	gcggacgcgc	ttcgctgaag	240
atgatccccc	ggaacggcat	gccatag				267

<210> 4297

<211> 891

<212> DNA

<213> Enterobacter cloacae

<400> 4297

gattccgctc	tcaaatTTTT	gaagaaaaata	aggtgttgga	atgtttatat	ccgaccagga	60
gacctaatga	tatcgactcc	catttcgacga	tatggggccg	cgatactcat	gttactcacc	120
atggcatttt	cagggtgaggt	gotttgcaaa	acgcacacgg	atacaacgag	taagaaagcc	180
cacgtaataa	agacgcacag	cagtaaggtt	agcagtaaac	aagagtattc	tcgcaatagt	240
gcaaaagata	gttcacttcc	tgatttgcca	aaataaccctt	ccgggacacc	aaggaaaaaa	300
gcggtttctc	ggacggtaat	gccttacatt	aaaagccaaa	atgccgcgat	tactgcggat	360
cgtaactggc	tgtctcccaa	acagtacgac	agccgctggt	ccgcgtctga	cgccactcgc	420
ctgaagata	tcgccaaacg	ctataaagt	aagtggagcg	ggaacacgcg	tcgcgtgcct	480
tggaactcac	tgttagaacg	gtggacacat	attccaggca	gtatggtcgc	gacaatggcc	540
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atgaaatcgc	taaaaggtcg	ttgtactaac	gcgcggcgca	aggtgaagg	ctattccag	660
tttgaatcgg	tgaaagattc	cgtagaatgcc	tacgtgggtg	acctgaacac	tcaccggccc	720
tattctcgtg	tcgtagaagc	acgcgctcag	ctcggttaag	cggatcagga	agtgaaggcc	780
acggcgaggt	tcctataagc	gaagggttat	tcactcag	gacagcggtta	taacaattac	840
ctgttctcca	tgtaccagga	taaccagcgt	ctgatttgcg	acacatgtga	a	891

<210> 4298

<211> 645

<212> DNA

<213> Enterobacter cloacae

<400> 4298

gaacatgacg	cgagatttga	agctggcctg	atggaaagct	ggctgatacc	ggccgagccg	60
gtcacccttg	ttgaggaaat	caaaaaaagc	cgtttttatc	cgtctgtggc	gataaccgac	120
ggcgttgagg	ccgcgaagcg	gtctgcgag	tcctgcgcgc	ccgacgaccc	ggatgcccg	180
catcactgtg	tggcgtgggt	cgcaggccgc	ccagacgact	ccagcagcgt	cggattttct	240
gacgagcgtg	aaccgcgggg	tacggccgga	aaaccgagtg	tctccagagt	gatggcgacg	300
ggcgtgggtg	aaatcaccgc	cgtcgtgtgc	cgtactacg	ggggcatttt	gttaggcacc	360

ggagggtctgg	ttaaagccta	cggaggtggt	gtccagcagg	cgcttaactct	tctgataaca	420
accgcgcaaaa	cgccactttac	ggaatatact	ttgttatgcg	attacgcccc	gctatcggtt	480
atcgaaagcac	tgcttaaaaa	gtttaacggt	gtcatcgcac	agagtgatta	tcaggcaatg	540
gtgcgaattac	gcgtggcgct	tcttcaggcg	gaactggctg	ctttttcagc	aaaactcgct	600
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<210> 4299

<211> 663

<212> DNA

<213> Enterobacter cloacae

<400> 4299

tgcgcaatat	gctgtttggg	cgctcttgagg	tctttacgct	gctggtgctg	tttaccceaa	60
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ggacaaaacgc	gtgagattgc	ttcatatctg	gcttctgaaac	tcacaaagagct	gggcatttat	180
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gtcattggcg	cttcaattcg	ttacggccat	ttccatccgg	cgctggatcg	ctttgtgaaa	300
aagcatacgg	cggaaactcgc	tcagctgcct	ggcgcgtttt	actcggtcaa	cctggttgcc	360
cgtaaaagcac	agaagcgtag	gcgcgcagact	aacagctata	cgcgtaagtt	tttgcgtgagt	420
tcgccatggc	agcccgatgc	ctgtttctgct	tttgcgtggcg	cgctcggtta	cgcgcgtttac	480
cgctcggttacg	accgctttat	gatccgcctg	atcatgaaaa	tgacggcgcg	ggaaacggat	540
acgcgtataag	aagtgggttta	taccgactgc	gtccaggtcg	ccagttttgc	cgctgtaaat	600
gcgcatttaa	cggacgatgc	gcgggtctgc	ttcacacgag	tgccagtgcc	gcgctatggt	660
aag						663

<210> 4300

<211> 606

<212> DNA

<213> Enterobacter cloacae

<400> 4300

tttccagagg	ggaaagtgtt	ccaaatgaaa	atcaaaaatg	tgccgctggc	gattgcgcgc	60
gcggggctgc	tggttatctc	tcaatcggtg	ctggcaagca	gtgattcttg	cggttaatgct	120
ttctctggata	ccggtgcggg	ttcgcaaaagt	acgggcgggg	tgatcaaat	taccgggaag	180
attaccctta	tttctgtgta	tattactccg	gcctctaaaa	acaaaaacggt	agaccttggg	240
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aacgtggaaa	actgccccga	gacggttgaa	tcggttgccg	tactgtttga	cggaacccaa	360
gatacgtgta	atgacacact	gcttcagggt	acgccatgtg	aaggtatggc	gacgggtgtc	420
cgcgtagaag	tttataaacg	cgatcgacgc	acgcgcgatta	aacccgggtac	ggatattgaa	480
acaacgcac	cggatgatga	aggaatgct	gaattaaact	tttatgcgcg	acttgacaaa	540
gatggcacag	aaatctacgc	cggcgatggt	aacgcgcgtt	ctaaactcct	gatggtttat	600
aactga						606

<210> 4301

<211> 705

<212> DNA

<213> Enterobacter cloacae

<400> 4301

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actgcattaa	tggttagtgc	tcgctcagtt	tcgcctgggt	ttgtaattgg	gggaacacgg	120
atcgataacc	cacaacacag	caaggaggtg	gcaattttctg	tttctaata	ggaaagtgcg	180
gttcctatc	tttattcagc	gtgggttgaa	ggggatgggc	agggtaaaaa	taacgctgcg	240
ccattttatg	tcacgcaccc	tcgtttcaga	cttgatccgg	agcagaccaa	tacgctgcgt	300
attcaaatata	ccggcgctcc	gctgcacaca	gatcgtgaat	ctgtattctg	ctgcgatatt	360
aaagcgattg	cgccaaagcc	aaaagagagc	agcaacgaat	tacaagttaa	cggttaaatcg	420
aaattttaaaa	ttttctacgc	cccgacacaa	ctaaaaaggg	acgctgcaac	tgctggcgac	480
aaaaaacgct	tttcgcggac	gggaaaaagg	cttaaggcgt	ctaaccgcag	gccatactac	540
gtctcttttt	atcgcgctac	cgttggcggg	cataaaattg	agcagccggg	catgatcggt	600
ccaggggaaa	cccgtaagt	gcctgtgtcc	gcctccgggg	gcgtgaagct	gtccggtatt	660
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<210> 4302
 <211> 612
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4302
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 ctggagaaga ggattgaatt tgaattcgta aatgaacaac cctacaacgc agagaacggc 120
 gttgcgcagt acaacccgcg ggggaagaatc ccggcgctgg taacgggacga gccgcactac 180
 tggtttgatt ccccgatcat tgcggagtag atcgagctgc ttggcggtgc ccagcccatg 240
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 attatggatg cggcattaac gtccgtacgc gagcaggcaa ggcccgcgcg ccacgagtca 360
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 ctgatccgcg acgggaaaaa tcagagcgat agcctgaatc tggcgacgat ccgcatcgcc 480
 tgcgccatcg gctacctcaa ttccgcgcg gtctgcgcgg gctgggtcgt ggatcgctcc 540
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 ccaagggctt ga 612

<210> 4303
 <211> 1866
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4303
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 aaaaagccgc gcatgacctg tgacctgggt tacgcctact ggccgcagcc cgacggtcgc 180
 gtgctgggct ttatcgacgt gccgcggcac gagaagtctc ttccaatat gctcgcgggc 240
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 cacgcggcgc agcgtatcgc gctgaatgtt gccggtgatg ccgaaaagga agacgttaac 780
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 ttccgcgatc ggtgtaatgt gggacgcaaa ctggcgatcc agatcctgga gttattcaac 1800
 cgcactgggt ttacgcgtgc tctgtgcaat gacctgtgc tacgcgagc gacgttattt 1860
 ccgttaa 1866

<210> 4304
 <211> 879
 <212> DNA

<213> Enterobacter cloacae

<400> 4304

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ttgttttcgg	gcctgatgct	gattgaaatc	ctcagtaact	atccgaacgg	gtgtccgcct	180
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gcatatatcg	gccagcatat	gcgcctctat	tgtttctcaa	tgggcaaaat	ctatatggcg	540
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ttgacccgca	acaccatcac	cgaactgagc	gcgatgtatg	atgagctggc	ggaaattcgc	660
gacacagata	tggcgatgga	taagaagag	aacgagctgg	gtgtgctcat	tatgcgcgtg	720
ccggtctttg	atattcacgg	gcgcgtaccc	tatgccatct	ccattttcgt	gtcgacgtcg	780
cgcatgaagc	aggtgggtga	gaaaaacttg	ctaaaaaccg	tgcgtgacac	ggcggaagct	840
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<210> 4305

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 4305

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ccgctgggtta	agggggaaac	cttcaccacg	cgagtgggct	gccaccagtg	tgaagatgag	180
ccctgcgcga	atgtctgccc	gacggggggc	attcacccgc	ctgcgggagc	ctggctcggt	240
aagcaatcgc	gctgtatcgg	ctgcataaac	tgtatgtgtg	cgtgcccgtt	cgggggcaatg	300
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gaggggcgct	ccgcctcgct	cgaagcctgt	cccacccacg	cgtcgcgctg	catagacccc	420
gccagcttac	gcgcggaagc	gctgcgtaat	atggcctga			459

<210> 4306

<211> 1518

<212> DNA

<213> Enterobacter cloacae

<400> 4306

ataacagcat	tcattgcccc	taagcgtgct	gccacccggc	attttctgtca	aaggagtcc	60
caaatgtata	tcgggatcga	tottggcacg	tcgggggtga	aagccactcct	gttaagcgag	120
caggggcgatg	tgttagccac	gcagactgaa	aaagtgcagg	tttcacgccc	gcattccgct	180
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aaaaatcatg	ctcgctatgc	tgaagaacga	gacgtgttcc	gcaaaattta	tcggcagcgt	1500
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<210> 4307

<211> 939

<212> DNA

<213> Enterobacter cloacae

<400> 4307

aaccacacgt	atccagcagc	aaatactatg	caaaagtgtg	ataccaagac	cttccagggc	60
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gacatggaag	ttggcgacag	caacctcacac	ccgatgacca	gcctgcgcgc	gttagggcca	180
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tacattctgc	gtattctgac	ctcgacccaa	gcctgtgcag	aaagtactta	cgcgtcccg	900
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<210> 4308

<211> 2079

<212> DNA

<213> Enterobacter cloacae

<400> 4308

gaggcgccca	tgtctgagaa	aactttctctg	gtggaatcgc	gcactgaaga	gctgccacca	60
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gctgctcgtg	cgcaacggtaa	aattgagtg	tttgcctgcg	ccgctgcctg	ggcgtgaaa	180
gtggcaaaac	tggcgcgctc	ccagccggat	cgcaagtg	aaaaacgtgt	ccggccatt	240
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tgcggcatca	ccgttgatca	ggccagagcgt	ctgacccacc	acaaaaggta	atggctcgtg	360
tatcgtgcgc	atgtgaaagg	cgaaagcgcc	gaagcgtgcg	tgccctgacat	gatcgcgacc	420
tcgctggcaa	aattggcaat	ccctaagctg	atgcgctggg	ggcgctccga	cgttcaactt	480
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ctggcgctgg	cgtccgatgc	cgctgatccg	ggccatcgct	ttatggcgca	gcccgaagtt	600
accatgcaga	atgcgcagca	gtatccacag	atcctgctgt	aacgcggtaa	agtgattgca	660
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<210> 4309

<211> 1362

<212> DNA

<213> Enterobacter cloacae

<400> 4309

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<210> 4310

<211> 2544

<212> DNA

<213> Enterobacter cloacae

<400> 4310

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<210> 4311

<211> 1104

<212> DNA

<213> Enterobacter cloacae

<400> 4311

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<210> 4312

<211> 1644

<212> DNA

<213> Enterobacter cloacae

<400> 4312

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<210> 4313

<211> 1641

<212> DNA

<213> Enterobacter cloacae

<400> 4313

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<210> 4314

<211> 267

<212> DNA

<213> Enterobacter cloacae

<400> 4314

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<210> 4315

<211> 369

<212> DNA

<213> Enterobacter cloacae

<400> 4315

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<210> 4316

<211> 1410

<212> DNA

<213> Enterobacter cloacae

<400> 4316

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<210> 4317

<211> 1473
 <212> DNA
 <213> *Enterobacter cloacae*

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 <211> 297
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4318
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<210> 4319
 <211> 516
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4320
 <211> 702

<212> DNA

<213> Enterobacter cloacae

<400> 4320

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<210> 4321

<211> 1020

<212> DNA

<213> Enterobacter cloacae

<400> 4321

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<210> 4322

<211> 1149

<212> DNA

<213> Enterobacter cloacae

<400> 4322

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<210> 4323

<211> 591

<212> DNA

<213> Enterobacter cloacae

<400> 4323

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<210> 4324

<211> 2463

<212> DNA

<213> Enterobacter cloacae

<400> 4324

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<210> 4325

<211> 915

<212> DNA

<213> Enterobacter cloacae

<400> 4325

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<210> 4326

<211> 879

<212> DNA

<213> Enterobacter cloacae

<400> 4326

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<210> 4327

<211> 2037

<212> DNA

<213> Enterobacter cloacae

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<210> 4328
<211> 1425
<212> DNA
<213> Enterobacter cloacae

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<210> 4329

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 4329

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<210> 4330

<211> 1455

<212> DNA

<213> Enterobacter cloacae

<400> 4330

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tactacagcg	tttaa					1455

<210> 4331

<211> 927
 <212> DNA
 <213> Enterobacter cloacae

<400> 4331
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<210> 4332
 <211> 873
 <212> DNA
 <213> Enterobacter cloacae

<400> 4332
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 ctgaaggtg cgggtgccag ttttggctag tgggaaatca gtattatctg gggtctgggc 180
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<210> 4333
 <211> 1530
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4334

<211> 1026

<212> DNA

<213> Enterobacter cloacae

<400> 4334

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<210> 4335

<211> 774

<212> DNA

<213> Enterobacter cloacae

<400> 4335

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<210> 4336
 <211> 1272
 <212> DNA
 <213> Enterobacter cloacae

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 gaagagcaga aatccctgcc gtggcaggcg gtgtgggaga tgtactgcca cgcgtcacgat 1200
 gccactcgcg cgagccagtg gctggataac gtgcgggcgt atgagaaaga ggttcttggc 1260
 gctcgtcagt aa 1272

<210> 4337
 <211> 927
 <212> DNA
 <213> Enterobacter cloacae

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 aacggcgccca acctgacgct acgcctggac gacgcggata tcgagccatt tgctccgat 240
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<210> 4338
 <211> 1272
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4339

<211> 342

<212> DNA

<213> *Enterobacter cloacae*

<400> 4339

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gtactgaaga ccacggcgcg gaccactac gccatttacc tcgacaaaag ccgcaacctg 180
ctgttttcga cgttgaggat tgaatcggag gacgcgtgga atgcggtggc aaacaccgat 240
gtctgcacgc ggtgtggtaa acatatggct gaogttatgc cgtctaaacc tgacaaacagc 300
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342

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<210> 4340

<211> 930

<212> DNA

<213> *Enterobacter cloacae*

<400> 4340

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ctcgcgcgag ttgcagagaa caaccgcgtg ggcatatttc tgccgttttc cgcgctgggtc 180
gcccatggcg aggaagtggg gctgtacgac catcgcgtgc aaatggacct gaccgcacgc 240
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aagcaactgc ataagctgct gcatctcgtg attgcgagc tgaagcccgga gatgagcgcg 360
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930

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<210> 4341

<211> 954

<212> DNA

<213> *Enterobacter cloacae*

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<400> 4341
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<210> 4342

<211> 903

<212> DNA

<213> *Enterobacter cloacae*

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<400> 4342
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attcaggcgc ttggtgaaag cggcgctcgg cgccgcgcga cgcgcgcaacg 180
gaacgcgaat tctgtatcac catgctgccca aacggcgacc tggtaacgag cgtcctgttc 240
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gcagcgcgca cggcccaaga ggttgagcgc gccaccocgg tctaatggc gatgggcaat 480
gagctgatta acgcggcgcc gcaagcgtat ggcattccgc caataactac 540
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cgcgtcgcga cggcctcccg cgaagtctac aaccaggcac gcgcgcggg cgcggggcg 840
gaggactgga cggccattct tgaacaggtt cgcgcattcg ccgggctgaa aaaatcacac 900
tga 903

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<210> 4343

<211> 1434

<212> DNA

<213> *Enterobacter cloacae*

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<400> 4343
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ctcgttcgcga agtttttcc cgcgtttacc gacatgctga ccggggtgct gctggaatcc 240
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tggcgctcag gcggcgcaac ggtagggtgt ttgctctgca ccgtcggctt tatgcggatc 540
caggcgctgt tctgcagcca gccctcacto ggctatctgc tggccgcgct ggtgtttgtc 600
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ctcaacgaga	cgcgcttcgc	ctttattatc	gaggagatgc	gaaaaacgga	gaacacagaa	1380
gcaaatatcc	ctgagataac	caccaacaat	aaagcgctac	cagtcacttt	ataa	1434

<210> 4344

<211> 1431

<212> DNA

<213> Enterobacter cloacae

<400> 4344

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agcggcagcg	aggtgctcga	cgcactcacc	accaaaaacc	gctctcggat	tcgcatcatc	180
attcgcatcg	cggcgatgga	cggactggcg	ctcttaaagg	agatacaaac	ggccaccctc	240
atgcttcogg	tcattcataat	gacgcgccac	tcgcacctgg	atgcgcctgc	tacgcctcat	300
cagcaggggg	cgatttgatta	tctgccaaaa	ccgtttgata	tcgacgaagg	cgttgcctgc	360
gtcgaaacgg	ccatcagcca	ctatcaggag	caacagcagc	cccgcaccgc	gccggatttc	420
gggcctacga	aggacatcat	cgggtgaagc	ccggccatgc	aggaacgtgt	tcgcatcatc	480
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<210> 4345

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 4345

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gaagacatct	cttatgatgc	gagcgacctt	aacggtcaaa	gcattaccat	tgacgcagac	240
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<210> 4346

<211> 615

<212> DNA

<213> Enterobacter cloacae

<400> 4346

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cttctggcgg cgctctccct tttcgatcaa tctatcagcc agttcccgga agccttcaac 180
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aaaaacaacac gctattacgc cgatacggaa ggtgcgctc gctatgtcgt cgcagataac 540
ggcgaaaag ggtgcacct cgcggtgaa ccgattaagc tggccctatc agacgcactc 600
gagggggcga attaa 615

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<210> 4347

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 4347

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gcgtggagaa ttgaaatgcg acatccttta gtgatgggta actggaaact gaacggcagc 60
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tgccgggttg ctatcgctcc gccggatagc tacctgggac tggctaaaag tgccgctgac 180
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gcgcgacgct tcgaaggcgc ggttatcgct tacgagccag tcctggcgat ccgtacagcg 540
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tcacaacgag ctgagctgtt caccacgcca gacatcgat gcgcgctggt tggcgcgca 720
tccctgaaag cagacgcttt cgcggtgatc gttaaagcgg cagaagcggc taagcaggcg 780
taa 783

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<210> 4348

<211> 1434

<212> DNA

<213> Enterobacter cloacae

<400> 4348

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ttaatgctcg ttttgatgtt gccaaaactc gactcacgcc agatgacgga gctactcgac 180
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cgtccgttct accgcaccga cgaggcgcgc gaccgggaat cggcgcggtac gggactgggg 1320

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ctggcgattg tggaaacccg catgcaacag caccgtggct gggtgaaagc cgatgacagc 1380
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<210> 4349

<211> 1707

<212> DNA

<213> Enterobacter cloacae

<400> 4349

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cctcacgttc atcttttgcct tcttgccagc gcgagatttg ggctgtcagt ggcgagaagc 180
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cgactgacta aggagctttg cgcataga 1707

<210> 4350

<211> 1083

<212> DNA

<213> Enterobacter cloacae

<400> 4350

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ctcacccgtt ccgctctggc gttgtccggt tccgctttag cagaagtga aatcgccgtg 180
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aaaggtgagg ccagcatggg caaactgggc aaagtgaagc tggatgcgga cggaacggcg 1020
gcgatggccg agccgttcgt ctacgatgcc agcaatattg ataagttctc gaaaatcttt 1080
tga 1083

<210> 4351
<211> 1521
<212> DNA
<213> *Enterobacter cloacae*

<400> 4351
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cagcccgacg agggcgaaat tctctacaag gcgatccccc ttcaccttcc aacggcgga 240
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gacggcgccg caacgctgaa aaccctaagc atcgcccagc gtcacatggt ggcgattgcc 480
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gcaaaaacag agcgcgata a 1521

<210> 4352
<211> 1005
<212> DNA
<213> *Enterobacter cloacae*

<400> 4352
atgcttagct cactcttaaa acacccgcaa gccctgctgg gcggcggtgat tatcctgatg 60
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<210> 4353
 <211> 1164
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4353
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 gtcaccgagc gtcagctgtg gaagctgggc ctgctcgaca gcctgtttac gcgcctcgac 180
 gccatcaga tgcgtatca cctgttcgat gaggatttcc cgaatccgac ggaagcgtg 240
 gtgcataaag gctatgcgcg atatcaggat gggagtggtg attaactgat tgcctttggc 300
 ggcggcagcc cgattgatac cgccaaggca atcaaaatcc tcaccgcgaa ccccggtccg 360
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 aacaccaccc caggcacggc agcggagatg accagcaaac cgggtgatcat tgaacgcgca 480
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 gaagcggcca gcatgtacca cattcaggcg attcgcgacc tgagcgcggc ggtcgcgatt 1020
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 gagctgtacc tggaggcttt atga 1164

<210> 4354
 <211> 666
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4354
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 ttccgcgtgt gggctgcgctt tgcctctccc ctacgggtgc tggcaggcgc atccagattt 180
 atgtttattg gcatcgtggc aagcggcgcc aatccgctgg cagcggcgcc ggccggttta 240
 ctggtaaaac cagcccatgt gcgcttcggc gtaacgggtg gtgacctggt tggcgaagcgc 300
 ggcttgagct ttctgggctg tcatattatg aacgatgaaa gcgtggtgtt cggcctttcg 360
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 atctggccgc tgggggcggt actggggggc atggtgcgca agctgctgcc agacccggaa 480
 aacatcgggc tggacgcggt gttcccgccg atcctgctgg cgttaagctt gcggcgattt 540
 aaaaaacgta ccacgctgat ccgcgcgtg agcggcgccg tgttgtgctt ggccgcgcta 600
 ccgtttgcgc cggctgggtg gccggtactg ctctctttgc tcggccttgc cgcgaggaaa 660
 aaataa 666

<210> 4355
 <211> 657
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4355
 agagaaagac gaggctgcga aatgagaaaa cgtgacacca tegtgcgcta caccgcggcg 60
 gaaactatca accactgggt caccgccttc tgcctcatgc tggcggcgat aagcggcgct 120
 gggttcttct tcccgctcct caactggctg atcgagatca tggggacacc acagcgtggc 180
 gctatctgac accgctttgt gggcgtcatc atgttgcgct gcttcatacat cgtgtttttc 240
 cgttactgac accataacct aatcaatcgg gatgatattc tttggcgcaa gaattattgt 300
 aagatcgtgc tcaacgagga agtaggtgat actggcggtt ataacttcgg ccagaaaatg 360
 gtattctggg cggcgattat cttcctggtc ctgttgcgtg tgagcggcgt gatcatctgt 420
 cgtccgtaac ttgcgcctgc ttctcaatc ccgctgatcc gatttgcgt aatgctgcat 480
 tcatttgcgc cagtggcgctt aattgtggtt atcatggtgc atatttaacg cgccctttgg 540

gtgaaaggca ccattaccgc gatggtgtaa ggctgggtca ccaaaactgt ggcgaagaaa 600
catcaccgcg gctggtagcc tgaagtccgc cagaaacagg aaaagtcatc tgaatga 657

<210> 4356

<211> 1287

<212> DNA

<213> Enterobacter cloacae

<400> 4356

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accctgagcc ataacgcgtg gctcgaacaa gagaccgacc gcaattctcga tttcgtgtaa 120
aacgcgcgcg taaccgacgg ctttggtctg ctgggcaata acgggcaggt gcgtagcgat 180
atggggcacc atctgtggat caccgcgcgc atgtctgatg tgtagcggtt ggcggcgaa 240
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accggccatc cgcaggcagc caagtgtctg gacgacgcca tcgaggtgat tgagcgcctac 480
ttctggagcg aacaggagca gatgtgcctg gagtctgggg acgaagcctt cagcaaaaacg 540
gaagactatc gggcggttaa ccgcaacatg caccgcgtgg aagcttctct catcgtttat 600
gacgtgaccc acgacgcgaa atggctcgac cgccgcctgc gcatgccttc ggtgattatt 660
cagcagctgg cgcgcaaaag ggagtaccgc gtttaacgagc attttgacac caactggaa 720
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gattactgca tcaagtatct gatggattac gaaaacggat cctggtggga ggagctggac 1140
accaaacaag aagtgaacc caaagtctgg gacggcaagc aggatattta ccactctctg 1200
cactgcctgg tgatcccccg cctgcgcctg gcacggggtc tagcgctctc cgtcgcgcgc 1260
ggattactgg atagccagcg caaataa 1287

<210> 4357

<211> 1050

<212> DNA

<213> Enterobacter cloacae

<400> 4357

atggcaactc gcaacgtgcc cgaatgctgg cagatcctca attcttttct taacagtatt 60
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gcccaaaagg ccagaaaact gtttggcagc ccgctgcggg aactgctgat ctatttctcg 180
ctgaatatgt gttctgatga ggagagtgtg caggcggttc agggcttcac cgataacgaa 240
gtgacgctgg tgattgacgg acgctgcgat attttgtccc tcaccgcaca ggcctgccca 300
gatggcatga ttctgctgga aatggcgccg atggataacc aacgtcgtct cagccaggag 360
cagcttcagc atgcgcagca gattgcggcg cgcgacctgt tgcgcgggct gccccttag 420
atcaaaaaac cgctggggcg cttacgcggt gcggcacagc ttttgaccaa agcgtcgtct 480
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ctggtgcgat gctcgtctgg gccacagcgc ccggggatgc atgtttcaga aagcattcac 600
aaggtcgccg agcgggtggt gaaactcgtc tctatggagc tgcgggataa cgtcacgctg 660
gtgcgtgatt acgacccaag cctgcgggag ctggcgcaag atccggacca gattgaacag 720
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aatttgatt accaacactc cgcgcaaatc gaatttacca gttggccggg acataccgag 1020
ttttcgtgtt ttaaaacgat taataataa 1050

<210> 4358

<211> 1485

<212> DNA

<213> Enterobacter cloacae

<400> 4358

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gaccagaacg	ggccgcgcga	tacgaacgcg	acaccaacgg	aaggagtgag	catgtctgtg	120
ccatctatcg	actgggattt	ggccctgac	cagaaatata	actattccgg	gcgcgcgttat	180
acctcacaac	ccacccgcgt	ggagttttct	gacgcttccg	gcgaggcgga	ttttcagcat	240
gctgtggcgc	gctatcccg	ggcccgctg	tcgctctacg	tcctattcc	attctgccat	300
aagctctgct	actctcgcgg	ctgcaataaa	atcgcttacc	gccagcagca	caaagccgat	360
caatacctcg	atgcgctcga	acaggaatt	ctgcaccgcg	cccgctgtgt	taaaggcggt	420
cacgttagcc	agcttcaact	ggcggtgggt	acgccaacct	atctcaataa	agcgagcatc	480
agcgccctga	tgccgctgct	gcgcgacaat	ttcagtttta	acgcagcgcg	cgaatttcg	540
atcgaggtcg	atccacgtga	aatcgagctg	gatgtgctgg	atcatttaacg	cgctgaagcg	600
ttcaacgcgc	tgagtatggg	cgtacaggac	ttcaataaag	aagtacagcg	cctggtaaac	660
cgcgagcagg	acgaacggtt	tatctttgcc	ttactcaaac	atcgcgctga	aatcggtctt	720
acctcaacga	atatagacct	gattttacgcg	ctgcgcgaagc	agacgcgcga	gagcttcgcg	780
tacacgctta	aacgcgtggc	tgagcttaac	ccggaccgtc	tgagcgctct	taattacgcg	840
cacgtccgca	cgtgttccg	cgctcagcgc	aaaaatcaaa	atgcggtatc	gccttcgcgc	900
cagcagaagc	tgacatttt	gcaggagacc	atcgccctgc	tgaccgaaac	cggtatcaa	960
tttatctcga	tggtatcaat	tgcgccct	gacgacgaac	tggaatttgc	ccagcgcgaa	1020
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gaatttcgcg	aggtggagtc	gcaatgggat	ctgcaattca	gogattacct	tgccgaagac	1320
ctgaacctcc	ttgcgcgcct	ggcggaaggac	gggctgggtg	atgtgtcgga	aagcgcgggt	1380
ctcgtcacgc	cgaaggagac	ctgtgtgatt	cgtaatatct	gcattgctct	cgatgcctat	1440
ctacgtcaga	agggcgcgtt	acacgagttc	tcgcgggtga	tttaa		1485

<210> 4359

<211> 969

<212> DNA

<213> Enterobacter cloacae

<400> 4359

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agatggggcta	aagtttccac	ggcaactact	cccgacgcgt	atgcgcgcgg	taaaacaaat	120
caattaaacg	ctgtagtaca	gttccgaact	aaccgggtgc	ggcgctcatgc	gaacgcggct	180
gtttttctca	gtacgcagcg	cgatgtaagc	gtcgatagct	tcactcggtga	acacgcgcgc	240
agcggtcagg	aactcgcggt	ctgcgtccag	cgcttcgagg	gcttctctcca	gagagccggc	300
aaactcgtgg	atctctttcg	cttctctcgg	ggcgaggtcg	tacaggtttt	tgtccatggc	360
ttcgcgccgg	tggaatttgt	tcttgatacc	gtccagaccg	gccatcagca	gtgctgcgaa	420
gcacaggtag	gggttagcgc	ccgggtcccg	gaagcgcact	tcgataccgac	cgcttttcg	480
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tttgctcatg	gtgttggaag	gggttagcgat	ctcgtctcgg	ccagcgcctc	cgcgttcgtg	900
gtggtgcgct	tcaacaacca	ggcccatctc	ttccatgac	agacacatgg	tagaacggat	960
gtcctgtga						969

<210> 4360

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 4360

agaatcgacc	ggaggaacgg	ggaagtaacc	gccttttcacg	cctggacggt	gacctttgtt	60
accaccttcg	tactttggtg	aagatgtcca	tgccgcttcg	atgtcatcga	tagcgacgtg	120
ggagccagaa	atggaagcac	caaaacggat	gtcgtcgaa	aggaagaact	ctggctctgg	180

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cccgaacaga acggtgtctg cgaagccggt agagcgcagg taactcttcag cgcgtttttgc 240
gatggagcgt ggggtcacggt catagccttg cagcgtgccg ggttccagaa tatcgacgag 300
gatgatcagc gtagggtctct cgtagaacgg gtcaatgagc gcagtggttg catctggcat 360
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tttgccttct tcaagaattt cggogttcac ctgatgagca gggatcgtga cgtgctgttc 480
tttaccctta gtatcgtgtg agcgcagatc aacaaacttc accttcattgt cgttcagcat 540
cgtcaaacag tgttcagcgg acatacttaa

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<210> 4361
<211> 654
<212> DNA
<213> Enterobacter cloacae

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<400> 4361
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tggagcgatt tttagcgtgt tcogctggcg acgttaaaag agaatttcgc gatgggtgag 180
actttccctc tgcacgagcg cggtagatc agcagatgaag cgttcgcaga cgttttctgt 240
caggaaatgg gtctttcgtt aagctaacgag cagttttccc accgctggga ggccatattt 300
gtcgcgatcc cggcggaagt gatcgacatc atgcacaaag tcgcgagaga ggaacatcgt 360
gttgctgtgc tgtctaatca taaccgcctg cataccacct tctggccgga tgaatacccg 420
gaaattcacg cggcggcaga ttaagtgtat ctctccagg agatggggat cgttaaacct 480
gaggcgcgca tctatcaggc agtattgcag gaagaaggat tcacggcagc ggtatcggtc 540
ttttttgacg acaacgcgga taatatagaa ggggctaate agttaggtat cacctccatt 600
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<210> 4362
<211> 1092
<212> DNA
<213> Enterobacter cloacae

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<400> 4362
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ttcgtgtgtg aacgatggcc cgtcacatt ctggctccag gtatgagcca actggcgga 120
tggccgcggg taacaagaga gagtacagct atgtatcacc ttcgagtacc gcaaacggaa 180
gaagaattag acgcttatta ccatttccgc tgggaaatgc tgcgcgaacc actgcacaa 240
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atccgcttta tggccgttca tccctccgtg caggacaaag gccttggaa cgtgatggca 420
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gaagatccgc ttgagttctt tgccaagctt ggtttcgtga atcaggggga aatcaccgcc 540
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aaagcagcgc tacagatgca ggttgagctg ttcggcgatg aaacgcgagg cgcgtgtgtt 1020
gaaggcacct atatcgttct gcctgcgaag ccgatggcg cgtatgaaga ggggtgggaa 1080
gaggaggagt ag

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<210> 4363
<211> 1401
<212> DNA
<213> Enterobacter cloacae

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<400> 4363
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tgggtgggaa cggctgttaa ggtgacggcg cgggcaaccg gccctccggtt gaggataaaa 120
ataatgaaca caacaacctg taccaccaaa gacaacccta actctgggtt cttcgggctg 180

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```
<210> 4364
<211> 879
<212> DNA
<213> Enterobacter cloacae
```

```
<210> 4365
<211> 654
<212> DNA
<213> Enterobacter cloacae
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[illegible]

<210> 4366
 <211> 705
 <212> DNA
 <213> Enterobacter cloacae

<400> 4366
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<210> 4367
 <211> 603
 <212> DNA
 <213> Enterobacter cloacae

<400> 4367
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 aacgctttcc cagcagaggg ccgaacgcag cacagcagcc aaagccatat gtttgacggc 240
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 caagcgggtt tgaataccaa acatcagcaa cgtatgaacc agttgcgtga ggttgacagg 540
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 taa 603

<210> 4368
 <211> 909
 <212> DNA
 <213> Enterobacter cloacae

<400> 4368
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<210> 4369

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 4369

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ggtgaaacct	tgaccgcgca	agagcagtca	tgggtggatg	ccaaactgga	tgcgatcgac	180
gagctgatgc	ataagctggg	tctgtcttac	gatgacgaag	acgacgaaga	agaagacgaa	240
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<210> 4370

<211> 948

<212> DNA

<213> Enterobacter cloacae

<400> 4370

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gaaggtggga	aatatgtcgc	aaaagactat	acggaagtgg	gcggcgccgc	ggcggaacgc	180
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<210> 4371

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 4371

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gtgctgtgtg	tttccagttt	tacgttggtc	gcggataacc	aacgcgcgat	gcggccgagt	300
ttttcgaaag	gcgcggccac	ggagcgcgca	gaagctctat	acgagtaact	tggtgagcgc	360
tgctgccaac	aggacatgaa	tacacaaacc	ggacgatccg	ctgcggatat	gcaggtttcg	420
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<210> 4372

<211> 1062

<212> DNA

<213> Enterobacter cloacae

<400> 4372

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<210> 4373

<211> 2229

<212> DNA

<213> *Enterobacter cloacae*

<400> 4373

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<210> 4374

<211> 1095

<212> DNA

<213> *Enterobacter cloacae*

<400> 4374

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<210> 4375

<211> 1050

<212> DNA

<213> *Enterobacter cloacae*

<400> 4375

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<210> 4376

<211> 819

<212> DNA

<213> *Enterobacter cloacae*

<400> 4376

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<210> 4377

<211> 1833

<212> DNA

<213> Enterobacter cloacae

<400> 4377

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<210> 4378

<211> 912

<212> DNA

<213> Enterobacter cloacae

<400> 4378

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<210> 4379

<211> 951

<212> DNA

<213> Enterobacter cloacae

<400> 4379

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<210> 4380

<211> 912

<212> DNA

<213> Enterobacter cloacae

<400> 4380

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<210> 4381

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 4381

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<210> 4382

<211> 642

<212> DNA

<213> Enterobacter cloacae

<400> 4382

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<210> 4383

<211> 864

<212> DNA

<213> Enterobacter cloacae

<400> 4383

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<210> 4384

<211> 1326

<212> DNA

<213> Enterobacter cloacae

<400> 4384

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<210> 4385

<211> 501

<212> DNA

<213> Enterobacter cloacae

<400> 4385

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<210> 4386

<211> 273

<212> DNA

<213> Enterobacter cloacae

<400> 4386

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<210> 4387

<211> 3219

<212> DNA

<213> Enterobacter cloacae

<400> 4387

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<210> 4388

<211> 855

<212> DNA

<213> *Enterobacter cloacae*

<400> 4388

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<210> 4389

<211> 903

<212> DNA

<213> Enterobacter cloacae

<400> 4389

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<210> 4390

<211> 1308

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (672)

<400> 4390

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<210> 4391

<211> 744
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4392
 <211> 744
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4393
 <211> 882
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4393
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 ggcacaccgt ccaggtgtaa tactctcgcc aagctatgt ga 882

<210> 4394
 <211> 804
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4395
 <211> 2058
 <212> DNA
 <213> *Enterobacter cloacae*

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ccgcgcaaca tgcattaa

2058

<210> 4396

<211> 2304

<212> DNA

<213> Enterobacter cloacae

<400> 4396

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<210> 4397

<211> 525

<212> DNA

<213> Enterobacter cloacae

<400> 4397

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gctgaggtca	acggcggaagt	agtcgggacg	gtgatggggc	ggtaacgagc	ccaccgcggc	300
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cggaagata acgacgtggt gctggggcag tatgaacgtc tgggctacga gcacgcggat 480
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<210> 4398

<211> 948

<212> DNA

<213> Enterococcus cloacae

<400> 4398

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<210> 4399

<211> 837

<212> DNA

<213> Enterobacter cloacae

<400> 4399

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<210> 4400

<211> 1131

<212> DNA

<213> Enterobacter cloacae

<400> 4400

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ccgcgcaccc ggggggaacg cctgtttgtg gggctgcaac acgcgcgcgt ttatcacggc 1080
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<210> 4401

<211> 873

<212> DNA

<213> *Enterobacter cloacae*

<400> 4401

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ccgacgggtgc tggttcagaa tacgccacac taagacacct ttacggcgcg ggtgatcccg 240
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<210> 4402

<211> 282

<212> DNA

<213> *Enterobacter cloacae*

<400> 4402

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ccatcaccaa cgtatttctc agcaaacact acatccggca cgtctcgat gttgacgatc 180
tgcgcggaga gcggagcaac aatctcaata gttccggagt ctttcttgct atcagaaacc 240
agagatttca gtttatcgaa caaacccatg atcttctctt aa 282

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<210> 4403

<211> 1275

<212> DNA

<213> *Enterobacter cloacae*

<400> 4403

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<210> 4404

<211> 2379

<212> DNA

<213> Enterobacter cloacae

<400> 4404						
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<210> 4405
 <211> 1434
 <212> DNA
 <213> Enterobacter cloacae

<400> 4405
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 gccatggggg taccgcgtga aatcaccaac ggcggtgatg aggggaaaaa ttaccacaaac 180
 cacgaagcca tcgaattcta tcacgcgtat aaagaagaca tcaaaccttt tgcggaaatg 240
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<210> 4406
 <211> 891
 <212> DNA
 <213> Enterobacter cloacae

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 cttcagcagt cagataaaaag cttgcggttg agttgggtat ccgtgtcaac 180
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 atacataaag cgttgagaca agacagcga cactcataa atgetctgcy tgatataccc 300
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 gccctcaggc tcacgctgcc gttacgcgaa atcaatccgc gggtgaacag tgaacccggc 780
 ggagcgtcgt tgatcccaat gtgtgagttt tacaacccgg gaaaagcgca gaaaagagctg 840
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<210> 4407
 <211> 906
 <212> DNA
 <213> Enterobacter cloacae

<400> 4407
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gtcgccaatg	gaacctcggc	gacgtgttcg	gtagggaacta	cgggtgaatc	cgctacgctg	180
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tttaacgaca	cgggcattgt	cggctgtctg	acggtgaccc	cttattacaa	ccgtcctact	360
caggaaggtt	tggtccagca	tttcaaaagc	atcgctgaac	atactgactt	gccacaaatt	420
ctgtataatg	tgccgtcccg	taccggttgc	gatatgctgc	cggaaacactg	tgccggtctc	480
tcgaaaagtaa	aaaaatttat	cgggattaaa	gaggcgacag	ggaacttaag	cgcggttcat	540
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ctggactttta	tcgacgtcgg	tggttaacgc	gtgatttcg	tgacggcgaa	cgtggcgcg	660
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<210> 4408

<211> 291

<212> DNA

<213> *Enterobacter cloacae*

<400> 4408

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atccgcagat	ttttgctggc	ggtgatgcgg	tacgcggtgc	ggatctggtg	gtcaccgcga	180
tgccggaagg	gcgccatgcc	gcgcagggga	tcaggactgc	gcttggcggt	cgcgcgcga	240
acatgcatta	acgcagacgg	gcgacaaaag	gggtctcagc	gcgtagtata	a	291

<210> 4409

<211> 621

<212> DNA

<213> *Enterobacter cloacae*

<400> 4409

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ggggacgtca	ttcgccataa	acgcgaagtc	tacgaccggg	gcaattggtg	aaccattctg	180
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<210> 4410

<211> 456

<212> DNA

<213> *Enterobacter cloacae*

<400> 4410

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atcgggattg	cgtgggtggt	gcgggatatt	gtcgcgctgc	tgtggctggt	cacgaatccc	420
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<210> 4411

<211> 639
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4411
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 acgctctcat ccatcaactc gtctcgcgcc tatccgtgga actggtttgg ttccctaaacg 180
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 gataaaggta cggtoaaccc cattgcgggt atggatgaag agattccgac ctccaggtggc 420
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 aaaaagtgga aagtgcagca aattatctcg aagcagtaa 639

<210> 4412
 <211> 1023
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4412
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 aaaaaccaaa ttctggcgga gtcccggtg gcgtgggtgg ataaaaacgt taaggctaac 780
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 aaattccccc agaccgagct gttccgctgt gaagatcatt tcggcgctcg cctgaggtg 960
 atgaaaacgc attttgcagc cggcggtgag ttgacaaaat tgctggcggc gggcgctaag 1020
 taa 1023

<210> 4413
 <211> 921
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4413
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 cgcattgggt gtgacaacgg cagcgaaatc tgggttcaaac ttgaaggcaa taaccggcg 120
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ggtgcgctag cgggcgcgat cggggtggct gagtccacgc cgggagcggt ggtcgtagcg 840
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tcgcaggggg cggggattta a 921

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<210> 4414
<211> 723
<212> DNA
<213> Enterobacter cloacae

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<400> 4414
ttgatgtatg tcaagcaaga tgggtatggc gcaatccgaa aaaaacggta taatcccgcg 60
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taa 723

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<210> 4415
<211> 1113
<212> DNA
<213> Enterobacter cloacae

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```

<400> 4415
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tggccggtg tgccgcgggt ggaagataag tag 1113

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<210> 4416
<211> 1044
<212> DNA
<213> Enterobacter cloacae

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<400> 4416
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aaagcgctcg atattcgtcc gccagctcag cctctggcgc tcgtgagcgg cgcgcgcacg 300

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cagttcacgc	gtgatacagc	ttctctgctg	gtggaaagcg	cacgcgggtac	aacgctgtgg	360
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ctgccttcgc	gtgactacaa	aatccaggtc	gcgcacctcg	ataacgcga	cagctctgcaa	960
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<210> 4417

<211> 1968

<212> DNA

<213> Enterobacter cloacae

<400> 4417

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gcacccggca	aaggggcgac	ggaatgcac	gcgcgtttgc	cgggggaacg	ttttcacttt	720
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<210> 4418

<211> 1134

<212> DNA

<213> Enterobacter cloacae

<400> 4418

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tgtgataact ggaatggggc agatgcctgg cccacgcgtg ggatcaaaag gtag 1134

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<210> 4419
<211> 918
<212> DNA
<213> Enterobacter cloacae

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<400> 4419
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gatacccggt ttcgggtgtc tctctgtgtg gcgggtcttg tttatctgct ctctacggcg 420
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aacactgtcg gttccctttc tgcgcgagcg ttgctgacgc tgatggccat tttgacctg 840
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ggaatcatgt agcattga 918

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<210> 4420
<211> 456
<212> DNA
<213> Enterobacter cloacae

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<400> 4420
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ggtggttaag atatgatttc acatctctac cagccaatgt caccgtccgt actgaatttg 180
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gcgaaggtgt tagcagagca ggtctctgtc caaccgcaaa cggacgagtt aatgaecgtg 420
gttaacaagt tcattgaaga aaaaacaatc tgctaa 456

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<210> 4421
<211> 387
<212> DNA
<213> Enterobacter cloacae

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<400> 4421
 ctgaaccgccc tcgctgtgcc acggcagcgc gtccagcctt gcgctgcgt gtcggcgctg 60
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 ttgcgtgatg gctccgttcg ggcagctttg cgcgcagggc gcattttcac agtggttgga 360
 ggtcacgggg ctttttcgca agcctga 387

<210> 4422
 <211> 591
 <212> DNA
 <213> Enterobacter cloacae

<400> 4422
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 gatgcgtcaa atatcgagca agcgttcaaa gccctctgta cagaattaca cgcgcgaaggc 540
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<210> 4423
 <211> 462
 <212> DNA
 <213> Enterobacter cloacae

<400> 4423
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 aacggcatcg atccggaagt ggtgttgat ctggagacgc cgcgggatgc cgacagcgtc 240
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 cgtatcgccc gtcgcgcgga agacgtactc gggatcgtct aa 462

<210> 4424
 <211> 696
 <212> DNA
 <213> Enterobacter cloacae

<400> 4424
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 gcggcgcttc gotttcacgg gcctacgggc ccgtag 696

<210> 4425
 <211> 537
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4425							
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<210> 4426
 <211> 519
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4426							
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<210> 4427
 <211> 927
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4427							
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<210> 4428
 <211> 975
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4428

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<210> 4429

<211> 384

<212> DNA

<213> *Enterobacter cloacae*

<400> 4429

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<210> 4430

<211> 1131

<212> DNA

<213> *Enterobacter cloacae*

<400> 4430

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<210> 4431

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 4431

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cgggatcttc	cgccgcacgc	tgatttttaac	gacaagtggg	acgatgaaga	cgactggccg	180
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<210> 4432

<211> 1428

<212> DNA

<213> Enterobacter cloacae

<400> 4432

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<210> 4433

<211> 1041

<212> DNA

<213> Enterobacter cloacae

<400> 4433

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<210> 4434
<211> 2067
<212> DNA
<213> Enterobacter cloacae

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<210> 4435
<211> 1542
<212> DNA
<213> Enterobacter cloacae

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<210> 4436

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 4436

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<210> 4437

<211> 1236

<212> DNA

<213> Enterobacter cloacae

<400> 4437

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<210> 4438

<211> 1407

<212> DNA

<213> Enterobacter cloacae

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 <213> Enterobacter cloacae

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<210> 4440
 <211> 909
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4441
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 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4442
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 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4443

<211> 3141

<212> DNA

<213> Enterobacter cloacae

<400> 4443

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<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 4444

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<210> 4445

<211> 1632

<212> DNA

<213> Enterobacter cloacae

<400> 4445

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<211> 1407

<212> DNA

<213> Enterobacter cloacae

<400> 4446

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<210> 4447

<211> 960

<212> DNA

<213> Enterobacter cloacae

<400> 4447

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<210> 4448

<211> 729

<212> DNA

<213> *Enterobacter cloacae*

<400> 4448

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<210> 4449

<211> 999

<212> DNA

<213> *Enterobacter cloacae*

<400> 4449

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<210> 4450

<211> 1290

<212> DNA

<213> *Enterobacter cloacae*

<400> 4450

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tgcatccata	gcattgatgc	attcctggcc	cccatgatga	tcacacaggg	gcagcgcca	180
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<210> 4451

<211> 1383

<212> DNA

<213> Enterobacter cloacae

<400> 4451

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gagattgacc	gctgcataaa	acagttaagc	cgctcaggata	ttcaggatat	tgaattcgcc	300
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taa						1383

<210> 4452

<211> 768

<212> DNA

<213> Enterobacter cloacae

<400> 4452

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gtctggattg	ccgcgcgggg	ccgcgaggcg	ctggcgcatg	ccgcaggtct	ggcagcgcaa	180
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ggcaggtcgg	aggacattat	ggggccgggtg	gtgttcctcg	cctcagacgc	cgcggggctg	720
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<210> 4453

<211> 921

<212> DNA

<213> Enterobacter cloacae

<400> 4453

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cgtctcgaag	atgggtttca	gacctgctg	gtgatgcgca	ccacgcgctc	ggttaaggctc	180
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<210> 4454

<211> 309

<212> DNA

<213> Enterobacter cloacae

<400> 4454

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tctccgataa	cgtggggccc	gtgcagcttc	cgcttaacag	cggggacacc	accgagacac	180
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cgccgctga						309

<210> 4455

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 4455

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gccagacgct	gcaaatccacc	ccacccgatg	cggcagggaa	cgtctcgtgt	cccggtctag	180
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<210> 4456

<211> 1413

<212> DNA

<213> Enterobacter cloacae

<400> 4456

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<210> 4457
<211> 342
<212> DNA
<213> Enterobacter cloacae

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<400> 4457
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gcgaaaaagt ggcgatcctc ggcgcgcaac gcgcgggcaa atcaacctt tgcagcgga 240
tgccggggcg gatgatctg gcggcgcggt aactgcggct cgacaacctc agcctgcgcg 300
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<210> 4458
<211> 1251
<212> DNA
<213> Enterobacter cloacae

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<210> 4459
<211> 1782
<212> DNA

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<213> Enterobacter cloacae

<400> 4459

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<210> 4460

<211> 378

<212> DNA

<213> Enterobacter cloacae

<400> 4460

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<210> 4461

<211> 834

<212> DNA

<213> Enterobacter cloacae

<400> 4461

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<210> 4462

<211> 1950

<212> DNA

<213> Enterobacter cloacae

<400> 4462

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<210> 4463

<211> 2727

<212> DNA

<213> Enterobacter cloacae

<400> 4463

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<210> 4464

<211> 468

<212> DNA

<213> Enterobacter cloacae

<400> 4464

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<210> 4465

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 4465

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<210> 4466

<211> 276

<212> DNA

<213> Enterobacter cloacae

<400> 4466

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ccgcttcaat	caggcgccgc	taacaggcaa	tgccgtagtg	gcgctgagag	agcaaaaaac	240
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<210> 4467

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 4467

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<210> 4468

<211> 891

<212> DNA

<213> Enterobacter cloacae

<400> 4468

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<210> 4469

<211> 984

<212> DNA

<213> Enterobacter cloacae

<400> 4469

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<210> 4470

<211> 513

<212> DNA

<213> Enterobacter cloacae

<400> 4470

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<210> 4471

<211> 588

<212> DNA

<213> Enterobacter cloacae

<400> 4471

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<210> 4476

<211> 2226

<212> DNA

<213> Enterobacter cloacae

<400> 4476

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<210> 4477
<211> 447
<212> DNA
<213> Enterobacter cloacae

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<210> 4478
<211> 681
<212> DNA
<213> Enterobacter cloacae

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<210> 4479
<211> 528
<212> DNA
<213> Enterobacter cloacae

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gcagcatccc	ctgcgaacgc	ctgtgtggtt	gaggaggcca	ttcagggctg	gaaacaggcc	300
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<210> 4480
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

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<210> 4481
 <211> 1773
 <212> DNA
 <213> Enterobacter cloacae

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cgcacccaac	accgattacc
accactttat	tcaaacagcc
gacctcaaaa	agcagcagct
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<210> 4482
 <211> 1011
 <212> DNA
 <213> Enterobacter cloacae

<400> 4482	
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<210> 4483

<211> 252

<212> DNA

<213> Enterobacter cloacae

<400> 4483

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agggagcgct	gcttctctaa	actccacgcg	atagggggca	acgtccgggg	aaggggccca	180
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atagggaagt	ga					252

<210> 4484

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 4484

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<210> 4485

<211> 291

<212> DNA

<213> Enterobacter cloacae

<400> 4485

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<210> 4486

<211> 411

<212> DNA

<213> Enterobacter cloacae

<400> 4486

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<210> 4487

<211> 624

<212> DNA

<213> *Enterobacter cloacae*

<400> 4487

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<210> 4488

<211> 1650

<212> DNA

<213> *Enterobacter cloacae*

<400> 4488

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<210> 4489

<211> 990
 <212> DNA
 <213> Enterobacter cloacae

<400> 4489
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<210> 4490
 <211> 1335
 <212> DNA
 <213> Enterobacter cloacae

<400> 4490
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 gccatgcgca gcatgttttt ttgtggatgc gccctgagcc aaattctcgt cgtctttttt 240
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<210> 4491
 <211> 762
 <212> DNA
 <213> Enterobacter cloacae

<400> 4491
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ctgagcgatg	agatgaaaac	gtccattctg	gcgggcattc	cgccttaacgc	cctcgagacg	660
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<210> 4492

<211> 858

<212> DNA

<213> *Enterobacter cloacae*

<400> 4492

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<210> 4493

<211> 1185

<212> DNA

<213> *Enterobacter cloacae*

<400> 4493

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ttctactgca	acgagccgga	ccacaccacg	ctgcgcctgt	ctttcgttac	cccaacggat	1140
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<210> 4494
 <211> 435
 <212> DNA
 <213> Enterobacter cloacae

<400> 4494
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 gcgacgttgc atgcctctct tttggctgaa agcggcagag gactgaaact caattttttg 360
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 aggatggctg gataa 435

<210> 4495
 <211> 1200
 <212> DNA
 <213> Enterobacter cloacae

<400> 4495
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<210> 4496
 <211> 1296
 <212> DNA
 <213> Enterobacter cloacae

<400> 4496
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 ctaagagcct tttcgacga gtttgataag gtctgcgcc cgcagtttga ggtgacgag 180
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agcgttaccg	aggggatgca	ggggcaccga	cggcgccggc	aaattcgtct	gcgtccgcag	1260
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<210> 4497

<211> 1365

<212> DNA

<213> Enterobacter cloacae

<400> 4497

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cagcacggcg	cgcctcaacg	gatccctggg	gttaaccctg	acgctatgct	tcaggcgcaa	180
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ccggaaactg	ccgcatcag	cggcctgcct	gccattacgt	tgccctgtgg	cgttaagcgt	1260
atcgtctcgc	cgggtggggt	ggagatgtta	tcggtgcagg	aggatgaggg	ggcactgatg	1320
gtgctggcgc	tggcgtgtga	ggggggcgctg	ggcgagaagg	gatag		1365

<210> 4498

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 4498

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<210> 4499

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 4499

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<211> 1632

<212> DNA

<213> Enterobacter cloacae

<400> 4500

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<210> 4501

<211> 1458

<212> DNA

<213> Enterobacter cloacae

<400> 4501

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<210> 4502

<211> 861

<212> DNA

<213> *Enterobacter cloacae*

<400> 4502

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<210> 4503

<211> 903

<212> DNA

<213> *Enterobacter cloacae*

<400> 4503

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<210> 4504

<211> 744

<212> DNA

<213> Enterobacter cloacae

<400> 4504

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<210> 4505

<211> 1269

<212> DNA

<213> Enterobacter cloacae

<400> 4505

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<210> 4506

<211> 1209

<212> DNA

<213> Enterobacter cloacae

<400> 4506

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<210> 4507

<211> 984

<212> DNA

<213> *Enterobacter cloacae*

<400> 4507

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<210> 4508

<211> 372

<212> DNA

<213> *Enterobacter cloacae*

<400> 4508

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<210> 4509

<211> 2427

<212> DNA

<213> *Enterobacter cloacae*

<400> 4509

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tgctggggg gaataaact gggtagctcg tccaccgata cgaacaaca gtacatctc 1860
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cgcgctctcc cgggtggtag ccagggcgga cctatcagct atgtatcacc gaaaaaccgc 2340
aaacagttaca ttctgatctc tgcggcggtt gcacgccagt ccgccggatg tgggtactac 2400
gtgattgcct acgcgctgga taataaa 2427

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<210> 4510
<211> 378
<212> DNA
<213> Enterobacter cloacae

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<400> 4510
ttaaatcggg tacacgcaa ccggcaaaac agcagaagga gcagaccat gcagcagttt 60
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tttctgaagt tctccgacgg ttttcgtcgc aaagcctacg gctctgtatc gattggccgc 180
gttctggggc cgtttagcgc cctgtcgcag cgggtgaaag gcatcgatct gtcogtggcc 240
tatgcgctgt gggggcggtt cggatttgcc gccaccctgg cggcagcgctg gatttatgtc 300
gggcagcgtt taacaataaa agcgtggata gggctggtat tactgctcgc cggcagatgc 360
atgattaaac tggcctga 378

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<210> 4511
<211> 918
<212> DNA
<213> Enterobacter cloacae

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<400> 4511
tactttaaaa atatgaatat tgagctgcgc catctgcgct attttgcgc cgtcgcggaa 60
gagctgcatt ttggtcgtgc ggcggcaagg ctgaatatct ctacgccacc gctaagccag 120

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cagatccaga	tcctggagca	gcaggtcggg	gcgcgtctgc	tggcgcgaa	caacgcgagc	180
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gtggaggagc	ccgcgcgcag	agcggaaacgg	ctttatcttg	gggaaacggg	ggagctcgcc	300
atcgggttta	cctcatcgcc	ccccctttatc	agcgtctgtt	cacaaaacgt	atctcgttt	360
cgccgttaact	ttccggtatg	gcatactcag	acgcgcgaaa	taaataccgc	ggagcagata	420
tcgcgcctta	acgaaggtac	gctcgacctg	ggcgtgatgc	gtaaacgcga	gttgccctgat	480
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ccgctgcgcg	cgacgacacg	cgtcacgctg	gctgaactgg	cgaaagagcc	gtttgtcttt	600
tttgaccac	aggctgggtac	cggttctgtat	gacgatattc	ttggctctgt	cgccgcgata	660
ggccttggcc	cgactatcgc	gcaggagggtg	ggggaagcca	tgaacgatcat	tgggtctcgt	720
cgccgagcttc	ttggcgtatc	gattctcccg	gcctcattta	aacgggtaca	actgctggaa	780
atgcgcctggg	tgaagatagc	cgacgagcat	gcactctcag	agatgtggct	ggtgtggtct	840
aaacatcatg	aaccagagcca	tgcggcacag	cgtttcaaa	aacaattaat	tacgccttct	900
cgccggcatt	atttatag					918

<210> 4512

<211> 687

<212> DNA

<213> Enterobacter cloacae

<400> 4512

ggctctgaaa	tgacaaaaat	aacgcagaaa	tatacggtag	ttgacttatt	acgttgggca	60
agaaaggaa	acttttgaag	atttcagggc	tttgcctaat	ctacatttaa	ccaaacgggt	120
cagctggaca	ttaccgtgct	gctaaagcat	atcaaaagg	ttggctggaa	attttatcct	180
gcgattattt	cccttatctt	tcacgtcgta	aaccggcatt	cggaattccg	tatggccatg	240
aaggatgatg	agcttgtaat	atggaatgag	gttcatccaa	gctataccct	ttccataaaa	300
gaaacggaga	cattttcatc	gttatggagt	cattacgatg	gaaattattca	ccattttcag	360
cgcgctttat	cagaagatgt	tgcccgcctat	ggcaatatcc	ttgcttactg	gcttaaggaa	420
gagtcocggg	agaatatatt	tttcatatot	gatattccgt	gggtcagttt	tagcagtttt	480
aacgttcaag	tcgtataact	cggaattttt	ttgcgcacca	tgttccaggt	tggaaaaaac	540
tataaaccag	atgaaaaagt	cttgttgctc	ttcgcgcttc	aggtccatca	ttcgttttgt	600
gatggtctcc	atgtagccag	gatgatcaac	gagttgcaag	agttatgtga	taattttacca	660
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<210> 4513

<211> 723

<212> DNA

<213> Enterobacter cloacae

<400> 4513

acggttaaatg	atgtgaacaa	atacgcagcg	ataacgctac	tggcaacggg	actgggtggga	60
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ttttgactttg	atctctctgc	cgccgcgggtg	aaggatttta	cccagacgct	attcaacgat	180
aagggtggaag	ttctataaac	tgtagaccgc	acgatgtcaa	cggaagggtg	tttcgatcacg	240
cttgaactcgc	acgatctcga	agcgaataac	ggcgtttgcg	tgggtctgga	tggttaactac	300
tacgtcgtatg	cggaaaaccca	gcagcagaag	gtaaaagtgc	aggggaaatg	ccagctggcg	360
gaactgcgcg	ctgcgcgcct	gacgtgggac	acgcagcata	acgggtttgt	ggttgacgag	420
cacagttaag	agatggaagt	gaagtaccag	tatgacgcgc	acggctaccc	gctgggttaa	480
actacgggtt	ccggcgacca	cggttttatg	gtcaagtctg	tgccctcgaa	agatctgcgc	540
aagcgcgtg	attatacgcg	ggtaagcctg	ttgaacgata	aaccgatggg	caatgtaaag	600
cagagctgtg	attaacgatc	ccacaacac	ccggtgaact	gtgagctcgt	gataaacgat	660
gacagcgtca	aacctgcgcg	tgagcgcaag	tacaccatca	aaaacagcat	tgaattattat	720
tga						723

<210> 4514

<211> 1116

<212> DNA

<213> Enterobacter cloacae

<400> 4514

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cggcactctc	tggaactggt	aaacgaggag	cgaatgatga	aaagcgtagt	gatccaacag	120
ccgaatgcgc	tggaagattga	ggagcgctct	ctcccggtgc	cgggggcagg	cgacgtccgc	180
gtcaaaaatta	agctgcgcgc	tatctgcggt	tcagacagcc	atatctatcg	cgggcataac	240
ccggttgcaa	aatatccgcg	ggtaatccgt	cacgaattct	ttggcgaatt	aga-cgcggtt	300
ggcggaagcg	tggagggcac	ccgaatccgc	cagcgcggtt	cggctggatcc	ggatgatcag	360
tgcggcgcat	gttaccccgct	ttccgtcgga	aaacccgaac	tttgccacctc	gctgggtggtg	420
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catacatttg	actatcacca	cgttacagac	gccatcgaa	gttttgaaaa	agaccagcgg	1080
cagtgtcgca	aagtcttgct	cacgttcgac	caataa			1116

<210> 4515

<211> 2037

<212> DNA

<213> *Enterobacter cloacae*

<400> 4515

acgatgtcgg	tcacaacatcc	tttttttgaa	attagcctgt	tgccttatca	ggcgccacgt	60
ttgatgcga	tcaacgacac	ccattatcgc	ccggcggttg	atgaagaac	gcgctcggaag	120
cgtgcagaca	ttaacgcgat	tatcgccgag	cgcgcgcgcg	cggacttcga	taaacccgtg	180
ctggcgcttg	aaaaaagcgg	ggccatgctg	tcgcgcgttg	cgacgtcttc	ctctgcgatt	240
cctctccgac	acactaacga	tgatcttcag	gcgctggagc	agcagttctc	caccggaactg	300
cgccggctgg	cgaacgatat	ctggctaaac	gatacggcgt	tgaccgcgct	ggaagccgctg	360
tggcaggatc	gcgaggcgct	ggatgcggaa	tcgccgcgac	tgcggaggga	gaacttatcag	420
caactttgtc	ttggggggcg	gcgtctgaac	gcgatgaaa	aagccgagct	gaattctctg	480
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cgcgagcgca	ttttgtcccg	cggaacagc	actgatctag	ctgaacttta	ccggaactcg	1980
cgcggggcac	atccgaagat	cgaaccgatg	ctggagaatc	cgggattgag	tgcgttaa	2037

<210> 4516

<211> 825
 <212> DNA
 <213> Enterobacter cloacae

<400> 4516
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 cgtgaagtgg tagcgatagg caatgactat gtgcagggat ttatgctgcc acagcacaaa 120
 catcgccgcg cgcagctgct atatggcgcg accgatttaa tgcattgcat aaccaggat 180
 ggagagtggg ttgttcctcc acaacatgct gtttggatcc caccgaaac tatgcacgcc 240
 gtcaaatatt ttggcgtgac cactcgcagt ctgtatatag aaccagattt cgtgaatgcc 300
 ttcttaaaat atcctcggtg tgaagtatt agcgtatcgc cattattaog tcagctattg 360
 cttgagtcag tggatttacc gccactgtat gaaagcacgc gtgaccgtgc actgataaat 420
 ctgatgata ttgagctggc ggctatgcgc gtttcgcaat tgcatttcc gctgcccgca 480
 catccggccc tactggctct ttgtcaggcg tttttactca atccctcaat ccatgatcca 540
 gcagagcgct gggcaaatgc gctgttcacg agcgacagca cctttcgctg ccatcttctt 600
 aagcaaatgg gcattgctatt ttctgtctgg cgcacaagcg catgcgtggt tagcgcgctg 660
 gcattgttga taacgggaaa acccgtaaat gaagtagcct tgactcttgg atacgataat 720
 gcatcatcct tcgcaacgat gttccgcccgt gtcacaggag acccccttc gtattattac 780
 ccggcattat tcaaaaagtt ccacgggaca gggcaccgat catag 825

<210> 4517
 <211> 495
 <212> DNA
 <213> Enterobacter cloacae

<400> 4517
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 gggaagagaga aagcgcagat gactcatcaa ctgctcgctt ggcaacagga gcagcgccgtg 120
 gtgatacaat gccctgagtt ggctgcgggg ctacctgttc cgagaccaac cctgagatt 180
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 acagatgatta ccggcgatta tcaaatgtcca gccctggctgg cctctgcgagc agcaacaaga 300
 gcaggatgta ctgctgcttt gttactgat ggtagtccaa cgtgcggaac tcagttttatc 360
 tacaacggtt ctttcagtaa tcagcgtaaa tcgggtatgg gagtgcgagc atcattactc 420
 tccgagcatg gtattgcggt attttcagaa actcagtttg cggagcttgt gaactggatt 480
 gaagaaaggg aatga 495

<210> 4518
 <211> 309
 <212> DNA
 <213> Enterobacter cloacae

<400> 4518
 atatatatag tcatcaacag gaggaatgat atgaaaaaag cactattagg gagtgtattg 60
 gctttaacag tagcaagctt cggcgcatct gcggcagata tgatttccaa ggatgaagcg 120
 caccacttca aacttgaata ccttggtaat gtatctgtag gggcttcagg tggacaaatt 180
 ttctcaacct cagatcttca tcaaaaactc tcaaaaactg cagacagaaa gggcgggaaa 240
 tactacgtca ttatcgctgc ccgcgagcat ggccctaact tccaggccgt cgcagaagtc 300
 ttttaataa 309

<210> 4519
 <211> 1590
 <212> DNA
 <213> Enterobacter cloacae

<400> 4519
 caaagcgaat gtcacacaga caaaagcagg aatgcgattc ccctcttaga ctgcatacac 60
 accctgcgaa gcataacgaa ggagtatcct atgtccgaat cacacgtcgc catcctgccca 120
 ggctgcagc agtttttaga tcgccagcac ggctgtgga ttgaaggcgt tcaggcgcca 180
 tccgacagcg aaaagcgctt gaacgtctac aaccggcgga ccggagaggt tattgcctcc 240
 accgcgcatg ccagcgtcga tgaatgcgat cgtgcggtga tgcctgcgtg gcgcgcttt 300
 gtgcgccgaa gctgggcagg gcgtctgcgc gcagagcggg aacgcactct gctgcggttt 360

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gccgatttgg tggaaacagca tggcggaagag ctggcacagc tcgaaaccct ggagcagggg 420
aaatccattt acatctcccg cgctctcgag ctgggatgca ccttgaactg gatgcgctac 480
acggcagggt tgaccaccaaa aattgccggt aaaaccctcg atctctcgat tccactgcgg 540
caggggcgcg gttatcaggc gtggacgctg aaagacgcgg tgggagtcgt ggcggggatt 600
gtgcgctggc acttcccgct gatgattggc atgtggaaag taatgcccg cctggcgcca 660
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gaactggcga cggaggcggg gatcccggt ggcgtgttca acgtggtgac cgttagtggc 780
gcgctgtgtg gcgcggcgct aacctcgcac ccgcgcatgt ccaagtaag ctttaccgct 840
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caggcggaag ccgtgtgggt gaacagccac acgctgatag acgccaacct gccgttcggc 1500
ggcatgaagc agtctggcac cggcgcgcat ttggcccccg actggctgga tggctgggtg 1560
gaaaccaagt cgtgtgtgtg cgggtattaa 1590

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<210> 4520
<211> 999
<212> DNA
<213> Enterobacter cloacae

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<400> 4520
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gagccgcagg actggatgcc ggaatgcctc cgcaagacgc tgatccgcca gattggacag 180
cacgcccact ctgagatigt cggcatgtgt ccggaaggga actggatcac ccgcgcaccc 240
acgctcgccc ggaagcccat tctgtctggc aaggtgcagg atgaagccgg acatggccctg 300
taccttttga gcgcggcgga aacgctgggc tgcgccggg aggaacatcta tcaaaagatg 360
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cagatgttgc aggacgccat caaccgcttc tgggtggccc cgctgatgat gttcggaccc 660
aacgacgaca actccccaaa cagcgccccc agtctggcct ggaagatcaa acgctttggc 720
aacgattgag ttccgcagcg ctctgtggac aacacggtgc ctacaggtgga gatgctcggc 780
atgacgtgac ggcattccga cctgcgtttc gatgaagaga cgggtcacta ccgcttcggc 840
gaaatcgact cgcaggaatt tgacgaggtg atcaacgggc cggggatctg caaccacgaa 900
cgtctggcgc caaaacgt aa agcctgggac gacggcgcat ggggtgcgtga agccgctctg 960
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<210> 4521
<211> 300
<212> DNA
<213> Enterobacter cloacae

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<400> 4521
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cagggtctgt cgcacgcgca tgtgggcagc cttcacgctg ccgacgacg catggcgctg 120
gaaaacgcgc tgcgtgctta taaccgcgcg agcgaaaggct gttctatctg ggtggtgaa 180
gcgagtgaag tgcgtgcttc ccagccggaa gagagcgggg agttttttgc tccgcggaa 240
agcaaggctc accgccatcc gacgttttac accatccctg atggtagcga gcataatgtga 300

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<210> 4522
<211> 798
<212> DNA

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<213> Enterobacter cloacae

<400> 4522

aggacgctaa	ttgtggaatc	tattctgagc	catgttgagc	agggcgtaat	gaccattacg	60
ctgaaccgcc	cggagcgctt	gaacagcttt	aacgacgtca	tgcaccagca	gctttccgaa	120
tgctctgaagc	agggcgagcg	cgatgacgcc	atccgctgcc	tgctgatcat	cggggcagga	180
cgcggtttct	gcgcggggca	ggatctcaac	gaccgtaaacg	tgcaccggaa	cgcgccggcg	240
cccgaatctg	goatgtccgt	tgagactttt	tacaaccgcg	tggtgcgcgc	cctgcgaaaa	300
ctgcgcgaagc	cggtagtttg	cgcggttaac	ggcgtggcgg	cgggcgcggg	ggcgacgctg	360
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gccgcggaaa	ccaacacctt	cgacgcccg	cttgatctgg	agcgcgacta	tcaacgcctg	720
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<210> 4523

<211> 1332

<212> DNA

<213> Enterobacter cloacae

<400> 4523

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<210> 4524

<211> 963

<212> DNA

<213> Enterobacter cloacae

<400> 4524

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<210> 4525
<211> 615
<212> DNA
<213> Enterobacter cloacae

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<400> 4525
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<210> 4526
<211> 1548
<212> DNA
<213> Enterobacter cloacae

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gatgcggcgg cgggtcagcg ttgggggacgc cgtccacgcc attcgtcgcg gtcctggcaaa 180
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<210> 4527
 <211> 1227
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4527
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<210> 4528
 <211> 3942
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4528
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<210> 4529

<211> 1062

<212> DNA

<213> Enterobacter cloacae

<400> 4529

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<210> 4530

<211> 1290

<212> DNA

<213> Enterobacter cloacae

<400> 4530

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<210> 4531

<211> 699

<212> DNA

<213> Enterobacter cloacae

<400> 4531

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<210> 4532

<211> 351

<212> DNA

<213> Enterobacter cloacae

<400> 4532

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<210> 4533

<211> 1254

<212> DNA

<213> *Enterobacter cloacae*

<400> 4533

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<210> 4534

<211> 1437

<212> DNA

<213> *Enterobacter cloacae*

<400> 4534

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<210> 4535

<211> 1476

<212> DNA

<213> Enterobacter cloacae

<400> 4535

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<210> 4536

<211> 2148

<212> DNA

<213> Enterobacter cloacae

<400> 4536

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<210> 4537

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 4537

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gtgaaaatcg	agcatgaaat	ccatatcaag	gtggataaag	acgttgaagc	cctgctgaaa	180
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<210> 4538

<211> 594

<212> DNA

<213> Enterobacter cloacae

<400> 4538

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<210> 4539

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 4539

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<210> 4540

<211> 1581

<212> DNA

<213> Enterobacter cloacae

<400> 4540

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<210> 4541

<211> 1290

<212> DNA

<213> Enterobacter cloacae

<400> 4541

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gaattgcacc	gacgcggcgg	gcgtacgcg	ctgtgtacga	tgtgcatcgg	tgtgggtcag	1260
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<210> 4542

<211> 1986

<212> DNA

<213> Enterobacter cloacae

<400> 4542

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<210> 4543

<211> 948

<212> DNA

<213> Enterobacter cloacae

<400> 4543

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cggttaacct	ggttgcccga	caagctggcg	ctcgactggg	aaccgaaagg	gattgccgtc	720
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<210> 4544

<211> 753

<212> DNA

<213> Enterobacter cloacae

<400> 4544

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<210> 4545

<211> 963

<212> DNA

<213> Enterobacter cloacae

<400> 4545

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tga						963

<210> 4546

<211> 546

<212> DNA

<213> Enterobacter cloacae

<400> 4546

acgaacatga	caaaactcac	cttacaagag	cagatgctga	aagcgggctt	agtcagcagt	60
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aaaaagatgg ccaaggtcca gcgcacggcg aaaaaatccc gcgtccaggg tcgcgagggc 120
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gtggcggtga aaattgtccca acgcgatgcg gacagcattg tgcttaacag cgcgctgagt 480
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<210> 4547

<211> 846

<212> DNA

<213> Enterobacter cloacae

<400> 4547

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<210> 4548

<211> 984

<212> DNA

<213> Enterobacter cloacae

<400> 4548

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<210> 4549

<211> 432

<212> DNA

<213> Enterobacter cloacae

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 gcagcagttt ga 432

<210> 4550
 <211> 456
 <212> DNA
 <213> Enterobacter cloacae

<400> 4550
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 gtcccgggtg agctgatggg tgaagatccg gaggctggca cgtctatacg cgtttttacg 360
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<210> 4551
 <211> 459
 <212> DNA
 <213> Enterobacter cloacae

<400> 4551
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 ctgcgctacg ccaactattc ggtgttagtg gtccgctaa 459

<210> 4552
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 4552
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 taa 183

<210> 4553
 <211> 2646
 <212> DNA
 <213> Enterobacter cloacae

<400> 4553
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 cctgtttgaa cgcgcatcgc gtttgaagaa agcccacggc tcacgcgcca cgcctgctc 180
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<210> 4554
<211> 348
<212> DNA
<213> Enterobacter cloacae

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aatttgcccg tcgacgaggt ggccgaaatg cggggacaaa agctggtggc gcgcgcccg 300
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<210> 4555
<211> 774
<212> DNA
<213> Enterobacter cloacae

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<400> 4555
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<210> 4556

<211> 1200

<212> DNA

<213> Enterobacter cloacae

<400> 4556

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<210> 4557

<211> 513

<212> DNA

<213> Enterobacter cloacae

<400> 4557

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<210> 4558

<211> 978

<212> DNA

<213> Enterobacter cloacae

<400> 4558
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<210> 4559
 <211> 483
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4559
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 tcccgatttc ccgacggcaac cgccgaggac gccgcgaagg ccaattgacg gccagagcgc 180
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 gcgaaggtag tgcgtactat tcagagcgac agtcgacatg ccaaggggcga aggtatggc 480
 tac 483

<210> 4560
 <211> 1668
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4560
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<210> 4561

<211> 1452

<212> DNA

<213> *Enterobacter cloacae*

<400> 4561

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<210> 4562

<211> 696

<212> DNA

<213> *Enterobacter cloacae*

<400> 4562

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<210> 4563
 <211> 2091
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4563
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<210> 4564
 <211> 231
 <212> DNA
 <213> *Enterobacter cloacae*

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 cacagcgacg gccttaatgc cgagcaggtg cgtcgtggta aaacggttga agtggaggaa 180
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<210> 4565
 <211> 939
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4566

<211> 348

<212> DNA

<213> *Enterobacter cloacae*

<400> 4566

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cattgtgcc	acgatctttt	caaaattttg	tacaccgcga	ccagtagcgg	caactaccgc	300
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<210> 4567

<211> 270

<212> DNA

<213> *Enterobacter cloacae*

<400> 4567

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<210> 4568

<211> 783

<212> DNA

<213> *Enterobacter cloacae*

<400> 4568

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<210> 4569
 <211> 672
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4569
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<210> 4570
 <211> 1503
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 4571
 <211> 1461
 <212> DNA
 <213> *Enterobacter cloacae*

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 ataaatacag tatttattaa cgggtgatcat aatgcagttt ttaccccccac ctggcgatac 180

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<210> 4572

<211> 996

<212> DNA

<213> *Enterobacter cloacae*

<400> 4572

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<210> 4573

<211> 1209

<212> DNA

<213> *Enterobacter cloacae*

<400> 4573

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<210> 4574

<211> 858

<212> DNA

<213> *Enterobacter cloacae*

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<210> 4575

<211> 1041

<212> DNA

<213> *Enterobacter cloacae*

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<210> 4576
 <211> 2502
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4576

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 <211> 2037
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4577

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<210> 4578

<211> 1158

<212> DNA

<213> Enterobacter cloacae

<400> 4578

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<210> 4579

<211> 438

<212> DNA

<213> Enterobacter cloacae

<400> 4579
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<210> 4580
 <211> 951
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4580
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 cctaccgtac agctgagcta ccgactgcta caggagagca tgggcaatgc cgcattcagc 540
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 cagcaaccagc aggtgtctgc gcgcaaggag cgtcagttcc gccacgttct gtcctgatt 660
 gatgatcata ttacgtcaga ggcgttaaga ccggagtgga tagcttcaga gacggcgatg 720
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 aagaacgcgt gccctgattt atgcgttcag gcgctgcgct ccatcagaga taacgaaaag 840
 ctggcgggca ttggctacag ctggggcctt accgaccata gccatttttc caccgccttt 900
 aagcagcgtt tcgggggttc gcggggcgaa taccgtaagc gttaccgcta g 951

<210> 4581
 <211> 1020
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4581
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 gactttctgc tgactgaaa gcgcgctaaa accgctcacg gctgcgaagg cgtggtgata 180
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 ggtctgaagg tcgttcgcgt ccacgcctat tctccggaa cgtggtctga acatgcgcgc 360
 gggatgatga tgcgtcgaac ccgtcgtatt caccgtgcct atcagcgcac ccgtgatgct 420
 aactctcttc tggaaaggct gaccgcgttt accatgtacg gtaaaaaccgc aggcggtgac 480
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 aataccagcc gcggtggagt gatcgactct caggccgcga tcgaagcgct gaaaacgcaa 780
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 ttgtttcacc gccacacggc gtttttgacc gcgaagcgct tgatcagtat atcgaaaacc 960
 acgctgggga atttacaaga gcttgataag ggcgaagcgc gccctaaacg gatcgtttaa 1020

<210> 4582
 <211> 840
 <212> DNA
 <213> *Enterobacter cloacae*

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<400> 4582
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aaccagatgc totttttccct tgcagaagcg tcccgctgca tgcacctcga ccgtcgctggt 180
catggtcggt ccgatccagg aagtgaaggc catgatattg atcattatgc ctccagcgcc 240
tcggccgtgg tcgaaagcct tgatttgcgt aatgcagctg acgtcgccca ctccaccggc 300
ggagggccagg tcgccagata cgttgccaag tacggccagg ctccagggcg ggtggccaaa 360
gcggtacttg tcagcgccgt tccctccgtg atggtaaaat gagacacgaa ccccgccgga 420
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ctacaggata agctgctgcg aaacacggaa ctcaaaattt atccaggctt cccgcgatgg 780
atgcatacca cgcattgcga taccataaac ccgatatac tgacatttat tcgctcataa 840

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<210> 4583
<211> 696
<212> DNA
<213> Enterobacter cloacae

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<400> 4583
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aacgttgcgc ccggtaccaa agtgcgtgctg ttaagcgaac gtgacaaaca actgcacctc 180
gatccgtgat tctgggggta cgcgcctgga tgggtgggaca aagcaccaat gattaacggc 240
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atctgctttg cgcgatggtg gttcgaatgg aaaaaggaa ggcacaagaa acagccgtat 360
tttattcctg ggccgacggg gcagccgata ttcattggcg cgatcgccag taacggctt 420
gagcgcgccg atgaagccga gggatttctc atagtgaact ctgctgcgga taaaggctc 480
attgatatac acgatcgacg gccgctgggt ctgtcgccag aagcagcaag agaattggatg 540
cgacaggatg ttggcgggaa aaaagcggaa gagatcattg ccgacgggtac agtaccgcgc 600
gacgagttta tttggcatgc gtbaactcgc gccgtgggga acgtgaagaa tcaggggggc 660
gagttaatcg aggtggctca taaaatggaa aaataa 696

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<210> 4584
<211> 852
<212> DNA
<213> Enterobacter cloacae

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<400> 4584
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tttgcttttg gcggcggtct tctgctagtg ccatctgctt atcaactaat gtcacggcag 180
accgaactcg cactaaacgc catgcataat gccgttgcta cctctacatc ggtgatgata 240
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gattgttttg tgcgtaaggg ttttctcgga ggaagtcttc tgcgtcgctt gtcatttctc 480
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cctgatattt ggcaacgcag aatcatgtgc atgctgctgt tccgtggtgt actggcgatg 840
ctatttcagt aa 852

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<210> 4585
<211> 609
<212> DNA

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<213> *Enterobacter cloacae*

<400> 4585

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gaatttcaga	tcattatctc	accggagcac	caggggaaaag	gttttgcgtc	gcgagcggca	360
aagctggaga	tggattacgg	gttttaacgtc	ctgaattctct	acaacgcttca	ccttatcgct	420
gacaaaagca	acgaaaaaagc	gattcatatc	tacgctaagc	tgggtcttat	ggtggaaggt	480
gaactgatcc	atgagttctt	tattaacgcg	gaataccgta	acaccatagc	catgtgcgtc	540
tcccgatcgc	agcatctggc	cgggcataag	tctctctcgc	ccagcctgct	taaaaccacc	600
gcgcagtaa						609

<210> 4586

<211> 2325

<212> DNA

<213> *Enterobacter cloacae*

<400> 4586

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gccataggat	ctctggcgct	tgcgcgcggt	gggatcgcat	taacctttgg	tctgaaaage	120
gcgcgcgcgc	ctgtgcagtc	cgctatttcag	ccgcacgaag	ataaagtctg	ctggggcgcc	180
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tattgggttg	aaacggataa	taccggcgag	gatgtttacg	gcacacatca	ggttcgcgcg	300
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<210> 4587
 <211> 621
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4587
 ccgatgacaa cccagatattg atttttttatt gattccagccg gctgcaccgg gtgcaaaacc 60
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 aaaaaacacg gccagcttgc tgccgtcgcg ccgctgccct ctgcgcactt cacaagaagg 540
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<210> 4588
 <211> 723
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4588
 actgattggc cgtgggctat tttatggtct gcatatgacc gcagggttag caattgcagg 60
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 tcacaccggc aatcgttctg gttcagcgcc cgggtactgg gcgcgctgtt ttatttgcgc 180
 ccagacagcg agcagatcgc gccgctgggt agtgccctga ccgcaggtga ctggggttcag 240
 gactggccgc tggcggaagg aaacctgctg cctgtgcaca gtatgtttaa gaccccatcg 300
 gatgaagcgt tgaagaagcg ctggcagcgt ctgtttattg gcccgatgc cctgcgcgcgc 360
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 gtattcgttg aaaaacggcg ccactcgttc tacaccgcgc tgggtaaact tgcccagctg 660
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 taa 723

<210> 4589
 <211> 291
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4589
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 gagagcgata aagtcgacaa ccgcaagggtg acgttcgaga accgatacgg gatcaccttg 120
 gctggcgatc tgtacattcc caggaaacagc ggccgaccga tctgtgcttc tctctctgtc 180
 gttgtgaaat acacctatgt ctacactgaa tcaaatccca tcccgctcca gcgagcatgc 240
 ataactggcc ggtatttatg ccgcgcagtc tgctcgcgtc atcagcaata a 291

<210> 4590
 <211> 738
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4590
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 aaggcgccgc aggttgacct gatctacctc gggcaacagc aacctgattct ggtcttttca 180
 tcaatgttct ttgcctgctt ggtgggcatt ccaagcggta ttttcgtgag ccgtccagcc 240
 gcgcgtggta tcgcgaata tggatgcaa atctttaacg tgggtaaac cctgcgcgcg 300

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gttcccgcgt	cggttctgga	agcggcaaac	ggtatcgga	tgacaaaatg	gcagcgccgt	480
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ctgattttcc	ctgggatctc	cctgaatgac	ttcccgagcg	tgatcctggg	cgccggcgcc	660
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<210> 4591

<211> 912

<212> DNA

<213> *Enterobacter cloacae*

<400> 4591

caaggagctt	ctatgagact	gttttccggc	ctgacggcgc	tatgcgcgcg	cgcgctcttc	60
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<210> 4592

<211> 1338

<212> DNA

<213> *Enterobacter cloacae*

<400> 4592

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<210> 4593
 <211> 843
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4593
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<210> 4594
 <211> 438
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4594
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<210> 4595
 <211> 2298
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4595
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 gcaacgctgt tgcatacgcc gcagcgcgca cgcgcggcgg cgtcggcgcg cgtgagtgcc 120
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 cagcatgatt ccgcgccggc cgaagccggc gcgcgccacg cgatggaaca accggaggtt 480
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<210> 4596

<211> 666

<212> DNA

<213> Enterobacter cloacae

<400> 4596

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cgcgcgggta	ttcacaaaaga	taccccaacc	gacctgggtg	cgccgtacat	gacctgttcc	540
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<210> 4597

<211> 1299

<212> DNA

<213> Enterobacter cloacae

<400> 4597

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tacggctacg	ccgtgcggcg	gggaacgcgt	ttcctgcgcc	tggaactcgg	caaccgttgt	180
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aatatctgac	cgacgtctcc	gottattacc	ttctcgtttt	gctgtgcgcc	tatggtctcc	720
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<210> 4598

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 4598

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gtgacggtta	agccaatgca	agcgaacggc	ctgaacacgc	acgccagcaa	aagcgaccgt	180
gaaaagctta	accgcgatgt	cgaggagatg	ttcgaaagagt	cggatatgtg	gttgatacaa	240
gagtaa						246

<210> 4599

<211> 897

<212> DNA

<213> Enterobacter cloacae

<400> 4599

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acaacacaaa	aagcgtttgag	gaacagttag	atgattattt	tagttaccgg	ggcgacagcg	180
ggttttgggt	aaagcatcac	gcgtcgcttc	gtcgcccaac	gacacaaagt	gattgcaaac	240
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gcacagctgg	acgtccgcaa	cccgcccgcc	attgaagaga	tgattgccaa	cctgcctgcc	360
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gatatcacgc	aaaccgtctg	gtgggtcgcg	aatttgcgca	agcatgtcaa	catcaaacgc	840
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<210> 4600

<211> 708

<212> DNA

<213> Enterobacter cloacae

<400> 4600

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acgccactct	cagaaaaaga	ggtttcggtta	cgttttgacg	tttcccgctca	gcccgctgcg	180
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cagctgggac	acgagtttca	ccagaaaaac	gcgcagatcg	ccgagtgcca	ctgcgcgtgg	480
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gtttctccgc	cagagatgtt	gctgcgccag	catcatgata	ttttcagcgc	gttgaaaaaa	600
cgcgcagctg	aagccgtaga	taaagcgatg	acgcttcacc	ttcaggaaat	tagtgagtca	660

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708

<210> 4601

<211> 372

<212> DNA

<213> Enterobacter cloacae

<400> 4601

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agcaaaactc	tcatttgagtc	tggtagacag	gogcaaaagcc	gccagaatgc	tggcattggac	180
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gagtgggata	aagaagacgt	cgcgtttgat	gcccgcgaca	aatgccagca	aagtggcaac	300
gtcaacgctt	actgggagcc	taacaccctg	cgtgtctctg	atcgtcgcac	tggcgcgacg	360
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<210> 4602

<211> 927

<212> DNA

<213> Enterobacter cloacae

<400> 4602

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gggcagtgcc	tggccggcgc	gttaatcgtg	atgggcttcg	tctggcttaa	agaaaaatgat	180
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<210> 4603

<211> 453

<212> DNA

<213> Enterobacter cloacae

<400> 4603

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tacagtatac	gggggtgcac	aatggctggt	gaacaaaaat	ttgttgtcgt	aagaaaaggt	180
gaagaaaaaa	tgcattttgc	cagtaagaaa	gaggctgacg	ctcacgacaa	actgctcgat	240
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gcgcgaaacc	ttggtctgta	tcttgccgag	cagaaagagt	cgtgcagca	tctcctgcgt	360
accagcaagc	ttcccagcgc	caatgctgca	acggataaaa	cagcatcaga	tgcggatagc	420
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<210> 4604

<211> 1257

<212> DNA

<213> Enterobacter cloacae

<400> 4604

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gttgctgtca ccaacaatt ttccagagaa tccgaagggg attcgataat gataaaactg 120
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<210> 4605

<211> 1416

<212> DNA

<213> Enterobacter cloacae

<400> 4605

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gottaccccc acatcccgcg gatgtttcgc cgtctctctg tgcctaccgt caacggcggtg 180
ctggcgcgcg tggcctgttg ggtgttcgag cacagcatgt atctgtctga gtggctattt 240
ctcagcaacg aaagcgggaag tctgggtgaa gccgcagccc cgtttatcgc ctggcgcgcg 300
gcgctgacgc ctgcgctggg ttgtctgccc gcggggatgc tgctgtgggg atggcagcgc 360
atgacgcgac aacgctccca cgcgccagcc gattatatgg aagcgttga gacggctgac 420
ggccagtttg actacggcgc cagcctggtg aaatccctcg cgtcgttctg ggtggtcgcc 480
agcggcagcg ccatcgccgc tgaaggcgcc atgatccctg tgcgcgcctt ggcgcctcc 540
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```

<210> 4606

<211> 1065

<212> DNA

<213> Enterobacter cloacae

<400> 4606

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ataaaaaact gttcaggaac gtccatggcc aaacctatta tcacctcota cgggcttaag 60
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atcatcgtgc cttttatcct ggcgcttttt atcgcggtga tctcaatcc actggtgcag 180

```

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cgaatggtgc ggtgcgcgat cccgcgtgtg ctggcgataa gcttgccttat cagtattatt 240
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acgctaccga cataccgcgtc ttccctggcg accccgcgtgc tgcaaatgta accctggctg 360
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gccatgacga ttgtcaccag cctgctggca caactctcca acgcatgac ctcgattttc 480
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gtttcacgct atctggtgtc gaaaacggcc atcagcctgg tgacgggatt agtggctctg 660
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ctctccgctt ccgtgacaat tattgtcaaa attggcctcg agcagacgcg cgggtggaaa 1020
agtatcgctg tactgtctgag cgacatgagc cataaggcgc attaa 1065

```

<210> 4607

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 4607

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caggtaacat cagcaatggc tctgatcccc aaaaactacg cagcgctgga aagcggtac 60
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tattcaaatc ttctgtaact caggtttcac catatcgacc acgatcacac caataacccg 180
gaagatggca gtaactggga gctgtttgct ctgtttttgc acgatcacga gcaactcaag 240
tacaccgaag cggatcagta tggcaccacc gttgtcgcgg gtgaggatgc gcaaaaagac 300
gtgggtgtcg ccacgtttta cccctttgcc gatctcaagg cgatgatgga caagaagaag 360
taa 363

```

<210> 4608

<211> 1038

<212> DNA

<213> Enterobacter cloacae

<400> 4608

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aagacagtgg gatgcgctat ggcgattttt gatggtcaca atgacctgtt gcttaattta 60
tggcttcacc atcgcaggga tccggttaac gcttatttct ccggcattga aaacggacac 120
ctcgattatc cgcgcgatga gcaaggcgga ttttccggcg gctgtttcgc gctgttctgt 180
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cgggcgcgat tgtgctgag cgcggcgat atcgaacgct gccgtcagga taagggtgct 360
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gagggtatcg ccttcattaa gcaagctaat gccctgaata tgcgtattga cgtttcgcat 600
atgaatgaaa aggcgtttct ggataccgct cgtcattctt catcacgcgt ggtcgccacc 660
cactccaacg ccatacgtc gtgcccgcga ccgcgcaatc tgacggatgc gcagctgctg 720
gctatcccg acagcggcg cgtggctggc gtoaatctgc gcaacgcgtt tctgcgcgc 780
gacggtatac gcgatagcga taccgcgctg agtaagattt ttgcacatag cgaactatct 840
attaacatca tgggtgacga tcatgtcgcg ctgggctcgc attttgacgg tttatcgtt 900
cctgatgact taacgatgt gagtggttta ccacggctaa tcagcgcgtt gcgtgacagc 960
ggctatgac aatttgtgtt gaataagctg ctgtggggta actggcaaaa ggtattgcaa 1020
aatgtttggc aacaatag 1038

```

<210> 4609

<211> 843

<212> DNA

<213> Enterobacter cloacae

<400> 4609

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tttgagcaacg	cccttcggg	gaaagcgccg	tactatcata	ttcaccatcc	gtaccatatac	180
gcgatgcata	acggcgaggc	cagcccgagg	cagatccagg	gctgggtggc	gaacccggttt	240
tactaccaga	cgaagatccc	actgaagagc	gcggcaatta	tgccgaactg	cccgatccg	300
cacacgcgtc	gcaaatgggt	gcagcggatc	ctcgatcacg	acggcagcaa	cggtcatgac	360
ggcggttagc	aagcctggct	acagctgggc	gaagccgtgg	ggctcagccg	cagggaactta	420
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cccgccgcgc	ccaactggca	ggagcgctga	tcacggaact	gttcgcccgc		540
caaatccatc	agtcgctgct	cgacagctgg	ccacagcaact	acccgtggat	caagaggga	600
ggctattttt	atttcgcag	ccgcctcagc	caggccagcc	gcgacgttga	acatggttgc	660
gagctggcga	agcggtattg	cgatagcgcg	gaaaagcaga	atcggtatgt	ggagatccct	720
cagttcaaac	tcgatatact	gtggctgatg	ctcgacgcca	tgaccatggc	ctacgcgcta	780
cagcgctcgc	cttatcacac	ggtaaccgac	aaagcgccct	ggcacaacaac	ccgactggta	840
taa						843

<210> 4610

<211> 1185

<212> DNA

<213> *Enterobacter cloacae*

<400> 4610

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cttactgct	ctaaccgcgt	ggacttcgcc	cggcaggatc	aggagctgac	cactgaacag	180
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ggcgaaccgt	tgacgcgtta	ggatctgcgc	gagctgatcc	gcgcgcgcgc	cgatctcggt	300
ttttatacca	acctgatacc	ctcggaat	ggcctgacgg	aaagcaagct	cgacgcattc	360
agcgagccgc	gtctggacca	tatccagatt	agcttccagg	ccagctatga	agagctcaac	420
gctcgctgga	cggggaataa	aaaagccttc	cagcagaagc	tgccgatggc	caaaagcggt	480
aaaagcgccg	attaccgcgt	ggctgctga	ttcgtctcgc	accgcataaa	tatcgatcag	540
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tgccagttct	acgggttggcg	gttccttaac	cgtcaggggc	ttctgcccgc	gcgggaacag	660
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ctcgaggcgc	gacgcgaagc	agcctgtagt	gatattgaaga	tcggtcagct	tcagtttcgc	1140
aaccgaaccc	gttctcagct	tatctataaa	accggggaac	tgtaa		1185

<210> 4611

<211> 465

<212> DNA

<213> *Enterobacter cloacae*

<400> 4611

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gtaacgcttc	ctcgggttaa	aatccttgaa	gtgcttcagg	ggccagacaa	tcacatgtc	120
agtgcggaag	acctttataa	gcgtcttata	gatattgggt	aaagagattg	gctggcaacc	180
gtctatcgtg	tgctgaacca	gtttgatgac	gcgggacatt	ttactcgtca	taatttcgaa	240
ggcggttaaat	ccgtgttcga	gcgtactcag	cagcaccacg	acgatcacct	gatctgcctc	300
gattgtggca	aggtcattga	atttagcgat	gattccattg	aatcgcccca	cgctgaaatc	360
gccgcgcgtc	atggcattcc	cctgaccaac	cacagcctgt	acctgtacgc	tcactgtgct	420
gaaggtgatt	gccgcgaaaa	tgaacatg	cacgacgcaa	aataa		465

<210> 4612

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 4612

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ttcaagagcg tgctgaatgt gttgaaaaaa gagaaagcgc atgagcagtt tgcgacgcag   120
gaaaatgttc cgtgtatgga ttaccaggcc tgtatccagg cgcgggaaac cgttaacgat   180
caggaagtgg cgaagcggtg cgataagatc tggaacgaga tacgcaataa caataaataa   240

```

<210> 4613

<211> 425

<212> DNA

<213> Enterobacter cloacae

<400> 4613

```

aaattgactc catgtacaac ctgcgcctgt attcacgcct cggctcgtct aacccgctct   60
acagcaccgc aattggtaaa gtactgctgg cctggcgcgga tcgcaagag gtgaagcaga   120
tccttgacgg ggtggagatc aaacgcagca ccgaccgcac cattaccagt accgatgaac   180
tgctgagcgt gctggataat gtgcgtgagc agggttacgg ggaagataac gaagagcagg   240
aagaggggct cgtgtgcctc ggtgtgcegg tatttgaccg ttctggcggt gtcattgccc   300
gcctgagcat ttctgtccca acgctgcgtt tctctgaaga cgcgtctcat gaatatgttg   360
cgatccctga taccgcagcg cgcaaaattt cagagcagat gggctataac gattatccgt   420
tctga                                     425

```

<210> 4614

<211> 356

<212> DNA

<213> Enterobacter cloacae

<400> 4614

```

actatggcga catttcatat cagcttttaa aaattacgaa gatcagaagg taaattcttcg   60
gtttatttat ctgcatatca aaaccgagaa aagacaaaag ataactgaac cggggcaacc   120
tggtgattat caaaaaaaga ggtatttttc ggctctgcta tctctctccc tgcgggcaca   180
cctgcgcgaac ttgtgaagga ctcaggcacc ctctggaatt ccgtgagagg tggcgagaag   240
cgaaaaggat cggaactatg ccgttatctg gacatagcca ttcccaagga gctggagcac   300
ggccagaaga agcagatcgt cctcgattac tgccaagaaa atttcgtgga ttatgc       356

```

<210> 4615

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 4615

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atgagatata tacatatgtc tgaatatatt aaagtatttc tggcggttatg ctcttttgtt   60
ttacttggtt cgctcgccca tgcggccagt tcaggtagca tcacctttac cggttcgggt   120
aacagtgaag cctgtgcggc gggtgtaaat aacggtaatg cagatgcgac agtaacatta   180
cccgccgcat cgacatcagc attaagtgca gcaggagcga cagccgggggc aaccacattt   240
acgattaatt taacggctg tgaattttat ccaagcgggg cgaagggtcca gcgctacttt   300
caa                                     303

```

<210> 4616

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 4616

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attatgttgt ctgcgcgcgc tgggtgaagc cagatgaaca tcccgatatg ctttgccgat   60
aacggcggtg cgcttgaagt accggcagat aaagtgcacg agcttcgcct cgcgtctgcc   120
cagcaggggc tgccaaaagg cggcgcggtt ggggttgagc tgctggatca ggaaaaatto   180
ggcatcagtc agttcagcga gcagggttaac taccagcgcg cgttggaagg tgagctggcc   240
cgtacagatg aaaccttagc ccgggtgaaa agtgcccgtg tgcacctggc gatgcctaag   300
ccgtccctgt ttgtccgcga aaaaagtcc cttctgcct ctgtgaccgt taacctcgaa   360

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```
cctggccgtg cgetggttcc cggcggggta atgcgggtcc acgaaagccc catcatctgt 420
tccaccagcg ccgccacgct gtgcccgcca agacgataa 459
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<210> 4617

<211> 477

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (58)

<400> 4617

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gatccgtcgc gcgtgaagat gctttgtgcg ctaatggacg ggcgtgcgtg gacggccact 120
gaactgagtg cggcggcaga cgttgcgcgc tcgaccgccca cggggcatct tgcccggctg 180
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ccgcggcga cagcgcgcgc gccaggttcc aggttaacgg tcacagaggg agaaggggac 360
ttttgttcgc ggacaacacg ggacggctta ggcctcgcca ggtgcacacg ggcacttttc 420
accgggccta aggtttcaat cgtacgggcc agctcacctt ccagcgcgcg ctggtag 477
```

<210> 4618

<211> 744

<212> DNA

<213> Enterobacter cloacae

<400> 4618

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cgtttactgg gcaaaaaaaga gccacgggta aacgcaccgg ttctgtgatt atatatgtgg 60
gggtggcgtg ggcgggggtaa gacctggctg atggacatgt tctaccagag cctgcccgcc 120
acgcgttaagc agcgtctgca ctttcaccgt ttatgtgtgc gggctcatga agagctgacg 180
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aaactgtggc tggcgtggc aggggcgcgc cgggataagg cggcagcgct ggagattaat 600
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ctctgcgtgg acgcgccgac ccagcatgac tacggggccc ttccacatct gggctcgaac 720
cagccggata gaatgatata tgggt 744
```

<210> 4619

<211> 339

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (97)

<220>

<221> unsure

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<222> (161)

<220>

<221> unsure

<222> (334)

<220>

<221> unsure

<222> (336)

<400> 4619

tggcgtaact	gtgtcagaat	agagacttct	cttttcacga	cgccagaatg	tatgaaagcg	60
atcactcttt	atgacgttgc	cgcggtggca	ggcggttnnn	nnnnnnnnnn	nnnnnnnnnn	120
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nggtccggca	ggccatggcg	180
gcgctacact	atgtgcccaa	cgtggcgcg	cagcagctgg	ccgggaaacg	caccgcacg	240
ctggggctga	tgaccagcga	tctggcgcta	catgcgcgt	cgcaaatggc	ctcaggtctt	300
cactctcgag	ggagccggaa	cgcggaagt	actntntaa			339

<210> 4620

<211> 426

<212> DNA

<213> *Enterobacter cloacae*

<220>

<221> unsure

<222> (7)

<220>

<221> unsure

<222> (58)

<400> 4620

atcccgntgc	gtcacttccc	ggggctgggc	attatcagta	aattgattgt	attgtttntg	60
ccggcagatg	cgtcaatggc	ggtgatccct	gagctcaatt	cggcgcccg	gcgcataacc	120
ctgctgtgtt	ccggcattgt	ggttaacgcc	cttgccaccg	ggatgtatat	cggcgcgggt	180
tttggcgag	gcccgcgcga	cggcctgatg	acgggcatac	acgcccggct	gggctggctg	240
atccgcagcg	tgcgtaccgc	gacgcaggtg	actgtgttga	tcgtcggtga	cctcctcggt	300
ggagcgtttg	gcgttggaac	cgtgctgtat	gcattaacca	tcggcccgct	gatccagctc	360
tgtttgcctg	ggtttcgcca	gagaccgcgc	attcagaaag	ctgcacagcc	ggagcggatt	420
gttttaa						426

<210> 4621

<211> 385

<212> DNA

<213> *Enterobacter cloacae*

<400> 4621

ttcgctttgt	ggagattggc	agcgctcttt	aatgatgatt	acaatggcaa	aaaatttagg	60
tttttccaaa	gcaacattgc	gtaaggtggg	agcgaatagt	gatggtgatg	gctttttatg	120
ctttgtcgca	cacggaaata	gcattggagc	agtgatcgct	gatggctcta	ctgttgcgat	180
aaactgcgat	gacaagcgta	tcgttgatgg	taaaatttac	ggcatcaacc	aaggtggatg	240
gaaaagggtta	aaaatcctct	acagatctgg	gccagataag	gtgacaatca	gaagctataa	300
ctctgatgaa	taccctgatg	aagaagtaga	catggatagc	cttgagggtt	taggaagact	360
gttttgggta	tcaacaattt	tctga				385

<210> 4622

<211> 1290

<212> DNA

<213> *Enterobacter cloacae*

<400> 4622

cgcctcttcg	gtgatgccat	gcgccagttg	cagccaaaaa	cgaatcgcgt	ttttgggtggc	60
cagtatcata	ttgccggagc	tgacgtgaag	tacgaacctg	ccacgcaggc	agacggacag	120
ttcgcgtcaa	aaggcgaggt	gatcacccgc	aaatgggtgg	aagcagaaca	gctgttcggc	180
tgcctctcgt	agttcaatgg	cgatgtgtca	ctgcaaccgg	ggcttggtaca	cgcgcggaat	240
ggcgccctgt	tgtcatttc	ccttcgcacc	ctgcttgctc	agcctctgct	gtggatgcgc	300
ctgaaaaacg	tggtgacgca	gcaacgtttt	gactgggtag	gctacgacga	ttcgcgtccg	360
ctgcctgtat	ccattccgtc	tatgcgcgtg	tcgatgacgc	tcgtgctgac	ggcgacccgt	420
gaatctctgt	ctgatttaca	ggaatgggag	ccagaactcg	cggagcaggc	tgtctatagc	480
gaatttgaag	ataatttaca	gatgcgcgat	gcgatgaca	ctgtccagtg	gtgtccattgg	540
gttatggcgc	tgggcggaacg	tttcgcactg	ccctgcctcg	ccgaggaatg	gtggccggggc	600
ttaatccgcg	aggcgtgacg	ctacactggc	gatcaggaaa	ccctgcgcgt	ctccccgctc	660
tgatcggtta	aacagctcgc	tgaagtgggg	gttatcagcg	gtaacggtcc	gtttacccgt	720
gagcagctta	gccagatgct	ggcccagcgt	gaatggcgtg	aagggttatct	tgtcgaccgt	780
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caaatcaacg	ccttgctcgt	catcgagtgc	ccgcgacacc	cgcgcgcctt	tgttgagcct	900
tcctcgtaac	gctgtgtcgc	acacattggt	gacggcgaat	ttaccgatat	cgaccgcga	960
gccgaactcg	gcggaaaact	tcattgccaa	ggcatgatga	tcattgcaggc	gttcctgatg	1020
tctgaacttc	agcttcgagc	gcgatccccc	ttctctgcct	cgcttgcact	cgctgacgtc	1080
tacagtgaag	tcgacggcga	cagcgcccca	atggcggagg	tgtgtgcctg	gatcagcgcg	1140
ctttgcagcg	tgccgattaa	ccagaatatt	gcgattaccg	ggtccgtgga	tcagttttgc	1200
cgtgcccaac	cgtggggcgg	actgaatgag	aaaatcgagg	gttcttcgca	atctgcgtct	1260
tcacccacgg	gggctggagg	gtcatgcgct				1290

<210> 4623

<211> 1028

<212> DNA

<213> Enterobacter cloacae

<400> 4623

agacgggtta	gtccattgtg	cgcgcctagt	aattttttac	tagggcagcg	cacactattg	60
aagtttttgc	cggttttgcg	tcgtgaagat	acttttcaat	attggtttac	ttattggcat	120
ctggcgcatc	agctttcatg	ggttacaacc	tgccatcggc	atccggtagc	ttgtgaaagc	180
atccatgtcc	cttcttcacc	gcacatacgt	attggactga	tgccctcctg	ttcgtataca	240
gaaccaactc	gcaatgagat	agacttcgat	tttgctaagt	tttgttatga	gtccctaaat	300
ataatcagaa	gaaaagatat	tacacacccc	aattacatgg	atgtaactaa	aaagtgtgaat	360
ttattatcat	tggatggaaa	tttaaaagaa	aatgtattct	acgcacatgt	ttatgctaag	420
tgccagttaa	ttgggggggg	tttcatcgga	cttataccaa	catccctaac	tgattatcat	480
tactgcggagc	ctatactcaa	agacaaatgt	tgtcagcatc	ccacaaagca	tcttttgctt	540
tgttatttgt	tgtaaaatac	tttctggcca	acgtatgcag	gaagtgcgtac	taataaaaag	600
aaagaaatct	ttaaaagttc	taagaataac	agttttcata	tagttgaaaa	taataactagt	660
gttagcaacc	ttgggaagga	atttagtcgc	agcagatggt	acattaaaac	acttatttat	720
aaaaaaatac	tgagggcggt	taagcgaaac	acaaaaatta	atatattacc	tgaatttgct	780
atcaagtcta	tggtctgaag	gggttttagt	ctggcatcca	tagctgagaa	aaactcatta	840
tcgggaaggag	ctgtatccct	tgtaatttca	tcttggtacc	gtttatgctc	atggcgctaa	900
aaatgtaaaa	aagattcttt	aagacggcgt	cataagcaga	aaatatttaag	atttatcat	960
aatcaatcgc	tttctataac	acgaaagtta	gtcaatcttc	acgacggggc	tgaaggagaa	1020
cgcgctac						1028

<210> 4624

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 4624

acctgtcagc	cogtggtgaa	gatgtctgag	aaacgtgctc	agtcctgtagt	tgattacctg	60
gtatctaaag	gtatcccaag	taacaagatc	tcgccacgtg	gtatggggca	atctaaacca	120
gttaccgggt	ctacctgtga	caacgtgaaa	ccacgcgctg	cactgatcga	ctgcctggca	180
ccagatcgct	cggtagagat	cgaagttaaa	ggtatcaaa	acgttgtaac	tcagccctgcg	240
gcataa						246

<210> 4625

<211> 483
 <212> DNA
 <213> Enterobacter cloacae

<400> 4625
 acagaggttac acggttaacac tgagatcgca atgaatatc aacaactgga aaacctcgaa 60
 agcggctgga aatggaagta cctgggtcaaa aagcaccgtg aaggggagct gatcacctgc 120
 tacatcgaag ccagcgcggc gcaagaagct gtggatatgt tgcgtgaccct cgaaaaacga 180
 ccggtactgg tcaacggctg gattgagaaa cacattaatc cgccctgttt aaaccgggatg 240
 aagcaaaacta tccgtgctgc tctgaaacgg catctcaatg ccgagcatca gcacaccctg 300
 aagaaatcca tcgacctgga gtttatggtc tggcagcgctc tggccgggct tgcgcaacgg 360
 cgcgggaaaa cctctgtcga aacgggtggtg cagctgattg aagatgccga gcacaaagag 420
 aagtatgcga gccagatgtc gacgctgaag aacgatctac aggcactgtt aggtaaaaaa 480
 taa 483

<210> 4626
 <211> 198
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (109)

<220>
 <221> unsure
 <222> (131)

<400> 4626
 atttccaagc aaattaaaat tattggtgag gcggccaggc gggattacaa cgtgaccgaa 60
 gtgcgccaat tgcgtgtacac gtttccagtc ggccggggtt tccagcccnq gggaatatc 120
 ccggcgagtc ntggggaggg ggagtttagg gtattggaga tttttatccc gtccgcggca 180
 agcgccctgt gggatatga 198

<210> 4627
 <211> 822
 <212> DNA
 <213> Enterobacter cloacae

<400> 4627
 ggtattggag atttttatcc cgtcccgccc aagcgcctgc tgggtatgac cgagccaggc 60
 aaggcattgc tgacctcgc tgagcgcatt ctcaacgagg ccggcaacct tcgccggctg 120
 cgggatctct ttaccaacga cgttccgggt gtgatgacta tcgccaccac ccatacgag 180
 gcgcgctaca gtcttccgac ggttatcaaa gcatttctgt agatcttccc ggaagtagct 240
 ctcgaaactga tccagggcac gccgcaggaa atcgaaagtgc tgatgcataa cggcgggggc 300
 gatagcggtg tcgccagtga acggtcgagc aacgaccgcc tgctggtggc gttcccgctg 360
 ttccgctggc accacagcct gctgttacc ccgatcacc cgctgaatca ggtttcgccg 420
 ttgacgctgg aagagatcgt caaatggcgc ctgattacct accggcaggg cattaccggg 480
 cgctcgcgca ttgatgaagc gttcaagcgt aaagggtcca cgcgggacgt ggtgctgagc 540
 gcgcaggtat ccgacgtgat caagacctac gtccaggttag ggtcgggggt tggcctggtg 600
 gccgagcagt tggcgggaga atatgagccc ggaatatctg tcgctctgga tacgctcac 660
 ctgttcgatg cgaataccgt ctggctgggg ctaaaagcgc gccagcttca gcgtaaatc 720
 gtgtggcggt ttattgagct atgcaacgcg gggtgctcgg ttgatgagat caaacgccag 780
 gtgatggagc cgggaagaggt ggcgattgat tatcagattt ag 822

<210> 4628
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

<400> 4628

gatacggctgc	agtcgatggt	cggggcatta	cgtaacggga	actatagcgt	cggtattggg	60
tggttgccgt	aggatctgtc	gcaagaggaa	catttgcgtc	tgactgaagc	ggctgaagaa	120
ggtaacgcga	tggttttcat	catcgcgcca	gttcgtggag	attcctatcg	cagaggacaa	180
catcccgggc	taaaaattca	ctcaaatgtg	taccattga			219

<210> 4629

<211> 426

<212> DNA

<213> Enterobacter cloacae

<400> 4629

ataacacaaa	tcttcattga	gtttatcatg	ttcaaatcga	tcatgaccgt	atcactgctg	60
gcccgcgcga	ttgcctctac	cagcgccagt	gcccgcagaca	attcagcggg	tggtatcatt	120
aaactttaccg	gcgctattac	cgatacaacc	tgtaccatta	acggcggtaa	aagcgcgagac	180
tttaccgttg	cgctttcccc	tatttcggtg	aaagatgcag	gcaccacggt	tgccctgatc	240
actaagaata	aaaaatctat	tgccgtgact	ttctcaggtt	gttcaccagc	agccgggaacg	300
acgggacccc	cgctgaaagt	gtatttctcc	agcgcggata	atatttccac	tgacgggtaaa	360
tacctgctga	ataacagcgt	gaacgaaagc	gatgccagcg	tggcacgtaa	tgtcgggtttt	420
gcgtta						426

<210> 4630

<211> 1026

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (1017)

<400> 4630

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cgcgatcgcc	cacgtgctcc	ggtagaccgc	cggtatcgcc	cgccggtgtg	ccccgccggg	120
ttcgaccgca	ctccgacgca	ccggcgccgg	atcgctggcg	aggtgcatat	cgccaaaggtc	180
cagttgggga	tgagcgacga	cgactatgtc	gcggtccctg	tccgcgcgac	cgggcggaacc	240
agcgccggcg	agtgcaccga	ccgcgagctc	gaacgacgcg	tgccggaatt	caagcggtctt	300
ggcttcgagc	cacaggcgcg	ctcgccgaaa	gcggcgaaac	cagcggtatc	tcctctcgct	360
ctgaaggcgc	ggcgctgtgt	gatctcgctg	catcacctgt	gcgcgatcgc	cgaccgctcc	420
gaaaagtcgc	tggaaggcct	cgccgcccgc	cagctcggct	gcgatcggtg	ccaatggggc	480
aaccagtcgc	agggccaccg	cccgatcgag	gcgctcaagg	cgatcccgcc	cgctcacggc	540
tggaacctcg	ccatggatgg	ggtagaacct	gagggcggtg	tgatcgtaac	caagcgccgg	600
ctggtcgagc	cgatcgcccg	ccaagctgcg	cgccgcccgc	atcggtccgg	acgggtggag	660
cgagcggga	atcgcacggc	agctgaccgg	gatcgaggtc	gactcgatcc	tggtcgcaac	720
cgacggggaa	ctggacccga	tgccccagcg	gccccggcgc	caagctgcgg	gcggcgatgg	780
agggccgggt	atgatcgccg	ccgccaccgg	cggatatgtc	gtgctgtatc	gcggcgccga	840
gctctccggc	ggatgtggcc	gctcgacgtg	gctggctgga	cggttctcgg	cggaatgcgc	900
atggtgccac	ctcgcgctgc	cccttgccgc	ggccggtccg	gagcggtatg	cggcatgacc	960
accagacccc	agatcgcttc	gcgggaacga	cagattgagg	agttggccgc	gaggccngtt	1020
ttttag						1026

<210> 4631

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 4631

tgctgtcttc	gtgtccctgc	tgctgcgcgt	cggcctgctg	tttttttggc	gcgtgtgctg	60
gtcgagcgct	ttccgctgtg	ccctcggttt	ctgggcccgtg	tttccctcgg	ggctggtggc	120
ctgtatatag	gcctcgctac	tattccgctg	atttttgaca	tcattaaaga	cgattgaagac	180
atctgcccca	acgcctgggt	gattaaactt	accaaccggg	ccgggatggg	caccgaggga	240
gtctatcgcc	ataccggttt	caaacgcttt	atcgcgctct	gc		282

<210> 4632
 <211> 345
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4632
 atcgcggttcc ctgcagctcc cgtcggttta agacacttga aggtttccgt gattcgggtt 60
 cttgtatttcc cgtctctgga attttggctg gtggatgttg atgatgtgtc ggagttgctg 120
 attttttttt ttgtttctgt ctttccgttg gttgattttg cgggcgtacc cttttccttg 180
 cttttttctg ttgttctgtc cctggctctg tttgatgttg tcttctgttc ctccgtctgtg 240
 cggctggccc tgggtttttt ttggcgctg tgcctggtcga gcgctttccg ctgtgcctcg 300
 gttttctggg cctggtttcc ttgggggtg gtggcctgta tatag 345

<210> 4633
 <211> 687
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4633
 tttgccaaacc agcgcgagcg ccagctcactc tttttctcca ccacettcga ggtgatgggg 60
 caacttaacca aatcaaaagg gcgcgttaac gaagccgata ttcaggtggc cagcgtcttt 120
 atggatcgca tgaactctga cggcgaaatcc cgcacgcag cgcagaatgc gttccggatt 180
 ggtaaatcag ataactaccc gctgcgtgaa aaaaatgcggc agttccgtag catctgtttc 240
 gggcgttttg atttaattcg gatgtttctg gaaattcaaa tccaggccgc ctctcgggat 300
 gggtctctgc atccgaatga acgggacgtt ttatatgtga ttgcgaaga gctgggcatt 360
 tccgcctatc agttcgacca gtttctcgct atgatgcagg gcggcgcgca gttttggcgtt 420
 gggtatcagc aacagcactc ctccggcggc ttgcagcagg cgcagcgttg cctacgcctt 480
 gaagatgcct gcaacgtcct cggcgtgaa cgcctctgac atgtcaacag cactcaaacg 540
 gccatcgta agctgatgag cgagcaccat ccggataagc tgggtggcga aggcctcgcc 600
 ccagagatga tggagatggc gaagcaaaaa gctcaggaaa ttcagaaagc ctacgagctg 660
 attaaagagc agaaaggttt taaataa 687

<210> 4634
 <211> 579
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4634
 gcggcgctca acgtcccgga cagcgtgttt tatacctctg cgatggcgac cgcggatttc 60
 ctgaagcgctc aggaaggcaa aaaaagcctat gtggtttggtg aaggtgcgct gatccacgag 120
 ctgtataaag cgggcttcac catcacccgac gtgaaccggc actttgtcat cgtggcgcaa 180
 acgcgcctct ttaactggga gatgatgcac aaggcagcct actttgtcgc caacggtgoc 240
 cgttttatcg ccaccaaccc ggacacgcac ggtcgtgtgtt ttatcccgcc ctgcggtgoc 300
 ctgtgtgcgc gtatcgaaaa aatctcgggt cgttaagcgt ttgttgtcgg taaaccgagc 360
 ccgtggatta tccgcgcgcg actgaatacg atgcaggcac actcagaaga aaccgtcatt 420
 gtggggcgaca acctcgctac cgtattctct gctggcttcc aggcgggggt tgaaccatc 480
 ctggctcctt ctggcgcttc acagcttgat gacattgata cgtatccgtt ccggccaagc 540
 tggattttacc cctctgtcga cgaatcgac gttatttga 579

<210> 4635
 <211> 345
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4635
 aacgcttgcc ccccccctcc tttttggcgc attttcataa gcaagcaaca tcacaacgca 60
 acaggggttaa cggagaaggt tatgtgttct atttttggcg tactggatatt taaactcgac 120
 gcggcggaac tgcgtaaaaa agcaactcgaa ttgttccgcc tgatgcgcca tcgcggtccg 180
 gactggctcag gcgtttacgc cagcgataaa gogattctgg ctacagaaag tctctccatt 240
 gttgatgttc acgctggcgc acagccgctg tataacgaga aaaaaagccc cgcgctggct 300
 gtttaacggg aaattttacca acatcaagcc ctgccccccg aataa 345

<210> 4636
 <211> 684
 <212> DNA
 <213> Enterobacter cloacae

<400> 4636
 agatttaatta tgaatatatca gttcttttgg tcttcaacgc ctaaaatata tgagctttta 60
 ttaaatctaa caattgggaat agctattata aattatttgg ttccactga acaagggaaa 120
 atagggtttt taataaattt atgcatgttg ttaagttttt taactacttt aggtataggt 180
 coagttttct caaattttgt aagcagatca aataattaca atctaatctt agggaaagttc 240
 aaggatagta tttcgcttgc cttttgtggc talattgtat ttttagttat atcttttttg 300
 cttatttata taataaagcc caatctttta attcttgcta ttcccttttt gctagggaaa 360
 tttttcttta gcctcgatat ttattataat ttltgttgaa gtcaggggcg attttaaagat 420
 tatgcaattt caaaattctt ttctttgaca ttaataaaat gcttcagatt gtattgtgtc 480
 gttcaaaaaa ttgatgtctt ttgggtagct gtttcatact ttttaactga ctctcttacc 540
 tttttcatgt attttatctt ttatgataag ttaaagcttt taggattccg ttttaattat 600
 aaaaaatcgt tagttttatt aaagataaat tataagctcg ctctgtcttc actacgaagg 660
 tgcggagcc gcgatatcac atcc 684

<210> 4637
 <211> 594
 <212> DNA
 <213> Enterobacter cloacae

<400> 4637
 cccattgcc gactgtgtga ggactatcct attaaatcct gttcgggtgat cgcccatatc 60
 cgccaggcca atcgcgcgga agtggcgctg gaaaataccc atccgtttac ccgtgaaactg 120
 tggggcgcta actggaccta tgcgcacaac gggcagctct cggtctataa atcactggaa 180
 accggcaatt ttgctcctgt cgggaaacgc gacagcgaaa aagcattttg ctgctcgtct 240
 cacaagctga ccgagcgcta ccccgtagc cccggcaaca tgaccccggt ttttaaatac 300
 atagcgtcac tggcgctcta gttacgcgag aaggcgctct ttaatatgct gctgtctgac 360
 gggcgctacg tgatggcgct ctgctcgaca aatctgtctt ggatcacccc acgtgcccgc 420
 tttggcgctg ccacgctgct cgatcaggat gtggaaattg attttcagaa ggagaccaca 480
 cogaacgatg ttgtcactgc cattgcaacg cagccgctga cgggcaacga aacctggcaa 540
 aagatcatgc caggcgagtg ggcgctattt tgtctcgggg acccgctaatt ttga 594

<210> 4638
 <211> 987
 <212> DNA
 <213> Enterobacter cloacae

<400> 4638
 acgttgatct tccagcgccc gtgcgtgaag atcttatctt tggcttcaact gctcttcatg 60
 gcacctgcgc ctttcgcgcg aaccacctgg cccctcacga tggaaaaatg cggcgtaaaag 120
 cagactctta cgcaggctcc tcagcgcgctc gtgacccgtg gtcagcatga aacagaatta 180
 ctgcctgcac tggggcttga gaaaaccatc gccgcgacgt cagctctggt cggcagcgt 240
 ccaccacgcg tggaggtatc cgggaaaaac ctcccccggc ttgcggatta ttccccctcc 300
 tttgagggcg ttgttagggc gaaacctgaa ctctgttctc cgcagtatca ctggcacatt 360
 ggtcccgca gagaagtggg aaccctgtaa cagtttgcgt cgctggggat taatacgtgg 420
 atctccctcg cgttccctgc ggataaaaac gtaaccggaa cctcaaacgc agacggagca 480
 cgtagcgccg ccgttttcaact ggcggaattt agcggggaag tgacagatct ggcgacgatt 540
 tttgatgttt ccgcgcgagg tgacagctc aatcgtgcgc tggcgagagc tattaataaag 600
 gccacggcgc gcgcctccgc gaaacaaact agcgtcgtat tctggttctc cagcagccgt 660
 ctgaattggc atccctgggt ggccgggaat tacgcgcgcg ctggctggat tagccgcacg 720
 ctggggttga agaaccattat tgactctcac gacgaatgac cgtgtttaac ttgggaaact 780
 attgcgccat ccgacgcgga cgtgattgtt atcgccggga tgtcccgag gctctatcct 840
 gccgatgagg ttgaggtaaa aaaagcgttc ttgcgcagtg acccggtgac aaagaacatg 900
 cctgcggtca ggaacaacca catcatcgtg gtgccagcga tgtcggtaaa ccttcatgt 960
 cgtaacgtcg atcggttga gcttacc 987

<210> 4639
 <211> 222
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4639
 ggctacacac gtgctacata ggccatatac aagagaagcg acctgcgcag agcaagcgga 60
 cctcataaag tgcgtgtagt tccggtatgg agtctgcaac tgcactccat gaagtgcgaa 120
 tgcgtagtaa tgcgtgatca gaatgccacg gtgaatacgt tcccggcgct tgtacacacc 180
 gcccgtaaca ccatgggagt gggttgcaaa agaagtaggt ag 222

<210> 4640
 <211> 1035
 <212> DNA
 <213> *Enterobacter cloacae*

<220>
 <221> unsure
 <222> (105)

<400> 4640
 ccaagcgccc ggccgagcgg cgccatggag ctggacaatg ccaacaacgt gggcggttat 60
 ccgggttaca gcattaccaa cctcgcgcgg ttctgcgaag ccagntatga cattgacgcc 120
 atcacctcga gcggcgcggt ggcgttatcag tacaccgaaa acaaggtgga cgattttgtc 180
 ggttacgccc agcagcagcg aatcgccacg ggcaaaagcca cctcgcgtga ccgggtgccg 240
 ggccggaaaa ccgaactacaa caactctctg tttaacgcgg ggatccttgg acgtctgacc 300
 gaacagcaac agctgtggtt taactctctc cagggcttcg agatccccga cctggcgaaag 360
 tactacgggt ccggcaccta tcagctggtc gatggtaact atcgtctgca aaacagcgct 420
 aatgtgaacg actcaacgct ggacgggatt aagggtcaatg cttaacagct cggtggcg 480
 ttaccggcgg ataacctgcg tacccagggt gcgcataact actcgccttc tggataaaacc 540
 atcaccatca acaagagcga catgaccatc aacctggagg acgacaaaag tegtattcat 600
 ggggttgaag ccaggttga ctattctctc acgcagacgg actggagcac cggggcgaa 660
 tttaacgcca tcaagtcgga aacgcgtgaa aacgggaaat gggagaagct gacggctgac 720
 agcgccagcc cgtctaaagc cagcgcatgg gtcaactggg cgccggcgga ctggacgcta 780
 cggtgacaga gcacacaaac ctttgacgtg tctgacgcgg acggttaagaa gattgatggc 840
 tataaacagg ttgatttctt gggtagctac gccctgcccg tgggcgaaatg cagcttcagc 900
 gtggagaacc tgcgtggaca agactacacc accgcctggg gccagcgccg accggggctg 960
 tatagcccaa cctacggcgc accgggtctg tetactttat tcttctccac gaggcgccca 1020
 agaatacgca gaaag 1035

<210> 4641
 <211> 614
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4641
 cggaacaata aaatacaacg tatgaaaaaa cgtatcccga cctctctgga cacaatgatt 60
 ggacacgcgc tgtatagcca acagggggtc gcagccgcat tgcctcgcga gtgtatgctt 120
 ggcttcccga gttacaatcg ccaactgggt aaaggcgata cgaatgactt acccgtaacc 180
 attaatgcgc acagcgcaaa aggtataatt cctgacaatg caacctttac gggcaatgtc 240
 gatattaacc agggcaaacg tgcctgtggt gcgacgaag tgaattgata ccagaagcaa 300
 ccggaagggt ctcaggcgcc gtcccgtaag gtggatgagc tgggtaattg gcaatgatgc 360
 gacaatcagg tcacctctga aggtccgaaa gccctggcga atctgaatca caaagacacc 420
 aacgtctggg aaggtgatta ccagatggct ggtcgtcagg ggccgggtac ccggagcctg 480
 atgaagcagc gccggcaaaa ccgctacacc attctcgaaa acggcacggt taactcctgt 540
 ttgccaaagt caaataacct gagcgttgtg ggtagtgaa tgatccacga ccgtgaagaa 600
 caggttgtag agat 614

<210> 4642
 <211> 366
 <212> DNA

<213> Enterobacter cloacae

<400> 4642

```

gtggaacaaa caaaattatg gatttcatta ggcactattg tcagccctat tactggaacg 60
tttttcacca agataattac gcaatataac cataaatacc tgctctggta taatggagaa 120
tatcttatac aacccgggtg taacattaag gttatacaaca acggaattgt tatatcagaa 180
aaattacgga agattaatat aatacaaaatt gacaagata gcccgcagct ctggcgagtc 240
atgcacaaca tgtccagctg cctctggcat aaagaacctg aaaattcatt ttgtacatcc 300
tcctgcctgt gtattttcaa aacctgcctt tatggttaaga aacgagagaa cgcagtgtaa 360
cgctga

```

<210> 4643

<211> 801

<212> DNA

<213> Enterobacter cloacae

<400> 4643

```

gaactcggcc actacaataa aagtttggga tggttgtcat tattcgcagg cactgtatta 60
ctcagtggtt gcgattctgc actactagac cccaaggac agattggact ggaacaacgt 120
tcattgatac tgaaggcttt tggcctgatg ttgatttggg ttattcctgc catcttgatg 180
gctgttggtt tcgcctggaa gtatcgtgag agcaataaag atgcgaagta tagccctaac 240
tggtcacact ccaataaagt ggaagctgtg gtctggacgg taectattct gatcctcctg 300
ttccttgctg tactgacctg gaaaaccact cagcactgtg agccgagcaa acccgctggt 360
cacgatgaaa aacctattac cattgaagtg gtctccatgg actggaaatg gttcttccat 420
tatccagaac agggcattgc taccgtgaat gaaatcgctt tcccggcgaa cactccggtt 480
cagttcaaaag tgacctccaa ctccgtaatg aactccttct tcatcccaag tctggcgagc 540
cagatttacc cgaatggccg tatgcagact aacctgcacc tgatcgcgaa tgaagcagcg 600
acctacagcg gtatctcccg cagctatagt gcccgggctt tctcgggtat gaagtccaa 660
gctatcgcta cgcagacccg cgcgactttc gaccagtggt ttgcaaaagc gaaacagtct 720
accaaacaca tgtctgacat ggcggcgctt gaaaaagtg ctgcacctag cgaatacaac 780
aagggtggag tacttctcta a
801

```

<210> 4644

<211> 441

<212> DNA

<213> Enterobacter cloacae

<400> 4644

```

cctgcaaccc ggcctttccc tcaatgggtt aggtgccctg gcacaggcgg cgttgacctg 60
cgacagagtg gtgcaatttt gatgaagcgg gtatgcgtttg tttttacttc tgcgcgcgat 120
ggcagcgctt caggcccgga agggctggat gcaattgctg cgacatcggc attaaccgaa 180
gatatcgagg tcttcttttt aggcgatggc gtattccagg ttctttcagg ccaacaacgc 240
caggccattc ttgcgcggga ctacatttgc acctttaaag ttctgcgctg ctatgacatt 300
gaaaccttct atgtgtggcg cgaactcgtg gccgcggcgt ggttaaacga gaaaacaccg 360
ttcgtgcctg acgtgacgat cctgacactt gctgcgctgc gegaacaact ctctcactac 420
gataccgctc tgactttctg a
441

```

<210> 4645

<211> 441

<212> DNA

<213> Enterobacter cloacae

<400> 4645

```

ataattcccc cgggttccaa aagcggggac ttttttggg acaagacaag taatgcgttt 60
tgcgttaaat gtgacggggc ccggcgtagc gtaccacgac gggccagcag ccgggtacag 120
tttgcctcat cgtgccttga tgccggtcat gaactggcaa gcgtcttctt ctatcgtgaa 180
ggggtctata acgcgaacca gtttacctcc ccggcgagcg atgagtttga ccttgtgcgc 240
gcctggcaaa aattaaacga aacgcagggc gttgacctgc atatcttctg ccgcggcgga 300
ctgcgtcgcg gcgtgacgga tgcgacggaa gccgaacgac ttggtctgac gggggctaac 360
ctgcaacccg gcttttccct cagtgggtcta ggtgccctgg cacaggcggc gttgacctgc 420
gacagagtgg tgcaattttg a
441

```

<210> 4646
 <211> 615
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4646
 cataagttgg atcggcagcg ccgtggtgaa gaattaagga ttattttcat ctacttttcc 60
 gacgtatttta atttgtatcg tgactcgcat gtaaaatata agcagttctta tcaaaattcc 120
 atccgcgcgacc ccctcaccgcg tctttataat cgcagctatt tctatgatcc attaaatcac 180
 gcgctaataca cggccaccgtg gacacatccg gtatcggtgg tegttagcga tottgaccgt 240
 ttttaaacgca ttaacgactg ctacggctcat ttgcaggggg atagggtttt acagtttgtc 300
 tcaaacctgtg tgacgcgattc ggtgcgcacgg caggatatcg cggcgcgagg cgggcgcgaa 360
 gagttttgtc tcatgctgac aaatacacgg tccgatgtcg cgcatacagg tgcggaacgt 420
 attcgctcga agttgagcgg gtttgacaag gccagcagcg gtgggcagct tccggaaccg 480
 attaccatta gtatgggagt attcaccgct acctcgccgg aaaccagcgc tgaaacctgt 540
 gtggaaagcg cggataaagc catgtacgag gcaaaaagaga cgggcccga cggggtggtg 600
 gtgttcagaa catga 615

<210> 4647
 <211> 390
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4647
 agacgtgtctc tgattgacca tgccttgaaa cctctggaac tcacacagac gcactggggt 60
 acgctgcaca acatccatca gcttcgcgcc gatcagtcac agatccaact gccaaaaagcg 120
 atttgtatttg aacagcttcc cctggtgcgt acccttgacc agctggaaga gaaggagctc 180
 atctcccgac aaacctgcgc cagcgaccgt cgcgcgaagg ggatcaaat gacggaaaaa 240
 gcggcccgca ttattactga gatggaaccc gtcatcagta aaacgcgagg ggagatcctg 300
 gccggtattt caccgcgtga gctggagatg ctgatcgagc tcctgcgccg tcttgagcaa 360
 aacatccacg atttacagtc ggcgcgactga 390

<210> 4648
 <211> 468
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4648
 cgctctggaag gaagtaaaac gcacagggaa tggcgcgttc ccgttgtcag gcagctgcgt 60
 ttgcgggttgc agctttctct gtcacgggca acagaagctg gagccgggccc aaaaagataac 120
 ctttttcgatg tcagttttta cattgcgcga agaaaaggcaa agtttgaag agtttgatgt 180
 agttgtgatgc atcaaaaagt ccgtcttttc tttegcagcc ttgcaaaagg gtcggggttt 240
 gcggttttca cgcaccgttt cagacacact gttgccacgg aactgatgaa agcccccga 300
 aggaattctc aactggttaa agatttactg ggtcatcgta gtgctcagta aacaatggaa 360
 tacgtggagc tcaggatgga cattgtggga aaaacactgg aagaagaact gtctctgcac 420
 acagatctct gtgtagaag ggaattacaa ctattgacac aaaactga 468

<210> 4649
 <211> 402
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4649
 tcttggaaacc ccaatgagtt gctgacgggc aaaacggaat gtaataagtg tgaggaggct 60
 tcacccgggaa acgtgacggt gaagaccata gaagggttcg tacggaatgt tcttttctat 120
 ggtgaaatcg ccgggagcgg ggttaaaaaa ggtccctggt ggctgattat attaaagcgt 180
 tggttacaaa aaagcctgac cggcggtatc agtcaacttc accccgacca gtataatggc 240
 ccgtgtctct tagtgattgg ccgcctcgtg attaaagatc atggcgccgc caatcagca 300
 gattttacgg tccgattgga acaggcagtg caggcggtgc agcgtcaagt ccctcagagg 360
 atttgcgcct gcctggggtc tgtattagct aaaagtact ga 402

<210> 4650
 <211> 519
 <212> DNA
 <213> Enterobacter cloacae

<400> 4650
 gcggtcatgt atacgaagat tttaggtacc ggcagctacc tgccaaaaca agtgcgtacc 60
 aacgcgcgac ttgaaaaaat ggtagatacg tctgacgagt ggattgtcac gcgcacaggt 120
 atccgtgaac gtctgtatgc cgcgcacgac gaaactgtgt ccaccatggg ctacgaagcc 180
 gctcagcgag cgtcttgagt ggctggcatt gataaagaac agatcgggtt tattgtgtgtg 240
 gcgaccacct ctgccacgca tgcccttccca agcgcagcgt gccaggtgca gaacatgctc 300
 ggcatcaaa gctgcccggc atttgatgtt gcagcagcat gcgcgggttt caccatgca 360
 ctgagcatcg ccgatcagta tgtaaaatcg ggccgcgtaa aatatgcgt ggtgatcgcc 420
 gctgcagctg tggcgcgtac ctgcgatcca accgatccgc gcacgatcat tatttttggc 480
 gatgtcttgc ccagcccggt gaaaaatccgt atttgcgtt 519

<210> 4651
 <211> 789
 <212> DNA
 <213> Enterobacter cloacae

<400> 4651
 caggtcacgc tcaccaatga taacggcaag ctggacattc gtctgaccgg cccgtggcgc 60
 gaggtgatca ttggggaagt gccgttctgt gccgtgatca gcgagctggc ccaccgctat 120
 cgctccctcg aaaccgggtg gcgcagcgcg gtgcgcgcgc tggagaataa actcgttgag 180
 ttttccagac tgaccgaagg gctggatatg tcccgcttcc gtctgatgga ctttggcacg 240
 cgcgcgcgtt tttctgcgca ggttcaggaa gccattgtca gacgtctgca acaggagccc 300
 tggttcgttg gcaccagtaa ctacgatctg gcacgtcgcc ttgatattaac gccgatgggc 360
 acccaggcgc atgaatgggt ccaggcgcac cagcagatta gccctgacct tgccaacagc 420
 cagcgcgcgc cctcgcgcgc gtggctagag gaatacccg atcgctggg tattgccctt 480
 accgactgca ttaccatgga cgcattctct gcgcacttgg gccctgagtt tgccgaacgc 540
 taaccagggt tacgccatga ttccggggac ccggttgaaat ggggtgagaa agccatcgcc 600
 cattacgaaa agctgggtat cgacccaatg agtaagggtc tggctcttct cgataaacctt 660
 gatctgtcaa aagccgtcga cctttatcgc catttctcat cgcgggtgaa cctgagtttc 720
 gggattggta cgcggttaac ctgtgatatc cctcaggtga aaccgctgaa catcgatca 780
 aaactcgtg 789

<210> 4652
 <211> 522
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (104)
 <400> 4652
 acttctgacc agacagttac caaccagaaa cagcagattg aagaagctgg ctatcaggtt 60
 tctaagtgtt tcaccgatga agctgtatct ggtggcatta agntacaga cggtaaaagt 120
 ttcagtgaac tgcgaacta tgcctgtgaa ggtgacacgc tggttgttat cgggatagac 180
 agattaggcc gtaataccac gcacgtatta tccacgggtg agactttaca ggctaaaggt 240
 gtgaagggtt tcagctctcg tgaagggttc gaactgtcta caccagttgg taaggctatg 300
 ctcaactaga tggctggatt agccagctctt gaaaaagact tgatagcaga gcgcagaaca 360
 gcagggatta aacgtgctca gctctgaagg gttcactgtg gcagacagat taagcaact 420
 actgaacagg ttcaagaaat gattgcacaa ggttatctcc ctgctcaggt acaggaagag 480
 ttaggaatca gtaaggcgac ttctatctgt ctgaataagt aa 522

<210> 4653
 <211> 651
 <212> DNA

<213> Enterobacter cloacae

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<400> 4653
tgcatgaatc ttatcagtat ttccgccttt caggacaatt acatctgggt tttagtcgac 60
gacgatcgca gatgcatcat tgttgatcca ggccaatccg caccgatccct gcacgcgata 120
aaagaaaacg gctggcgacc tgaagcgatc ctacttacc atcaccatca cgcacatgct 180
ggcgggtgttc ccgatctcct tgcgcgctat cctcatcttc ccgtctacgg accggcagag 240
acacagcata agggtagcac gcaagttgtc gaagaaggcg aaagtatcct catcctcggg 300
tgggagtttt ccgtattttg tacgccaagg cacacttccg gtcactctgt tttgtacagc 360
aaacctttat ttgtttgtgg cgacacgctg ttttctggcg gctgtggaag gctgttttga 420
ggcagccgag aacagatgta tcaatcttta caaaaatta atgcgcttcc agcgacacc 480
gtaatttgtt gcgcacatga gtatacatta gggaaataga agtttgctgc aagcgtgctg 540
cctgaggatc gggcgattca ggattattac ctgaaagtga aggagttacg tgcaaaaaac 600
ctaaaaacac tgcccgtaat gtcttcacta caacgtgcc ggtcacatta g 651

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<210> 4654

<211> 420

<212> DNA

<213> Enterobacter cloacae

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<400> 4654
gattcatgca ttacctctta tagcgtggcg ggtgttttga tgaaccggcg aaggatacct 60
cagactgtcg caccaccgga acgttgggca gagttgccct ggggtgaata ttatcgcgag 120
gccttagaac ttacagcttaa accctggctc gcgaaaaatga atgggttttca cctgcttaag 180
attggcaatc ttgagcgaca aatcaatacc gaaagctggc ctatctcgca taaggtttagc 240
gtatcgctta atggtcccc gggtcagggt aagcgggac ccatgcattt gccgttttgc 300
gaaaaatcca ttgatgcctg tctgcgcgcc catacgctgc cctggtgcag agcatcccat 360
cgtctgctgc ggaagccgca ccgccctttg attgtagtgt tcgaccagcc ggtagattgg 420

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<210> 4655

<211> 849

<212> DNA

<213> Enterobacter cloacae

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<400> 4655
tcacaggctt ttgtacgaaa ttatggctat gagcttgcac atcgggtaat ctgcgcgctt 60
cgcgacagcg ttgttgagaa aagcatgaac gacgaaatga aaaacaaaag cgccaaggctc 120
aaagtgatgt atgtccgcag tgatgatgac tctgataaac gcacccaaaa tccgcgtacc 180
ggaaaagggt ggcggcgctc ggctctttct cgtgcagacg gtggcggctg cccgcgccgc 240
gatgacagaa ataacccgcg cgatgaccgc aaacgtgatg accgtaagcg tgacgatcgc 300
aaacgcgatg attttgtccg cgacggtgga tcgccatggc gtaccgtttc tcgcgcgcc 360
ggtgaagaga cgaccgaaaa agccgatcac ggcggtatca gcggaaaaaa gtttatcgat 420
ccggaagtgc tgcgtcgta cggtcgggaa gagacccgtg tctacggtga gaaacgctgt 480
caggccctgt tccagagccg cccggaggtg atcggttcgt catggtttat ccagagcggt 540
accgccgctt ttaaagaagc gctgcgctg atggcgcgca accgcaaaag ctaccacgtg 600
gttgacgatg ccgagctgac aaaagcgtcc ggtacagaa accacggcgg cgtctgctc 660
ctgatcaaaa aacgtaacgg cactaccgtg cagcagtggt ttacccagcg ggtatccgat 720
gaactgcgtgac tggcgctgga agatgtgggt aaccgcgata acctggcgcg tatgatcggt 780
agctgcgcgc actttggcgt gaaaggcggt ctgttgcaag atgcgcgcgt gctggaatcc 840
ggtgcggcg

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<210> 4656

<211> 429

<212> DNA

<213> Enterobacter cloacae

```

<400> 4656
atgaaaaact ttacagctaa accagaaaac gtacagcgcg actcggtatgt tgttgacgcg 60
accggtaaaa ctctggcgcg tctggctact gaactggctc gtgcgctgct cggtaaagcat 120
aaagcggaat acactccgca cgttgatacc ggtgattaca tcatcgtttc gaacgctgac 180
aaagtgtgct ttaccggcaa caagcgtact gacaaaaatg actaccacca caccggccac 240

```

atcgggtggtg	tcaaaagaagc	gaccttttgaa	gaaatgatgtg	cccgccgttcc	tgagcgtgtg	300
attgaaatcg	cgggttaaagc	catgctgcca	aaaggcccgcc	tgggtctgtgc	tatgttccgt	360
aaactgaaag	tttacgcagg	caacgagcac	aaccacgcgg	cacagcaacc	gcaagtctct	420
gacatctaa						429

<210> 4657

<211> 396

<212> DNA

<213> Enterobacter cloacae

<400> 4657

gcaatggctg	aaaatcaata	ctacggcact	ggcgcccgca	aaagttccgc	agctcgcgtt	60
ttcatcaaac	cgggcagttg	taaaatcgta	atcaaccagc	gttctctgga	acagttacttc	120
ggtcgcgaaa	ctgcccgcat	ggtagtctgc	cagccgctgg	aactggttga	tatggtagaa	180
aaactggatc	tgtacatcac	cgttaaagg	ggtggtatct	ccggtcaggc	aggtgcgcat	240
cgctacggta	tcaccgcgc	tcgtatggag	tacgacgaat	ccctgcgttc	tgaactcgct	300
aaagctggct	tcgtttactg	tgacgcgcgt	caggtttgaac	gtaagaaagt	gggtctcgct	360
aaagcaagtc	tcgtccaca	gttctccaaa	cggttaa			396

<210> 4658

<211> 609

<212> DNA

<213> Enterobacter cloacae

<400> 4658

acatcgggtc	ggcagttg	ccagatgcc	gcgtggcgt	ccattaaatc	gacggttctg	60
gttatcgccg	tcacatcagag	tattggtgcc	ggtatcgccg	tggccatccc	gctgaccgca	120
gcgggtcagg	tgctgacctat	tattgtccgt	actattaccg	tggccttcca	gcagccggcg	180
gataaggcgg	ccgaaaaacgc	caacctcacc	gcgtctccct	ggatccacgt	ttcttccctg	240
ttctctcgaa	cgatgcgcat	cgcgatccct	gcagttatcg	tggcgatttc	tgtcggtaac	300
agcgaagttc	agggcatgct	gaatgcgac	ccgaaagtgg	tcaccagcgg	tctgaatatc	360
gccgggggta	tggctctgtg	ggtcggttat	gcgatgtgca	tcacatgat	gcgcgggggc	420
tacctgatgc	cattcttctta	ccctcggttc	gttaccgctg	cgttcaacaa	cttcaacctg	480
gttgcgttgg	gtgtgattgg	tcgggtgatg	gcgattctct	atatccagct	cagcccgaaa	540
tacaacctgg	tcgcgggtgc	ccctgcgcag	gctgctggta	acaacgatct	cgataacgaa	600
ctggaactaa						609

<210> 4659

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 4659

caggtgagcg	aaatggttga	tatgacaaaa	actaccactg	agaaaaaact	cactccgggt	60
gatatctgtg	gcgtgttcat	ccgttctaac	ctgtttcagg	gttcatggaa	cttcgaacgt	120
atgcaggcgc	tcggttctct	cttctccatg	gtgccgcgca	tcaaaacgct	gtatccggaa	180
aacaacgaag	cagcccgctca	ggcaattaa	cgctcatctg	aattcttcca	cacccatcct	240
tatgttgcgg	cgccggttct	ggcggtgacg	ctggcgatgg	aagagcatcg	tgcgaacggg	300
gctgaaatcg	acgatggtgc	cataaacggt	atcaaaagtg	gtctgatgtg	gcgctggcca	360
ggcggtggcg	accgatcttt	ctggggtacc	gtgcgtccgg	tctttgcggc	gctgggcgcg	420
gggatcgcca	tgagcggcag	cctgctcggt	ccctgctgtg	tcttcatcct	gtaa	474

<210> 4660

<211> 414

<212> DNA

<213> Enterobacter cloacae

<400> 4660

agcgtaggcg	tgccgggtcg	ctcgggctgt	atcgcgatga	acgcgccggc	tatcaaaagc	60
ttgtttgagc	aagtgcgcgt	cgccacgcgg	gtgcagatta	tcaatgagcc	ggtgaagttc	120
tcctctgagc	cggacggcaa	acgtttatct	gaagtgcaca	ggccgctggc	gcaggcagag	180

ggcgaaaaac	cacagacggt	gcggttcacg	cactcggcgg	cgtttacccg	ttttgcagcg	240
gagtcaggta	gcgataaaaac	gcttatcgat	aaagccctgg	cgccgagcgg	cgggatcccg	300
gttgccggtt	caacaggcaa	tggttcgtca	gccagcaaat	ctgtcctgtc	ggttcagaat	360
agtcgtgtct	cagcggcggt	ggcggaagac	gaggagagag	aagcgcttca	gtag	414

<210> 4661

<211> 648

<212> DNA

<213> Enterobacter cloacae

<400> 4661

cttctcgctt	tgactgctat	ccggtacact	ccactgtgtt	atttcatcaa	tactgaagga	60
ttatcctgca	tgtaccaaga	tcttattcgt	aacgaactga	acgaagcggc	ggaaacgctg	120
gcgaactttc	tgaagaatga	tgccaatatt	cacgctatcc	agcgcgcggc	ggctcctgct	180
gccgacagct	tcaaaagcgg	cggtaaagt	ctctcctgcg	gtaaacggcg	ttccactgtt	240
gacgcagctc	acttcgcccga	ggagctgacc	ggacgctatc	gcgaaaaacg	ttccgggtac	300
ccggcgatgc	cgatttcgca	cgtgagccac	atctcctgtg	taggcaacga	ctttgggtac	360
gaccacatct	tttcccgcta	cgttgaagcc	gtaggccgtg	aaggcgatgt	gcttctcggt	420
atctccagct	ccggttaactc	cgctaacgtg	atcaaaagca	tcgccgcgcg	gcgtgagaag	480
ggcatgaag	tgcataccct	gaccgggaaa	gatggcggtg	agatggacgg	tacagcggac	540
attgaaatcc	gcgttccaca	cttcggttat	gccgatcgcg	ttcaggaaat	tcacatcaaa	600
gtgatccaca	tcttgatcca	attgatcgaa	aaagagatgg	ttaagtaa		648

<210> 4662

<211> 870

<212> DNA

<213> Enterobacter cloacae

<400> 4662

cgccgcttct	ccgctatccc	gctgggtgac	tattcttatg	ggctgggtgt	tggttatctg	60
ggcagacact	ggatagccat	ttttttgcaa	caggggcggc	ttgcagcgcc	gggtctccatt	120
ttctggcgct	tcgcccgtgg	cagcgccacg	atgatgatcg	tcctgggtgc	cccttcggct	180
ctgcgcagcg	tgccgcgtcg	ggatcatctc	tactgcagtc	ttcaggggct	ctgctgtttc	240
tggtttcaact	tctgggtgct	ttacaccgcc	gccgcccata	tcaataccgg	cccttgagtcg	300
gtgattttct	cgatggcgct	gctgtataac	gccatcaaca	gctttatctt	cttcggccag	360
cgctccaccg	cacgcttctg	gacggcgcca	gcgctggggc	ttatcgggat	cattaccctg	420
ttctggaagc	atctgctcgc	cagcggtctg	agcgcgctgt	tgcttacggg	catcgggctt	480
tcgcgcctcg	gcacatacgg	cttctcgctg	gggaatatga	tcagcatgcg	tcatacgcga	540
aacgggatgg	aaaccatgac	caccaacgcc	tgggcgatgc	tgatggccac	cgctcgatgc	600
ggacttatcg	ccctcttccg	agggcataac	tttatgccgg	aatggacggt	gagctatatg	660
ggggcgatgc	tctatcttgc	gctgtttggc	tcgggtgatt	cccttcggcg	ctcatttaacg	720
ctgtgtagggc	gcattggctc	cggtaaaagg	gcctacagca	ccctgctgtt	ccacgctggt	780
ggcgctgtag	attttcaagg	tggttacaag	ttaccttttg	gcactcctac	cggattttcc	840
ggctgttttt	tgataattgg	ggggcatttt				870

<210> 4663

<211> 270

<212> DNA

<213> Enterobacter cloacae

<400> 4663

aagaaaaata	caatgttcca	gcaagaagtt	accattaccg	ctccgaaagg	tctgcacacc	60
cgccctgctg	ctcagtttgt	taaaagaagc	aaaggcttca	cttctgaaat	cactgtgact	120
tccaaaggca	aaagcgctag	cgcaaaaagc	ctgttcaagc	tgcaaaactc	gggctgact	180
cagggtaccg	ttgttaccat	ctccgctgaa	ggtgaagacg	agcagaaaag	agttgagcat	240
ctggtttaagc	tgatggctga	actcgagtaa				270

<210> 4664

<211> 845

<212> DNA

<213> Enterobacter cloacae

```

<400> 4664
ggtaggggta tgatttcagg catttttagca tccccgggta tcgctttcgg caaagcattg 60
ctgctgaaag aagacgaaat cgtcattgac cggaaaaaaa ttctcgccga caaggttgat 120
caggaaagtt aacggtttct gagcggctgt gccaaaggcat ctgcgcaact ggaagcgatt 180
aaaactaaa cttggcgaac ttccgggtgaa gaaaaaagaag ccatcttcga agggccacatt 240
atgctgctcg aacatgagga gctggagcag gaaatcatag ccttgattaa agataaaggc 300
atgacggcgc acgcggtcgc gcattgaagt atcgaaggtc aggcattctgc cctggaagag 360
ctggacgagt aataacctgaa agagcgtgog gctgacgtac gtgacatcgg taagcgccgt 420
ctgcgcacaa tctctgggtct ggcacatcac gatctgagcg cgattcagga cgaagtgatc 480
ctggttgcgc ctgacctgac cccgtctgaa accgcacacg tgaacctgaa caaggtgctg 540
ggtttcatta ctgatgcagg tggacgtact tcccacacct ctatcatggc gcgtttctctg 600
gagctgccag ccattgtggg ttacggtagc gtgacgtctc aggttaaaaa caaccactat 660
ctgattctgg atgcgtaaaa aaatgtggtt taactcaacc ccaactaacg tgtgatcgac 720
cactgcgccc ccgttcagga gcaggttggt accgaaaaaa acgaactcgc taaaactgaa 780
aaatttgcca accatccgcg ttggaatggc ttccaggtta aattgtgcgc taacatccgg 840
tacgg

```

```

<210> 4665
<211> 357
<212> DNA
<213> Enterobacter cloacae

```

```

<400> 4665
aatcataacc ctaccttact tgtgactgat attgaaaaga acccggtaaa cttactcgag 60
ttcagccatc agottaacca gatgctcaac tgcctttctgc tgcgtcttcac cttcagcgga 120
gatgtaacca accgtacctt gagtcaggcc cagagtttgc agcttgaaca ggctttttgc 180
gctagcgctt ttgcggttgg aagtcacagt gatttcagaa gtgaagcctt tcgcttcttt 240
aacaactcga gcagcagggc ggggtgtcag accgttcgga gcggtaatgg taacttcttg 300
ctggaacatt gtatttttct tctaccagcc ggctggagg atctatgctc tcgagac 357

```

```

<210> 4666
<211> 192
<212> DNA
<213> Enterobacter cloacae

```

```

<400> 4666
cttagcgccg atgcgcgcag ccccggtggt aagattccag agattaacca aatcactatt 60
gctaaattct tcagcggctga agggttatca ctgatgggtg ctgcactgat ttatgaaatg 120
gtactgaaag cacacgatgc aatgacagat ttaattctgga atgaatacga ggtgaaaaat 180
atgaatggct aa
192

```

```

<210> 4667
<211> 231
<212> DNA
<213> Enterobacter cloacae

```

```

<400> 4667
gatgaacata tgcgcgcgcat tgcaactcgt agtgaagacc tgggacaccc cgagaacaaa 60
agtgaattag cgtggaatga aaacaaaaaa tggaaagaaa atcaagaatc tcttttatta 120
aatggtgttg aaatacctat tgtcagctta gattatgaaa ttgaaataaa ccaagaat 180
ggcaattata atgcatttaa agatacttgc tatctggaaa attatagata g 231

```

```

<210> 4668
<211> 426
<212> DNA
<213> Enterobacter cloacae

```

```

<400> 4668
gggggaaccc taacgggggt tctctttgaa caaatcgagg agcggaaaaat gtcatatctt 60
gaatatatca atgaagtaaa agtgcgcggg atagttatca gtgctgtgga gaaaaaat 120

```

```

actgaccaga gtatagggtt gtaataaaag ctcaaaaaata ggatgaagac agaagttgat 180
ggtgaaatca ctgagagaga attttcagtt caaatcaaagg tgtcgccctga aatgtattca 240
acctgtttca ctgggtataaa tcagggtgat gagttgatgg tctccggtta tattgtttgtc 300
gatactatta tgattgaagg gagagaacat cctcttgact acatgagaggt ggtagcaaca 360
agtaagttgg ctccacatacc taaacctcta aaagggtttg gacaaaagtag ctttaaatcag 420
atctga 426

```

<210> 4669

<211> 198

<212> DNA

<213> *Enterobacter cloacae*

<400> 4669

```

atcaactatt tgcgttattt catcttcacg tatatcgaaat atagaaaaaa aactaagttg 60
attactactt attgcagtag ccttaaattt ttgtttcatg gggactccaa aaggagaaat 120
cccataagg gattttctcc ctttaggggt gggttaaatgt cagatctgat taaagctact 180
ttgtccaaaa ccttttag 198

```

<210> 4670

<211> 369

<212> DNA

<213> *Enterobacter cloacae*

<400> 4670

```

tcctctgcgg cgcttgaaga acaaatcatg ttggacgatt gcaatgacga tatgggctgg 60
gacatctctt ttgatcagga ttatttaaat tcagaaaaaa aactggctgt taaatggact 120
gacagggaaa ttatggatgt ttacataaaa gcttttaaat ccacattaga gtgttttgac 180
gagctgtgtt catgtgatct gtaactaaa cgaaacgctt ttggcgaagt agaaataaat 240
coaataatgc aaaaatcatt tgaatggatc atgtctgaag cttttgaaat agtgggaaat 300
catcttggtt ataattgtcc tcaaatcagg aaactgatgg caactatttg ccaaatgaat 360
ctcaaaaaa 369

```

<210> 4671

<211> 258

<212> DNA

<213> *Enterobacter cloacae*

<400> 4671

```

cgcttcttat caatggtggc agaaacgggc tggataaacg ccgcgcgctg ttaaacctgg 60
cgaaaatcagt tctggttgga ggtgaatgtg ggtatcgaaa cgataatcgg gctggccgca 120
ctggtcattt ccgcattggc aggcgctttt ggccgtggcc atatccggcg caccagcaaa 180
gcacaggcta aagccgacca acagcgccact gaagataacg cagctgcaac ggtgcgacga 240
gcggaaacgc gggtag 258

```

<210> 4672

<211> 411

<212> DNA

<213> *Enterobacter cloacae*

<400> 4672

```

gttaattcaa aaggggaaag ttttgacgta aaactggaag catatgcttt aagtgaatat 60
gacggaaaaa atgggatccg aggcacgctt atcagccgaa atggtcacgc aatgacagga 120
gctgcatttg ccgggtggact ttcttcacgt gccggtagct taagtcccg taaggatctt 180
tcattttaca tcgaccctta ttcaaggct cagtatcagt cccctaattt tgggtcactt 240
ggggcattag ccggggttgg tcgagctcaa ggtggtctta atcgactcgt cgattactac 300
accgcaatfg cagaacaaca gtggccaatc gtagaatta gccctggccg agctattaca 360
tttgtcgttc agaccggaac tacaattcca acgaatctga ccagtcgctg a 411

```

<210> 4673

<211> 483

<212> DNA

<213> Enterobacter cloacae

<400> 4673

atgtagtagtt	tagaaaaaaa	agaatcgctt	gaatcagctg	gacctgaat	cactaaaaaa	60
atggtgcgag	aaggacacac	aaaaaaaatt	acctcgaaa	ttgatattga	aaaaatattg	120
aagtatttat	ttttcttcgc	ctttgcgcta	ttggtcatta	tttatgggta	taaaaggcttt	180
atgaatgttt	acgattactt	caataaacaa	tcccagcctt	cgtacaagat	tgcagtgttt	240
gacatgcctg	aattacgtaa	ggaatttttc	aagcatcacg	gaggccgtac	tgctgacaat	300
gatagatctc	aattcgaaga	atatttcaga	acattaatga	agatctaccg	tgaccgtggc	360
tatttaatta	ttgatgcaac	gcttgcgctt	actgtaccgg	atagtgttga	aatcgctcact	420
tatatggaac	ttgaagatag	ctctgaagcg	gtacaatcaa	gttcttataa	tgcaagaaga	480
tag						483

<210> 4674

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 4674

acctttacaa	acttttttcg	gaaggatttt	cttttctggc	agatccttca	tggacattac	60
tctgcgctgt	gcaacttgat	ccaatcagtt	acaaagccag	aagaagagat	agtaattttc	120
tctactggaa	atttgtttga	ctatgggccc	gaaccctatg	aattgatgaa	ggcgataaac	180
agtggctttt	tcgattggac	ttttgtgagg	cattttctcg	ctgcgcggagc	cggaagaaga	240
atgttaaaaa	aattgtttacc	attaaacaaa	gaccggagaa	cattttaccc	cagcacatac	300
ctcaatgaga	gatgtgtgtg	aatgggcgga	aagtggcata	aagctgtgaa	tcgttactat	360
tttagaggag	aggtaaaaaa	acttcttaat	accacagctg	gtacgatgat	gcgattttta	420
ctaaaaggcg	atataaaaa	tgggggttgc	ccttctgatt	acgcccctat	cgcacatca	480
ttactgtata	cttataatgc	gcttcaagca	ttcaactatg	ccaatgtgaa	tatttttccg	540
agccagtttc	tattcgggat	ggaccatgcc	gtaataccaa	tgatgataaa	tgacgtcaac	600
cttatgtgtc	taggtaggaa	tcctgttaac	agcattcgaa	aagcccatgg	tcgtactcaa	660
acaaatcttc	cagttactgat	cggttaattg	ttgcataata	atactggatc	actctatatg	720
tcaaaattag	aagaccagtg	aatagtgtct	ccgggtatac	cgcaaaactga	ctcaccagca	780
cttacattag	tagaaaaata	catgaagaac	aatccagttt	tatttgttca	tcagctaata	840
caaaacacaa	acaagtttta	ttcaacttaa	acctatcctt	tagaactcga	ttcgattgaa	900
aacaacattg	aggttaacaag	atga				924

<210> 4675

<211> 348

<212> DNA

<213> Enterobacter cloacae

<400> 4675

acaagagtag	ggaacccact	catggatatt	cgtaagatta	aaaaactgat	cgagctgggt	60
gaagaatcag	gcattctcga	actggaattt	ttggaaggcg	aagagtctgt	acgcacacgc	120
cggtcagccc	cagccgctag	cttcccggtg	atgcagcaag	cttatgctgc	gccagtgcag	180
cagcctgcgc	tctccgcagc	cggttcgcga	gcgcgacgag	aagcggcaac	tcgggtgcga	240
acagaaaatc	atggtcacat	cgtaagttcc	ccagtgttgg	tactttctac	cgcaccccgga	300
agccggagcg	gaaaggcttc	aactaaatgt	gtcaaaaagt	caacgttaa		348

<210> 4676

<211> 183

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (128)

<220>

<221> unsure

<222> (155)

<220>
 <221>unsure
 <222>(171)

<220>
 <221>unsure
 <222>(174)

<220>
 <221>unsure
 <222>(176)

<400> 4676
 ggaggaggaa agggggaggg agaggtaggg gggacgagag aagagaggag gaagagggga 60
 ttggggaagg gaagagcgat ggaggcggt gaggggggaa gagaagggaa ggtggagggg 120
 ggggcggnag tggggggggg ggttgggggg gggnggggtg gggggggggg ngngngaggg 180
 tga 183

<210> 4677
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 4677
 aaaagaagga agcgaaaaaa gaaaaaggat ctacgcgcga aaggccaggc ggaagcatca 60
 aagagaacag ctaaggcaac cagcaaccgg ctacgaaag aaaacagcgg gaataaagaa 120
 accttcacca aagcgccgga acgcgaagag gccttggggc agaaaaacgt cgagatccag 180
 cttcagcagg gtcctggaaga aaaggagaaa gccagcgctg tctggccgac caaagaatag 240

<210> 4678
 <211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 4678
 acggcacttg cgtcttcccc agatttacgt ataatgcgag ggcttgcgt aattgacggc 60
 gggttcaatc tgaaccagag tagctcactt tgttactcaa caatgtctcc aattggggag 120
 ctacgttaaga acggttacac tctcccatca atcgtaatgg gtttgaggag taatcatttt 180
 cgtttataa 189

<210> 4679
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

<400> 4679
 atacttaccg gggtcaccga atccgtagg actggcagtg ggtagtctt gtctacgttg 60
 ataaaagcct tcttcattgc cctgtttccc ctgtcctga aaaagtacc gaccggtccg 120
 gatggagggg tcggtcagaa aatcatgcct gtcccttatt catcttctca gcatgcttac 180
 gcaggtagtc ttccaggta ccatgagcat tga 213

<210> 4680
 <211> 339
 <212> DNA
 <213> Enterobacter cloacae

<400> 4680
 ccgacccttc catccgagc ggtaggtaac ttttccagga caaggggaaa cagggcaatg 60
 aagaaggctt ttatcaacgt agacaagact aaccactgc cagtcctgac ggattcgggtg 120
 acccggttaa gtattcagtg caccgcaaaa gatgaaaacg gggcagggat cgaagtgaac 180

```

atctctgacc tgattcagga tcatgatacg gatgaagtga aagtgcagtt tggggagctcg 240
ccgtgttcagg ctctggcgat gctccgccgg gttatgacag cactggaaaa gcaggcaaat 300
gcagaactgc aacagaattc ctgctcgctg atgcagtaa 339

```

```

<210> 4681
<211> 345
<212> DNA
<213> Enterobacter cloacae

```

```

<400> 4681
aatggtgaaa agccaaaaag gagaacgctg gtttacgccg ccggttaacag gaaccggttc 60
cggtctccaaa ggaaacagggt tcataaacag aaccgccgag gttaaagcacc atccatgtcc 120
agcgttcttga acaaaaagac cgtgaccgtc attgccgaca ccgcgatccc gattttttgaa 180
cgtattgtctg aagaagccaa gcttaaagaa ggtgaatctg tcagcactga tacttacacg 240
cttgttcttga ccaatgatga aatgaacgat atcatcaatg ctcatgctga cctgaaagag 300
tacctgcgta agcatgctga gaagatgaat aagggacagc catga 345

```

```

<210> 4682
<211> 339
<212> DNA
<213> Enterobacter cloacae

```

```

<400> 4682
acttacggag aggatatggt aattacttat tcattatcgg aaacgtttta tatgttttta 60
cgcgagatta ttgcactctg acttgacgtt ttttgcgat ggtgcgtttt gtgtcttttc 120
tctgatcagg aacgaggtta agaggttcct gtttctatga aaaaaataac ttcaaatgta 180
gctttctcct actttatcag ttctcaaat ggcgctttta ttatctcctt gttgggttca 240
atcttaagca cgaaatggga caacatcgctc tggaaatgat aaataagaca gtcggacctg 300
catgtcttca caacgaccag ccagatccga tctaacgoc 339

```

```

<210> 4683
<211> 192
<212> DNA
<213> Enterobacter cloacae

```

```

<400> 4683
tccccaaacg tatgtcttct catccggctg gtgaagtatg gttcatcatt gattaaaatt 60
tgctccctca ttgtgttttt tgccgggtcg ccccggtttt ttttcgtttc gtctccctgaa 120
agttcaaaaa atttcagcat cttcttagaa aatcgtgaa aagatggcgt tttattgttc 180
gaacaatcct aa 192

```

```

<210> 4684
<211> 492
<212> DNA
<213> Enterobacter cloacae

```

```

<220>
<221> unsure
<222> {30}

```

```

<400> 4684
atgcactcat taatgaccgt ggcaattaan atacagaatc agcaaggatt ttttgattta 60
tttaaatcac aggaacgtta aagtaaaaga gtgatataca ttctgttttg gatgtgtctg 120
gagaattctg tatgggtaga acattacgaa tctcaaatca gcataaccca ggatgaccga 180
tatagtcttg ttcaactcaa ccagatccag gaacctaaact ggtcttttat ttctaaagaa 240
aaactttgaag agacatatcc tgaatttgat ttctatgttt ccagaaagtc tcttgaaaac 300
tgaggatagt cccgattatc aactcagacg attaaaaaat tattaaaaa aaaaaactgg 360
acctgaagg aagttgtctg tcgctggaa cgttcggaat catggatgag taaagttgtt 420
aatgatgagg aaagggaact ctactgggaa gacgttttta aagggtctcc ttcaaaaata 480
cacgaaaaat ga 492

```

<210> 4685
 <211> 294
 <212> DNA
 <213> Enterobacter cloacae

<400> 4685
 ggcagcataa tgtctaaaga acttgttcga cctataatgg aaaaacctga acgggccaga 60
 aaagaaagta gcctgactaa cattgcggct aaaaagaaaa atacgacagc cgaacaccca 120
 aaaactatac gcctgacacc tgcggaaaaag atgctggcgc aggaactggc tgagcagatc 180
 caggcactta cgcacaagaa cattacgggt tccacattac ttcgtgcagg gctgtacctt 240
 gctcagtcag caggaccaga aaaagtctg aaggcgatta aagagaacat ttag 294

<210> 4686
 <211> 291
 <212> DNA
 <213> Enterobacter cloacae

<400> 4686
 aaaaatgata aacagcttta ccacattcgc tggaaagcttc atcacactct ggctgagcta 60
 aattactcac ttgaatggtt ttggcgattac ctggccaaac aaaaagatta tctttacgat 120
 attgacgggt ttgaggcgct ctatttatat ttacaacgta aatattcatg gcctctggat 180
 aaatccagag gaatgagcct ttcagatata agacttgcct tttcagtaga gatgaaaggt 240
 tggacattgc ctgcgatgc gatttttgaa gaatttctct gtgtgtattg a 291

<210> 4687
 <211> 189
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (81)

<400> 4687
 agcacaaaac actgggaaaa agaatacctc ccccccccca agggactcga atttatggaa 60
 attccaaccg acccctcca ntgcgttcg ctggctggg gcggcggaat taaggaggag 120
 ccttccccg gaggggaatc ccgcacaaat taccgccccc agggggggcc caccctcccc 180
 tgggtgggt 189

<210> 4688
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 4688
 ctacagaagg ttacttttat catgccatct ttgttaggca tatctaaca aaaaagcttg 60
 cctaatctgt tagacatatc taatctacat ctcatcgaca atcacatgca cagtgtattc 120
 tcagtagatg tacggttcgg cggcccgccc ttaagggaac aaaaaagcgc cccatcgga 180
 cgcttcgctc tttaa 195

<210> 4689
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

<400> 4689
 aaatctggat atccccctt tccacaggca ggagatgact atatgcagga taatgaattg 60
 gccaaagtta gagatttcgt gttaacagta aaactcatgg ctgagaatag tttgaaagaa 120
 atctcattac tcaatacaca ccaggaaatt ctccaaaaat cgcacgcgca ggcaatgtcc 180
 aacctttcat ctctactgaa agagcaagtc tga 213

<210> 4690
 <211> 432
 <212> DNA
 <213> Enterobacter cloacae

<400> 4690
 aagggggcgc gaccgcggtat gaggtcggata atcgcgcgta ctgggatgat cagatccagc 60
 tcaatatgta cgcacgcgctt tatcaggcgcg gcgcgcgctc ggccgcgcgctc cgtcaggccgc 120
 agggcgccaag ggcaatggca tcgctcgagg tcgatcaggc ccgttttgat gtcctgcaaa 180
 aaatcctccg tcgcacaggc cgaactggacc gggcgcgctg gactaatgga agccgggaaa 240
 cgtcagctcg aaaaatgcgtt gcgcgcgcgc gatgtctaca aaaaatgaata taccctgagc 300
 aagcgcagca ttaacgatct gctcagcgctg gaggcaggatg tctggctctgc cactccgcgc 360
 aaaataatgg ctgaatacga tggctggagt gcggcgatta attacgcctc tgcgggtggat 420
 aatctcatgc cg 432

<210> 4691
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 4691
 ctcaccgagg ggtcgcgcat gagagcgaaa agaatacttt ctttcatcgt cattgcgcga 60
 acgggagata tccccgcctg gcgcttattt gcattagccg cagtcaccac caacgaaatt 120
 aaggtcaggg aggcagataa tctgagtaac ctgtttatgc atttcatctt cataatatcc 180
 cccgactcca ggtga 195

<210> 4692
 <211> 297
 <212> DNA
 <213> Enterobacter cloacae

<400> 4692
 attcgtctcg ctgtcgcaca tctgaggaaac gatatagggt tcaactgctc tggcccagtt 60
 ttcacgaaca gatggatgat tcaatttcagc ttatctatc tggctcgttc tagatatattc 120
 atgtttgtaa ttaggttcca aaacgttaac ttgtgatag tcaaaagcat tctctcatt 180
 aatattgcgc tctcctacaa atttatcaat aagagttgga tcgttcatta ttactgtctg 240
 aacgggaaaa gcgttactgc catcttcgat actaatgggt gcgtccggaa cgattaa 297

<210> 4693
 <211> 393
 <212> DNA
 <213> Enterobacter cloacae

<400> 4693
 gcttttaata acaggtcaga atataataca aaaaggagtg tattaatcgt tccggacgca 60
 cccattagta tcgaagatgg cagtaaacgtt ttcccgcttc agacagtaat aatgaacgat 120
 ccaactctta ttgataaatt ttaggagagag ggcaatatta atgaggagaa tgcctttgac 180
 tatcacaaaa gtaacgtttt ggaacctaat tacaacatg aaatatctag aacgagccag 240
 atagataaag ctgaaatgaa tcaatccatct gttcgtgaaa actggggcag agcaggtgaa 300
 cccatatcgc ttctccagat gtctgacagc gaacgaaatc taaaaattaa acgattccag 360
 aaacctacaa gtggagctaa tcatggacat taa 393

<210> 4694
 <211> 696
 <212> DNA
 <213> Enterobacter cloacae

<400> 4694
 aaattaaacg attccagaaa cctacaagtg gagctaataca tggacattaa aaaggcctgg 60
 gaaaataaga ccgtcagact ttctgtattt gcgcgctctgc tggtagtgat tgtttatatt 120
 attagccagt ctattttttt cacaccagtt aagaaagaaa agaaaacaca gaaaaaagac 180

```

atgcagacca atttgttgtt agatgattcg caaatgaaca aattgagtaa tgaagaaagc 240
cagaaagtat ataaagaaat ggtaagcaa aaccgacttg accaaaatgc ggcgaaagag 300
gaccgcgaaa aagcagaaaa agcccaacag gaaactaaag cccaagtgc aagttaaact 360
tctcaacttc agcagctgtc tcagcaaat aatgatatgc agacaaatcg aaacggcaat 420
cgtaacttgg atgctggtag ttgcgtaaa acgattaatg agcaggcacc ggcagctcct 480
tatcagctta atgctaattg gccgattaat ggcgttaaacc ctaattacgc ttctatcaca 540
cctacgcgta atagcccaat gagaacaatc acacaaagtt ccattaagac taatggtacc 600
gatgggtgca ttcagggttat gcccggtgtc gaaaacagaa tcaaggaagc cagagaggtc 660
attgcaggtc ttcaccaagg gccggaagat acgcat 696

```

<210> 4695

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 4695

```

tgcccgaaag cgtaaagag gatagagaat ccttcagaa gagcgtttga gttgcagcgc 60
agatccctcc tgaatgccc ctctgcccct acaatctgtc aacagaatgt gaaaacgtca 120
atacaggtgg cggggattta cgtggagtgt gaaaaaccgc aaacaaagat taaaaaaacc 180
ctgaccgtga gttttcaga gaaaaattta tgctactcgc catga 225

```

<210> 4696

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 4696

```

cactttttcg cgagaaactg gaaaaagtgt caaccocacc taacggatcc tgacgcctac 60
gaaaggcagc tacagcagaa gggtaaaagg ctggcggtga gatattgtga gccttggctg 120
ctagcttttg ttaactcctg tcggaagcag ggcaggtgtc agcctgttat ggtttgttat 180
gccttactag ggaaaaccag ggggaaggtg tccaccgcta ccgcttcaga aaacttcagg 240
tacacgaact cgtga 255

```

<210> 4697

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 4697

```

aggggaggtg ttaagcacac cccctttgca accatcctca agcctctttc agatcgatg- 60
tccagtttac ccggaagctg gcgttcagat ttagtgtgca aaactttatc ccacccggca 120
cagccagtg ggtatttttg ctgtaaccgc ttttaagttac agttttcttc ttctgtaagt 180
ggcatgataa ggggccaaaa tttagacaat tattcttaaca atcccatag 228

```

<210> 4698

<211> 270

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (149)

<220>

<221> unsure

<222> (198)

<220>

<221> unsure

<222> (215)

<220>
 <221>unsure
 <222>(217)

<220>
 <221>unsure
 <222>(264)

<220>
 <221>unsure
 <222>(267)

<400> 4698
 aggaatcaat tgcagctac cgcaacgttg cccttttct cctcaatccc agggggggaa 60
 gtgctcttta gctcagctca gggggcggca ctacgcccg cagtgaattc agcagatatt 120
 agcgagcaca gccgcgcacg ggaatgtctnt cctcggacgg tgggaaggatc tgcgggggacg 180
 attgataccg ggggtcaanaa tgaatatgga acatncngga ttatcgccct cttctgggtc 240
 agggcaatat ttctggggcaa acancantaa 270

<210> 4699
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 4699
 ggcggcgagg tataccacaa gctatggcaa aaaatgcagt ggtgttttt tatacttgtc 60
 gcgcgcgcat tattgtgcga cgcggattat gaaggctact tgtccaatat gttagcggca 120
 attaatgtt tatcccggt tgcgtcctcg ttaattgttg ttacaaaaaa tgcgcgcctc 180
 ttttctgtt ggggttaacaa ctgttttagt aactttttga atatcgatgc tagaaaaatg 240

<210> 4700
 <211> 246
 <212> DNA
 <213> Enterobacter cloacae

<400> 4700
 gcgtcagcag cgacttcagg cagtttactt cctgtgccag ttctcggtta ttctcggcag 60
 tggcaaatc aggtgtgctc atttattttc ctcatataa aacagcgcac gagcgcgacg 120
 atgaagattt aggcggcgga gtataccaca agctatggca aaaaatgcag tgggtgtttt 180
 ttatacttgt cgcgcgcga ttattgtcgc acgcggatta tgaaggctact ctgtccaata 240
 tgttag 246

<210> 4701
 <211> 318
 <212> DNA
 <213> Enterobacter cloacae

<400> 4701
 cagagtgaga ttgaaggat gcatagaact aaatttgaac gacttaagga tgaccattatc 60
 ggtgagccg tattatccat actgaaagag aacggaccta ttacctttgt gctcttctgt 120
 aatgcctgc gggcgatgac taacgttgaa tcaaatgatg aacgtaaaaa tgcattgatt 180
 gcgcgtgaag atgaagtgc ccagcgtgta accgcgtctc cgcacgacgc ggggaagagt 240
 atgggcaatt atgacatggg tcgcatgcga tctctcttta ctcaacaac gcttttgacc 300
 ccagacaaga aacactaa 318

<210> 4702
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 4702

cgcgacaagt	tttttaaaatt	tttttctgct	atcgacgcct	tccgcaacgc	attcccttcc	60
cgtcattgtc	ctgtatatct	gtatcgcttt	aataatgcta	tagtcattgt	cgtttagcaac	120
aaagtgtcta	actatatcgc	ggccaagctt	caatccatca	acattaatct	gtcggatggg	180
taa						183

<210> 4703

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 4703

attactggtt	catccactta	caatgaaatg	aattctagcac	accttaagaa	acaaattcat	60
tacaatcgtg	taattgtacat	agctgtatta	catttacgtc	atcttcccac	caggttgatt	120
atttttatat	atgatcataa	ggatatcttt	tatgtacctc	agaaggtaat	tacacatgaa	180
tatattaatc	acgaccactg	cgtttacagc	ttttatttgt	ggggcagctt	ttgctcagtc	240
cagtga						246

<210> 4704

<211> 555

<212> DNA

<213> Enterobacter cloacae

<400> 4704

acttctctct	tcatatttgt	aaggctctca	tttgattctt	gtcaaacatt	aatctggaag	60
actaaaaaat	catttctttt	aattcgtttt	acagaaatcc	tctctcgtta	tttcggatat	120
tatttgaata	attatcaaaa	acgggggtgca	gccatgcgta	agagttacac	atttggattt	180
ccatttggac	tccagagaga	atcaggactc	tttttagata	ttacagaggt	cagccggggg	240
atcgactgtt	actgcattct	ccccgcttgc	aaaactgac	tggttagcaa	gcagggggag	300
gtcaagcttt	ggcattttct	acacagtact	gctgtagccg	gtgactgtga	tggtctgatg	360
gaagccatcc	ggggaaaaat	tattgaagtc	atcaacagac	accaggttct	tggtttccca	420
aattcttctg	ctggcgacga	tggtggggcg	gtttcactga	atgaggttag	tggaaagcgg	480
agtatgttgc	gaggtacagc	tgatctgttc	gtaagcgtca	agccactgcc	gcctgttgcc	540
attactaacg	attga					555

<210> 4705

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4705

tgccaacac	atcagattgc	ggcaacgtac	gaaactgttc	cgcgacagat	tatggcacag	60
agccagattc	atcaatgtcc	tgcgaaaaatg	aaattgggct	actttccgag	attttccatc	120
tactggggga	ccagtcgaaga	ctacgaatcc	tgctttaactg	tatgcgtggt	tgggtctctg	180
tag						183

<210> 4706

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 4706

aattattttt	cagacttaag	ggggccttat	tatctccctt	ctgctaagggt	gagtcacaa	60
ttcacaattt	caacttatca	gaattttctg	ggattattat	tctgctatgt	gaaatgccat	120
atcctgaaga	acatggccta	catgctgac	cataatgcta	taaaagatgt	acttggcctt	180
tctctctctt	cgaacgagtc	ttgcaccccg	caacaacctc	agatgatgac	tgaccagaga	240
tttga						246

<210> 4707

<211> 309

<212> DNA

<213> Enterobacter cloacae

<400> 4707
 aaacagcttg cgccaggcaa tcgcgcagcg agaaaaggag agagagcagg agcagcgcca 60
 caaaaagaag accgacgcgg tcacggccgg ggggtgcaga aggggcaaaa acccgagag 120
 ggcaacaaca atcaacaaaa gcaggagatc cagaccgcgc aaaaacgaacc ggacaaacag 180
 agcaaaacca gaaccgcagg gcagggcaaa accgggcagg cgcagaaaaga aggagagaaa 240
 aaaggaaacg aggaggagca gccagaaaag acgcaatcca gccggataaa gatatttact 300
 tgcccataa 309

<210> 4708
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

<400> 4708
 ccggggaaaag gatggttttg gttaggcaag aggaatccgc atggggcgaa ggggaattat 60
 gacatggttg aaacggtaaa ggggtgaaa ggaacgatgg ggaatatggg atatttaggg 120
 gatgggtttg caacgattac ccgcggtgat gcatcactat ttttgggaaa gaacaaaacg 180
 ttggtgcgca tgatgcggaa aaggcgctag taa 213

<210> 4709
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 4709
 atcttgagtg tggagattca gtttcacaag ctgcttgatt ctttccctga ttttgatttt 60
 ttctcacata ctcttatggc acggtttccg tgcccttttt ttgcctcgct tacaagcgct 120
 tactcccttt ctacctatcc caccctacat caccacttaa aatctatett tctaattcca 180
 ttatcccttt cgtag 195

<210> 4710
 <211> 312
 <212> DNA
 <213> Enterobacter cloacae

<400> 4710
 agagatttgt atactgttct caaccaagga gagctcatga atgaactaaa atccaaaaac 60
 gagaacagta ccaaaagcaa ctttcccccg gttgataatc agttttgctt taccatgttt 120
 gatttcaqca tagaacgact actttcaacg gccgaggatc tccagcttga gtacatcttc 180
 cagaaacctg gaagtgaagt aagaaaggat ttggttgagc gattcgaacg tggagagcgc 240
 ttgtttacag cttcacactg tgacaatttc tgtgaaatcc ttggttgta aggccatcag 300
 gaaaatgcac aa 312

<210> 4711
 <211> 255
 <212> DNA
 <213> Enterobacter cloacae

<400> 4711
 cgtcatatcc ctgcgtgcgc gtcgcgcgac accagtcgac gggctttttt cggctcatcc 60
 atttccgggc agggagatttt atcagggcgt ggtgtgactg agcagcaact ggggcactgt 120
 cagcagcttg cagatttaac acccttaatc gccaaactgg gattctgttc tgatgttgac 180
 ctccgcttct gggcgggctt tggtttacta acacttactt ccataatacg aaatgtgctt 240
 gatgatgcag attaa 255

<210> 4712
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 4712
 tacagattaa cgtcatattc ctatatgccg gtctgccgac atcagtgctt gggctatttt 60
 cgggtcaaaa aagacctggc gagagattta atcaagcgtg gtgtgactga gcagcagctg 120
 ggggcactgt catccgcttg caaatttaac ccccttaac gcaaaacttg ggttcagtc 180
 tga 183

<210> 4713
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 4713
 gtaatgccaa tgtttaccgg tatccaaaaa gataatggat gggatcacct aaatgattta 60
 cgtgaaaaat ttaacggtaa ggtgtttaaa gttaacgaac agatcatctc acgctttcag 120
 attaaaaaca caccctcgat tataactact gaccaagata aattccggat caccctgttt 180
 agcgaggcag aagtcgctgg tatcgagacc ccaaatcttt cagaggaaaa ataa 234

<210> 4714
 <211> 417
 <212> DNA
 <213> Enterobacter cloacae

<400> 4714
 tttctaaggg taaaaataat gaaacttaga aaaacgatag cttcaactat tattgcatca 60
 atgattgccg ataactatgag ttgggctttt tatatctctc tcataaaat atgtaatgact 120
 cctggtattt atcgccgaga cgtctatattt gaccagctcg aaagtaactt taactctgct 180
 aatcctaacg caaatcgcaa tgcgacaacc agtctcagg acattgttga gaagtacaag 240
 aatcgcgatt caggcgagaa tgcagtgagg aagatcaccc agaaatacgt gggtaaaagg 300
 gaattccgcta atcttaatct oggaaagtat ggggcaggga actcaaatga aagtgtcatg 360
 aaaaatgccg catccgatgg aaagtccatt ggtagcgcgg tacaactgcc gagtatg 417

<210> 4715
 <211> 198
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221>unsure
 <222>(6)

<220>
 <221>unsure
 <222>(7)

<220>
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 <222>(8)

<220>
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 <222>(9)

<220>
 <221>unsure
 <222>(10)

<220>
 <221>unsure
 <222>(11)

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<221>unsure
<222>(12)

<220>
<221>unsure
<222>(13)

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<221>unsure
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<222>(32)

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<221>unsure

<222>(33)

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<221>unsure

<222>(34)

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<221>unsure

<222>(35)

<220>

<221>unsure

<222>(36)

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<221>unsure

<222>(37)

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<221>unsure

<222>(38)

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<221>unsure

<222>(39)

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<221>unsure

<222>(40)

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<222>(41)

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<220>
<221>unsure
<222>(62)

<220>
<221>unsure
<222>(63)

<220>
<221>unsure
<222>(165)

<400> 4715	
gtccggnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	60
nnntatccac cgggacaggc atcagcctct tacgcacctg agcctcatct cacagitttc	120
atgactgact atttcattcc gattcgccct ggtcccaacca tagtnagtat tgcgacacgc	180
cgtgaagagt ccattggg	198

<210> 4716
<211> 198
<212> DNA
<213> *Enterobacter cloacae*

<400> 4716	
agttatcatg tgacaatggt tttatctggt ttgcttaatc aaaaaatcaa ctggtaacga	60
gggtcaagag gtatttttga aaagcaatgt aaaagggact ctccggagtc cttttttatt	120
tgtattgaaa aaggttcgat tatgaatgaa aacatatatt aaggttaacag gaaaaacctg	180
tcacactatc cacgctga	198

<210> 4717
<211> 183
<212> DNA
<213> *Enterobacter cloacae*

<400> 4717	
atgaaaaacat attacaaggt aacaggaaaa acctgtcaca ctatccacgc tgaattacga	60
aagattgggt atttgattaa cccaatcccg aacaagaaat atcacatcaa aagaatgatg	120
actaaagcca ctgcgttatt actcatcaaa tcaatcagtg aaagaattaa aaataaccgt	180
tga	183

<210> 4718
<211> 921
<212> DNA
<213> *Enterobacter cloacae*

<220>
 <221> unsure
 <222> (180)

<400> 4718
 atgaatgcga tacaaaaagt agttgaatct attcttggta aaatgggttt tgttggcgct 60
 gtagtggaaa atatatactt ggattcaaaa ccatttcggc atattcgatt tgtggcgat 120
 attccagtaa tatctttttt accctatttg gtgaaatctt ttaagggcgc agaccatctn 180
 tactgtggta acgatgattt goactctctt ttcatatttt ttccogaagg ggctacatta 240
 aaagcaggcc ctgtaaatct cgcgaacttt cgttttgaaag ttctctatagc ttcaactcat 300
 ttacgactgg tctcagagca gccgattttg cttatcaaaag gatttaacgc ggataactta 360
 gaatacgttt attaccgctc agatttggcc tctaaggatc ttatactagg cctgtgtgaa 420
 cactgttctc ctttcataaa acatctacat ggacttatcc aaaagcgaat tttaaacgag 480
 ttctctctga ttttttctgt tcttgaaaag attttagaaa gcgcgaagcc acaaatcttt 540
 gcttgccttc atagtgttga ttatgaaatg aacgtaaaaa taatagccga agctatactct 600
 gaaactgtat ctaatcagat agtcacatct gattatatag ttaattctat atcagatgcg 660
 gacaagttaa taaatcatgt tcgtcgtctat ttacgagcga gggtaatgaa gaggcggata 720
 tacgctgtat tagatgtttg tgaagaaaaa tcaaatattt cactagttaa cttaggatgc 780
 tttacgtctc ctctgctcgt tacggaatat caaatgttta agccacactc ttacagggtta 840
 tatcgaaaag ctataataaa cctccitaaa cagttcaaac cagaaatgca tgtacctctt 900
 gaagaactct ttataacta a 921

<210> 4719
 <211> 531
 <212> DNA
 <213> Enterobacter cloacae

<400> 4719
 atgtttaaa atctgacca cgtggaattt gttagtgcct ttctttatca aaatttaggc 60
 cttaatgttc ccgctgacca tataaacggtt caattatctg atacttcggt cgacaaagta 120
 acccttgatt acgatgtaga tatcgataat ttaaaattgta tgttggatct ctacatatct 180
 gaactaataa agcacaaagc atcttattcc gattctattc ttttgaaaac aaaaaattt 240
 tattttcttg gagtattttta gaatttcgga ttttttactg tcgatatttcg cggatattag 300
 aatactttaa gccacgttta agttattgat attgtttcaa tgattattaa tgactgtgaa 360
 gagttatcta aagctaattc tcttactgat gctataagaa atctttatct cgtataaaatg 420
 aaggtggatg ggaaagtgtt agttgcgaaa ttgcaactta aacagttttt catttcgcac 480
 tttgtgactt ttatctcatt tgcogaagaa aagaattaca gattgtctta a 531

<210> 4720
 <211> 669
 <212> DNA
 <213> Enterobacter cloacae

<400> 4720
 tctttcattg ttaaccattt gaggtttcct atagttttaa gggaagggtg caaaatcgaa 60
 agaggagaag tctattcaat ttccgaattgc actataata aagaagattt gcagtatctt 120
 tttctcagg atatttacgg taagtgtgat aattccttag agaaagattt aagctcgttt 180
 ttctcattta tcaatgttga ggtgcacgag ttgttaaaa atgctgtatg ctttgcat 240
 aaaaactcga ataaagatc ttggataca cctgaaagac ttattaaagc ttttaattat 300
 cgtgactcgt attgtagtta cgaatgttgag ctttttagga aaggcttacc tggctcattt 360
 ctgggaagag tcatgtctcc agatatctta ctttcagacc ttaacgggtt tagaaaaata 420
 cttagaagtg caaaaacgatt tctaaaatga catcaaaaaa ccaattgtgt tcatattaaa 480
 tatgaattgt ggttggggcc tgtggatacc tcacactcag ctaagtgtat gctgcgaaaa 540
 gaaatttaata accgaagtga cttgaagaat ttttcaaagg tctttttcaa agagtgttta 600
 agttctggta agtcggaata tgaaaaccat cttagtgaat aagaacatgc gcttcgctac 660
 aattattaa 669

<210> 4721
 <211> 498
 <212> DNA
 <213> Enterobacter cloacae

<400> 4721
 ttgcgaattt tgcacttaaa cagttttttc attccgactt tgggtgacttt atctcatttg 60
 tcgaagaaaa gaattacaga ttgtcttaatt gaaaccttaa ggattatcaa agctgttgaa 120
 cagggctttg tacgtgttgg gcagcataag attaatcgcc gtattaatga tgacttaaaag 180
 ttaacgattg atttcaatc tgatgattat ccggcaaaata tgccagatat atatattaag 240
 ttaacgata catttgatgg gaacggggcg ttatatgtg acaatgatgc cctcatatcc 300
 ctctataccg atgttgcttc aattatcaat gtgcgcgtga tgatggaagt aagattgatc 360
 aataaaagag ggcgtgttgt ctgtgattct tcgcattcaa ctacgtatc tctcgaaagt 420
 aatgaccgat acagagtaac tgatcgaca ttaactataa ctgaagcttt tgacgatttt 480
 cgtaacgcgt ctcaatga 498

<210> 4722

<211> 270

<212> DNA

<213> *Enterobacter cloacae*

<220>

<221> unsure

<222> (70)

<400> 4722
 ccaaaccttt atctaaccga gtggggaagt cgtctccctt ctggggcact tctctcctaa 60
 tttgaggtan tgtatatgac acattcatct gatgataaaa actatgtccg agcagttctg 120
 agctatcttg gcatagattt tgatgaggcg gatatagtat taagtgtttg ccattgtcaa 180
 agtgacgagc tttcttttcc ctgtaatatc aaagctattg aactcaagaa tgcgtgtgat 240
 ttatatgtcg atagtatctc tgaacaaatga 270

<210> 4723

<211> 195

<212> DNA

<213> *Enterobacter cloacae*

<400> 4723
 ataagatatt tttggatac cctgaaagac ttattaaagc ttttaattat cgtgactggt 60
 attgttagtta cgaatgttgg ctttttagga aaggcttacc tgggtcatatt ctggaagagc 120
 tcattgtctc agatatctta ctttcagacc ttaacgggtg tagaaaaata cttagaaagt 180
 caaaacgatt totaa 195

<210> 4724

<211> 234

<212> DNA

<213> *Enterobacter cloacae*

<400> 4724
 attcagcaaa ttgcgtaaa aaacagtgaca gcaactgaatg acaaaaaaat tcccttcaat 60
 accactaaaa taaccctcgc tatcatcatt aactttattt attacogtca ttacgtttctg 120
 aatgtctggt tatccctaatt tgaaccggat gcttcgcatt cggttttttt ttacotttct 180
 ttacgtcaac ctacatttaa ttgtctaccg cttggtaatg ataacgacta ttaa 234

<210> 4725

<211> 186

<212> DNA

<213> *Enterobacter cloacae*

<400> 4725
 gttcaatttt attactttca tttatgggat attaaaagct tgattctttt tactagccgc 60
 ctgattccca cgaaaatatt tcagatgatt ttacgggctc tcaacatat aaacaaaaat 120
 ttgaaggact gctctgaaga gcccgccctc ctgcttccct attatttagc cattttcttt 180
 tctga 186

<210> 4726
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 4726	
agacaaggat taactcaaa agaattatct gccatgttgg gtgtaactca gcagacttat	60
gctcgctctg aggcacaatcc ttcaaaagca agttttgagc gtctatacaa agtggttacct	120
attttagggg tggagatttc gctcagttct gcacctcttt caacttatac aaagcctaacg	180
aattttgtag aaaaggagtt tgattcaccc gcaaggcgtg aggaatgggtg a	231

<210> 4727
 <211> 507
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (7)

<400> 4727	
aaactancgt tttcogttct cattacagcc tgtggagata aggatggaca ggttaaaaat	60
cagtcgtgtca ggattgtaga tatcacagcag gtaattatca actcaggtct ggccgaacag	120
gaggctgaac acctgaaaag tgtcagggaag acgctggccc atggacttac gcttgctcag	180
gctcagtatg aaaaatttacc tgaagagaag aaaaatgagg cgaagcagaa cgataataag	240
cttattgaat atcaatggca gaatgagaga ttccctgccca gaaaggctgt aggccaaacc	300
atccagaatg caatagataa gtggcgtatt aaaaaaata tctccatcat aattccacga	360
caacaagctc tttctctgga tgaaggcgtg gatattaccc cgctaactgt aaaagagctt	420
aagggggcga aagttaaatt tggagaacta ccgggtgatta gttttaaaca aaaagaaaaa	480
tctccatcag aaaaagaaaa tggctaa	507

<210> 4728
 <211> 204
 <212> DNA
 <213> Enterobacter cloacae

<400> 4728	
agcttcaaac ttattaataa gcgtcaggtt ttaatgtctca gtaacataag gatggacagg	60
ataaaaaatc agtctctcag gctagtagat atcacgacagg taattataat ttcaggtttg	120
gacagacagg aggcataatca cctgaaaaaa cttcagggga aaagttcacc gatggacttg	180
cgcttgctca ggcgctcagt atga	204

<210> 4729
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

<400> 4729	
tcacctgaaa aaacttcagg ggaaaaagttc atcgatggac ttgcgcttgc tcaggcgctc	60
agtatgaaaa ttacatttaa gagaagacaa atgaggcaat acgacaataa gtttattgaa	120
tacctggggc gcaggctcagg aaagttagta ctgttgctca ccaaaggact actttcaaat	180
aaaactaccg tctcagcatt cttaggcacc tga	213

<210> 4730
 <211> 717
 <212> DNA
 <213> Enterobacter cloacae

<400> 4730	
atcgcttctg gtctaaacttt caaaaaactca tgtaaagggtg gtcagatggt aagcagtaaa	60
aaaagggaagt ccctacaaa tatcaaaaga tcgctcaatg ataacgctga ccgtttttat	120

aagatgtttc	gcattcatatc	cacggcaaaa	gttgetatgt	cgctaattgc	catgaccgct	180
gtagggtttt	ctttctacaa	tctttacgaa	caatggcagg	acgctgaagg	gaagaaagac	240
catatagctg	taatacggag	ttctggcgag	atgggtaccg	gctcggaac	gggcatgga	300
acagtgatcg	caacagctct	tgccaaagct	tacaataatc	cccatgccaa	agcagttatt	360
atcgaggcag	agtcagggtg	tgggtggtccc	tctgacgcca	tcattattta	cgcgcagata	420
aacgcgctta	aaaaccacca	gccacagatt	gaacgcgtat	cagatgcggy	tggctctctt	480
tcattctgat	ccgctgacaa	gagtaacaaa	acggggagca	cgaaacgtg	cgctgaagca	540
cggtcggaag	aaaactccct	cgaagtactc	tccagcggtg	ccggtcggtt	ttctctctgat	600
atocgacagt	catataaac	aatcatcggt	agtgtagaag	gcataatg	atccgcatgc	660
tattacgagg	tatgcggcgc	tgatgcaatt	tatgcgcaca	gtaatgcctt	gatcggt	717

<210> 4731

<211> 585

<212> DNA

<213> Enterobacter cloacae

<400> 4731

acaagttaaa	ggcggggcat	caaaccccg	attcatccag	aaacaacaca	tagtcatata	60
gttactattg	aggactctcc	ctttctttct	cggttaaaat	ttaaaatcat	tactgccata	120
gatcagcttc	ctgacctcaa	tggcctttat	acaaacacct	ttaacagcat	tattgacgct	180
gcactgctga	ctcatctcaa	aaaccgaacg	gaaaaaatag	atagtcacag	agctctgcaa	240
aatgtgattt	cggtctttgc	cgactcaact	ctttctctgc	cggtgtttaa	catcggccta	300
aacgagcagt	acagataact	gacgcgctgg	ggcatcaact	ttatagaatt	ttccggccag	360
gcccgaanaa	caaggacccg	tgtatttgg	ccgatgtgtg	gacagatcga	gtggaaaagc	420
gcagagcata	aagaactggc	ggagttaagc	ctcatcgacc	aaatcatacc	taaacagtat	480
cactggctcc	tgggtatccc	gacgatgtgg	cgttaacact	attgcaatca	cgatcagagg	540
ctagctcttt	ttcgtgaatt	gagggaaagc	aatggctg	gataa		585

<210> 4732

<211> 690

<212> DNA

<213> Enterobacter cloacae

<400> 4732

ctcttttttc	tgaatggagg	gaaagcaatg	gctgcggata	atacaagcag	ggcagcagtg	60
ctcagaacaa	tgtctttttt	tggcatggtc	attttatttt	gttacagctt	ggctttccag	120
aatactgagg	agctcaaaata	tcagatttact	caggagggtta	atgcaagccg	gtccatcata	180
tcaaatgacc	gttggaagtc	tgtcaattgca	aatagtgaag	cgactttaaa	ttggttggtg	240
catgaactata	agtttaattga	ctatctgaat	actattctga	tccttgacac	caaaaaacca	300
gccagagccca	ttaacattgt	tgtctgaaaaa	ttacctcta	tttaattacac	tatggccaaa	360
aacataacct	tcttaacttta	tcagttccatt	ttccggtgga	acttaactct	ggggtggcta	420
atcgtttttt	tgccttactc	atttgccatg	ctagcagatg	gaatgtacca	gtggaaattg	480
aagagcttacg	tatttggtaa	ggttacagtt	cagtttttatc	gtatttggtt	tcgagcattt	540
tgggtgatca	gtgctttaac	gatggtctac	ctggctcatgc	caaatatgtc	actattttaac	600
aatatcgctc	aactttttccc	accagtoctg	ttattgtatc	tgggaaattgc	attgaaatcgc	660
ttgtggctcta	acttttcaaaa	actcatgtaa				690

<210> 4733

<211> 510

<212> DNA

<213> Enterobacter cloacae

<400> 4733

ggatcgatga	acaaacatatt	cttacagttt	cacatttatg	ggcttgatgc	aagcaaggat	60
tatatgtttaa	gtataataaac	aagggaatgg	agcccaaccg	caacagcttat	caatatgtat	120
gatcctaaga	accgggacct	cgctctttta	aaagttagaaa	aaaataactat	tgtcaaaaggc	180
ccactcaatt	ggaagcttcc	agtatgtgat	aatgtttctg	ctccaggtga	gtctgttttgg	240
gtcttatcgg	gaatgtata	taocgtttca	aatacgtatg	cttcccgcga	ctcaacctac	300
tattataaag	gaatgattgg	ttctgatggt	ttgaactggt	tttatcaaaa	tgaggttaag	360
ggaagcgcgt	tggttaaacca	atctaaaggt	tgcttatatg	gtgttgtagg	tcaacaagac	420
attaaaaaga	tcaatgtcta	tcagatatat	attacgaaga	ttactacaaa	tgaattata	480

cgcggtattca taggttataa aaataattaa

510

<210> 4734

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 4734

atgagcgtaa	tcttacaaca	ggcaattccg	acgttatctg	cgttgggtct	cctatctgaa	60
cctttaaaag	gaacgtctat	catgtataaa	cttttacccg	caatactagt	ctttcttctg	120
gtgttccctg	gactaatcgc	tctactcagt	gctatcaaaa	atggttctga	tgaattggcg	180
gtattctcca	ttacacttcc	ggcggtgttc	gctgctttta	gtaagtttta	ttcacttaaa	240
ctgtataaaa	atagttag					258

<210> 4735

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4735

cggaatacaa	cgactgcact	ttcttattat	atctacgggtg	caaaggaaga	cggtggcgaa	60
gtggttttaa	gaccatttat	tgtaaatcct	gatgaattaa	tgcttactcc	agcggatgtc	120
gttgaattta	attcgcaggt	tatcaacggt	gatcggcgag	gtcactctga	gtggttccgt	180
taa						183

<210> 4736

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4736

ccccccccc	cttttttggg	gggggttggg	gggtggggaa	tggtctacat	gactaagcag	60
gggctcgagg	gcagcacgca	gcaacttaag	gcaaaactggc	aggattttacc	gcacagcgta	120
cccgacgtga	aaggctacac	cggctgggat	catatgcgct	gtgatatgga	tgcggggcga	180
taa						183

<210> 4737

<211> 711

<212> DNA

<213> Enterobacter cloacae

<400> 4737

ctgatgaaag	gattatgtac	cggtctcgca	gctacgtccg	ttgtgctggc	aaccgggtgc	60
caggcgaaag	agccaccgac	acaggttgtt	taccgggttcg	atgatccaccg	ttttctcgaa	120
ttgaaagggt	ggggctgcga	aggtgaactc	tggtatcacg	atactcttcg	gggtattcat	180
accaggcccg	tcaggtcaatt	ttatcggatt	ttcaccaaaa	aatttggtcca	tcctcttgaa	240
cgatatattg	ccataccac	ctgggatgac	ccaggaaacaa	tgatttcaaa	agattatggt	300
aaaacatggg	ctccccagtt	tttttcggta	gggcctaatg	agcccgatgg	tactaaccaa	360
ccatctctatg	aggatattat	ttctttcacc	gtcgtcaacg	atcagggttt	tttactaacc	420
aaacaccggc	tgtatatgtc	atcaaaagcca	tttgaagacc	cgccgattct	gcccgccggg	480
ccgggggattg	cctataccgt	ggatgacgga	atgcgaataa	aagtaagcga	taacgtggac	540
cccgctttcc	ctggctgggc	ctctatatga	ctaagcaggg	gcttaagcac		600
agcacgcagc	aattttaaagc	taactggcaa	gattttaccg	acagcgtaacc	cgaaagtgaag	660
gggtacaccg	gctgggatca	tatgcgctgt	gatatggatg	cgggggcgata	a	711

<210> 4738

<211> 711

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (634)

<400> 4738

ctgatgaaag	gattatgtac	cgttctcgca	gagacgtccg	ttgtgctggc	gaccggatgc	60
caggctaaaag	aaccgcccac	acagggtgtt	taccgggttcg	atgatcaccc	ttttctcgaa	120
ttgaaaggct	ggggctgcga	aggtgaactc	tgggtatacgg	atacttttcg	gggtattcat	180
accaggcccg	tcagtcaatt	ttatcggatt	ttccacaaaa	aattttgtca	tccttctgaa	240
cgatatattg	ccatacccac	ctgggatgac	ccaggaaaca	tgattttctaa	agatttatgt	300
aaaaacatggt	ctccccagtt	tttttcgcta	gggcccataatg	agcccgatgg	tactaaacca	360
ccatccatg	aggatattat	ttctttccac	gtcgccaaacg	accagggttt	tttacagacc	420
aaacacccggc	tgtatatgtc	atcaaaagcca	tttgaagacc	cgccgattct	gcccggcggg	480
ccggggattg	ccatataccgt	ggatgacgga	atgggaaaata	aagtcagcgg	gaagctggac	540
cccgcgtccc	ctggctgggc	gtggggaatg	gtctacatga	ctaagcaggg	gctcgagggc	600
agcagcgacg	aacttaaggc	taactggcaa	gatntaccgg	acagcgtacc	cgacgtgaaa	660
ggctataccg	gctgggagca	catgcaatgc	aacatggatg	cgggaaaata	g	711

<210> 4739

<211> 204

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (86)

<400> 4739

ggagataaag	cgatgaaagg	cgtcattagg	ttaaacgac	cgctgataag	cggaagaaaa	60
gtcactaagg	cctctggggc	aaactntatg	gggcagcccg	tgcccttaaa	agatgatctt	120
gcgcagtgtc	cgctccataa	aggggaagtc	gcaatcactg	attgtcacca	acctggaaca	180
tgcattggcc	ttgggtttgt	gtaa				204

<210> 4740

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4740

atggctaaat	taacagacat	ttacagttac	ccatcgttga	tagaaattgc	ctatcaagcc	60
ttgtcatatc	tgagttttaa	ccatcaact	gtttatatc	gaaaaagaga	taaaaagcag	120
tttttatata	acctgtttt	tgtctcaaaa	ggagatagtt	ttgatactgc	tgaaaaaggt	180
ctaaaaaggt	gtgtttag					198

<210> 4741

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4741

actggcgacc	aagatcgaga	atggtttggg	cacgaatggt	tcctgcgagg	tggcggtgaa	60
tatcagttaa	aggcaggcgt	gtatcaatca	tggctgcact	ctttgctggt	taaaagtcgc	120
catattataa	aaacaaaacg	gggtaaaaag	ctattttgcg	aagggaatat	tcctgtgcgc	180
aaataa						186

<210> 4742

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 4742

gcgcgggatt	cagccaggcc	tgtgcggcaa	gacgaaggcg	ccaaagcggg	tgctctggtt	60
------------	------------	------------	------------	------------	------------	----

ccagcgacgc	gccagataac	cgtaaaacca	gtccgtcacg	gcagcgatca	ggaaaaataag	120
cgcacaggca	aaaggcgccc	agacgaccgg	caggtaaaaat	gccaggacga	agaacggaaat	180
gagcacaacg	cgaaaagagag	tgagcaacgt	agggatatta	aatcgcatga	tgacgggtaac	240
tgctgtgtgt	cagtaaaatt	tagctctatg	ttgtactaga	gccctcaatg	tttcaacgag	300
tag						303

<210> 4743

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 4743

attatgaaca	ttaccgacaa	agaactttac	tcaaatcacg	tgagacagta	tggtatggaac	60
ttacgagagt	tcaatcactc	aacgcctttt	acatctcatt	ttattttatat	caccgactat	120
cataaagata	atacatggat	gatttcacat	tcgcaggagg	attttaatac	aacccaaatt	180
ttacacatcgt	taagtctagg	gaaggtcgca	acaagttcct	ga		222

<210> 4744

<211> 516

<212> DNA

<213> Enterobacter cloacae

<400> 4744

atggtagaag	cacgttatca	aggcaagcct	gttagcagtc	ttcctgaaga	agctttttgct	60
gaagggttat	gcggtacccg	tttaagcccc	gttctgtctac	tggtcatccc	gaccacagta	120
cccggttacc	cggatgagcg	ctgggtggctc	gcaaaggaaa	acgtgtcagg	acattacggc	180
aggaattttt	atgctgcggg	gcgggagttg	gtcataaggt	cggatatcat	ctcagtagtg	240
agaagtattg	cagatgagaa	tttccagctcc	gaacatatgg	ggtaacttga	cgacattacc	300
ttgatgaaa	aagaagtcgt	gtttagtgtat	tacctgcgca	ctctcgtctga	agggcgtctt	360
acctgcactg	agaagaatct	cgtaaaactg	acgcaagatt	tatacccgat	tgatgcaact	420
cctgacaaac	ttagaagaag	atccacggac	agggatgcac	tgaacgaact	acacatcgat	480
ggatgggtac	ttttttattac	cggccctcg	ctttga			516

<210> 4745

<211> 501

<212> DNA

<213> Enterobacter cloacae

<400> 4745

aggtctaaca	tgatagtaaa	taaaaaacagg	tttatgcata	aaaacgggaa	aagggtttaag	60
tcacatcgaa	ggtattttaag	atatttggcaa	gcagtagcgt	cctctgggttt	accocatggac	120
atgggtaatac	gggaaaaaac	atatcaactt	atgggtcgctt	tgattgcttt	atatacggcc	180
atccctgtgt	ttacaatagt	aatttttatct	ggtcagcaat	cgcataagtt	ggaaactaatt	240
gctgtgcatt	tcagtacaat	tatcacgatg	gtgtttgttt	tcgctcgaaa	gatggggaaa	300
cggttggctgt	atttatttga	agaaaaatta	gccatttata	aacctaatga	taaacctcgcg	360
cttagcgaat	tacacgaag	catacgttag	aaaaatgggc	tagacttgca	ggatttacaa	420
gattgtgtact	ggaaaagaaa	gatgacatat	gagtatcaca	aagaacgttaa	aacaactata	480
agctatcaaa	aattcaagta	g				501

<210> 4746

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4746

tatgggttttt	cccgattttac	catgtccatg	ggtaaacaccg	aggacgctac	tgcttgccaa	60
aatctttaa	accttccgat	ggacttaaac	cttttcccg	ttttatgcatt	aaacctgttt	120
ttatttacta	tcattgttaga	cctctatatt	tctgtaattc	tagaagaatg	ttaccttaac	180
ccttaa						186

<210> 4747

<211> 201
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4747
 ataacgccta agctctgcac atcatccatg tttctggcct gttggctgtc tattctgatg 60
 gctgccatcg cgtttgcact gagcaaaaag cgagccaaaa tggcgattgc gattcttttc 120
 atgatatgag ctccacgact gcgctgctgtg atacggggga atgctctcct tctctgttca 180
 gggtttctga ttaagtgtga a 201

<210> 4748
 <211> 189
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4748
 cgtgatccgc caggttttct gatcccgctt ttcagcgcaa gcccttgccg caagcggggc 60
 aaaaggcgca aaacaacaac tattttacaa attggcgacc tggcaggctg ctttatcgcc 120
 cctttaaatg atatactgcc tgtcgttctg tcaaaaatag ttgataatta caacattccc 180
 ttgaattga 189

<210> 4749
 <211> 234
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4749
 cgcaggtggc acatggaaat tgatctcgat aacttactct ttaacgggct ggatgaagca 60
 gaagagcgca acgcggaacg tctcgacgat gcggataaaa aagcccaggc gattgtcgcc 120
 gatgacgact gcggggaatg cctgcaaatg ctgaagaaaa agcaccgggc tcccgggtgc 180
 ttttttatg aatgcctttt gttacctgat atcagatctc cggcgttttg cttaa 234

<210> 4750
 <211> 231
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4750
 cccggtaaaa aacaacgaca cccgtgtgaa cagataaagt tgcacgcgaa agttctggtt 60
 atcaccaaaac cggttaatca tcatittgaa aacttttaac agataccaca gtgtcaacag 120
 tacggcggaac caggaaaaat agataattta ccgaattcga ccattgggtta tgggtttacc 180
 gaaattcgca ccgttaaaga atcccaaatg aagcaccata ttcttaaaag t 231

<210> 4751
 <211> 1110
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4751
 gtggatacct ttttaccctg tgttgacaag atgggtttaa attatattcg tgccgagcgt 60
 gaggcagaag aaccttacgc gcagatgctg agccaggctc tggccgatgg aaatatggc 120
 cagcctaatc tgagatcaga gttgatagat cgatgcattg tagcctggcg agctgataac 180
 agggggggcga cgtctggaag tgccatgagt acagagaagg gctccaaaaga gctcctgaac 240
 cagctctata tgcctcgctga tgtggggctc aaacatcttc ccgggggtcg taattttatt 300
 agcagcaaaag gctatgagct ggtcagggtta tcggtaaatg cttcagggaa acttgttgca 360
 tatgcgcgac cagcaaatatt tgaatgcgca aaccggatgg aagggcattg ctgggttcac 420
 cgaattggtac ttgtacatc cgaatattgc ttaaacgtca ctcatcaacg ttttgcgaaa 480
 atgaaacact cttaccaggc tgaaaacacc ctgttcgaag atgaacagct ggtggccaca 540
 tggctcgggca aaaagactgc tttcaaaagc ttcgaagaga agcagcggtta tttgatata 600
 tgcctccgtg gcgctcaggc tcttaagcag tttttaagc tgaacgatcc ggtgatttac 660
 accaatctgc ttggccagtg gattgagccc tatgaaagta tcaatgaaac cagtgaagtac 720

[illegible]

gcgttaataca	acattggtat	tgccatgag	aatgttttga	atgcattttg	tgctgacttc	420
ccccgggcca	atgtgagcgt	aaccggtttt	cattgtggca	tgacgcttga	gcagatccga	480
atgttcaattt	cagacaactgc	ttacgatatg	ccgctttata	acaacgagtc	tgactttcgc	540
aggctcgcca	gttag					555

<210> 4756

<211> 237

<212> DNA

<213> *Enterobacter cloacae*

<400> 4756

aatcgccagc	agatatcaac	gcccattaag	aaactccatt	actatcgctc	gtatgagata	60
actatcattt	cagaatacta	tgacttcttc	ccgtatagaa	ctaactcgctc	acgcccattt	120
gctaactact	ttttttacgt	acgcttgacg	cgcaactact	tgagagaagt	aagttaagct	180
ggcggaagcc	aacgggttcc	gcccactcgc	tcacggcctt	ttaggcgtaa	gcaactga	237

<210> 4757

<211> 243

<212> DNA

<213> *Enterobacter cloacae*

<400> 4757

cgtatcaccc	tttcgagcgg	cgggaaaacc	acgatgatg	acgtccgggc	ttccggactg	60
tattgcccc	gaatgtgcgc	tgacatctat	ggctgcctcg	ggcgaggct	gtcccatgtt	120
caaaaatcct	tttaccatatt	agctgttaat	tttaacaaca	ggcgttttaa	tatctgtcag	180
gtttgtacca	ttgatgatga	gagtatcatt	agctttcctc	tcggcattta	ttccgcgcgc	240
taa						243

<210> 4758

<211> 186

<212> DNA

<213> *Enterobacter cloacae*

<400> 4758

acttctactt	ctactctctac	tttttctaac	aaagatgaaa	ttttgtccg	catttccccg	60
gttctgttgt	ttcgttcatt	aaccattgaa	gaagtgttaa	catcaaaaca	attcgatata	120
acatatgtgt	tttggacttc	ctggtttaga	agcgcgatac	tatttatcca	acgcaggaga	180
tcctaa						186

<210> 4759

<211> 630

<212> DNA

<213> *Enterobacter cloacae*

<220>

<221> unsure

<222> (481)

<400> 4759

acaactgtaa	ggtcaaatat	ggaagctatc	aataattaca	atagcgggtt	aaatcgccat	60
caattagggtg	gggttatccc	tggttaacgat	caattagcag	ggactcacta	ttttttgatt	120
gatggcaaca	gattagggtt	tatgtttatc	tgtaatccat	ccoctggagt	ttttgataat	180
cagcaagatg	ttcttgcctga	aatgttcaaa	atggatttcc	ctacagatgc	tgctgtgtcaa	240
atatctctga	ctgcattgac	agacctgact	ttacagctta	tgcttggttc	agctgtgcga	300
ggtggcgcta	tgactgggaa	cgataagcct	aaagcagatc	tgcttaattg	ttatcagttg	360
gactactacg	acagaagtat	gcataagcct	ttaaaacctg	atcatgatac	cccttatgtg	420
aggggatttc	agggtatggat	ctcgctatcg	attcccttac	agtttgccct	tcctaccgag	480
ntggaaacatt	cgcgatatcga	ttcactttac	tctgaacttg	taagtaagtt	aattacgatt	540
ggattgcac	cgtttaaggt	cgatgcagaa	aactggctct	attgtataga	taaggtcgta	600
aaccccgcca	aagaactccc	ggtgggtcga				630

<210> 4760
 <211> 459
 <212> DNA
 <213> Enterobacter cloacae

<400> 4760
 accttcccggt tgggggtttat tatgaaaaca cctaataaga ctgaatcaga gcttttacag 60
 acattagctc aagtagcgag cgtaaataaa aagcgacatc atgacgagcg ggaagagccg 120
 gataagccat cggtagtgaa gaggaacgc gttacacaag gcttaacgcg gattagtact 180
 ctcgatcgcc aggtctgtact gcatgcagcc atacgggaca ttttgcgtgg gaaaatcaca 240
 caggggagagg cgtgaaaaa gctcagggct gaggtgttag ggctgaagca ggatgaatat 300
 gcaaaagctgg tcagcgtatc ccggaaaaca ttgtcgagat tagaaaataa cagaggcaat 360
 tattccgctg acgtcataaa taaaatcttt aaacccttt ggcttcaaac cggactagt 420
 cccgtttcaa aatcgcttat cgttcacatt ttctcataa 459

<210> 4761
 <211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 4761
 tactcccata actctaata gctcggtgg tttaacctt cggtagctgt ccatcaggtg 60
 tcgttttttt ccgtaagaat gctctagat ggcgctccgc agaaagaggt ggggtgttacg 120
 gttattctgc cagaaatccc gttgtgttca ggcgtgtgcc tgcgttccg gcaggacact 180
 tggctgtga 189

<210> 4762
 <211> 939
 <212> DNA
 <213> Enterobacter cloacae

<400> 4762
 gttatgacga ttgaaagett ttccatcgcc actcgcattg caggaaaaacg ttatggacct 60
 cagagtaaaag acatgcaggt ttctgaattc atagcaacta tatctccgaa aaatgaacca 120
 gagaattttg tctaccgca ttctcccggt ctggcacgct ggattgacgc ccagatccgg 180
 aatcagttta ttacgcaaaa agaggatgac tattaccgtc gataccgaca gcttccggac 240
 cgggtggtatc aggcgggctc tatcagtgac agaacaatc gcagccagcg ttttgagaag 300
 gtcagtgatg agtcgcttga gtttttgggt tacagtcatt atgttatgcc caaatcaac 360
 ccatataatt tcaaatacga tgaacgcgtt cagggttagca cgaaggcga aatgtactgc 420
 gtacgccttc tgttccatat tatcgctcga cggccctatg agccagcttc tgtatggtgca 480
 gatccatcgc tgcaaaaggca ttgcaagtggt ctgaaggact ggattaataa aacgttaggg 540
 gatcattttt tagagggaat gatgattact ttgcgccctt gttatccctga caactttcct 600
 gccctgacgc gcccttagcgg agaggttagaa acacgtgatg ttgacacatt cctggctgac 660
 gaagttccta aggcgaaggca acacacagag gaacaggtta attatcataa cggccggtag 720
 cggttgaaat tcgagtacac tcaactttac caggagcaat ttgatttttt agccgaaatg 780
 cgtgatctcc attaccggat agatcgtatt gaacagctcc ttcagaaact gatagataac 840
 ccgtagtagg atttcagtag agctcgtgtt gcagggcagt ggattgacga acaagtacag 900
 ctgcttgaaa caaacgaac gaagctaata ctcccataa 939

<210> 4763
 <211> 291
 <212> DNA
 <213> Enterobacter cloacae

<400> 4763
 agtcatttga gttagacgcc cgcgccctgc ggggctgaag agtgtttgac attgatagag 60
 tccattaaag taataaagag gactctatca tcgtcaatcg ttagttaatcg caacaggcgg 120
 cagtggtgtg acgctttacac ccaatctccg gagattcaaca tgcctttctc tgattttctg 180
 aaaatcattc agaagtttca gtgtgcaact gtgctgaaa aagtactgat gctgctgttt 240
 gtaattctga tcattgtgca acaggtgato gatacgttct gcagtcgata a 291

<210> 4764
 <211> 597
 <212> DNA
 <213> *Enterobacter cloacae*

```

<400> 4764
tcaaggggca ttagggcagc cacatacgtt aagcaaacag tacagaacaa tgaacaactt 60
tttgattcct tagtgataaa tgcctatgat ttccttgagt catcaattga tgattttaat 120
attaggccca agaattcgat tgttgatttc tatacagcca ttgaactttt cttaaaagca 180
aggttaatgc tgaacacactg gactttaata ttagatgacc ctagcaaaagc taataaacaa 240
aaatttagcg ttggtagact taattctgtg tattttaatg acgcagttca acgtctcaaa 300
accattattg gcattaaact tgatgacaat atccttgatg agttcagaac gttaggtgcg 360
cataggaacc aaattgttca ctttgcacac actggatatt caagcactca agctaataaa 420
gcaggggttg tagctcaaca atggctctca tggcaccatt tatataattt actcaactgt 480
gaatggaaa atgaatttat taaatttaag gaagagtttg agcgtgtgca taagagaaatg 540
ctgcaacaaa aagatttcct cagcaccoga ttcaatgagc ttccaaggag agattga 597

```

<210> 4765
 <211> 453
 <212> DNA
 <213> *Enterobacter cloacae*

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<400> 4765
gtgaagacca atagattcat agtttctacc gttgatttga tcaatgaatt tgcgaagtgc 60
gttcgcgaga gtgtttcctt accgatagat acaatgcttg aacagcgtat ccgcaaatgt 120
cgccgacatg tgaagaaaaa cgatcttcat ttaactgagt ttactctcta tgacgcctaac 180
tggtcaattt gtggtgaaga tgaatttcaa gaaataaaa acatggatga atataagcat 240
agcgacagca taaagcagga agcgaatgctg cggaagataa tgccatcagc acgtacggaa 300
tgcccggtta ttagggtgat gaaagattca ttacagcttt cagctctacc acgcaattgt 360
ggtgatgaca tgactcttaa cactcctttt attccgctgt ctgagttgaa aacaaataat 420
acggcattta ttacgcgcgc aacctataac taa 453

```

<210> 4766
 <211> 414
 <212> DNA
 <213> *Enterobacter cloacae*

```

<400> 4766
tgacgacata accgtgggtc aggaaaaatat atgtttattg aaaaaagcga ctcatctcct 60
gaattatcct cagaagttat ttcttcctgag gcggctaattg ctgcattttt gaaacatgat 120
aaatgggcgg atgtttggga gaccctgaca accgatgccg atctgaacta taccgatgaa 180
aaggagactg tgagtcttct ttctctggtc atgtcagcca catctgctat ttatcaggct 240
attacggagc gctggacaat gtgcgtggga tacagtgagg gcaaagactc ccattctcct 300
ctgcacctgt ttctgatggc attgatcagg gcaatagcta acggcacaaa tatcagcgaa 360
catcatttca ttcatagtgc cgatacgaac tactaccaca ctggttacagc gtatg 414

```

<210> 4767
 <211> 222
 <212> DNA
 <213> *Enterobacter cloacae*

```

<400> 4767
gatatttggt gtgatctcat aagcacattg tggacattta ttgatattt aactgaaaaa 60
tttgaatggt actttacact ttgggcaaaag caaactatcg gtgaattgct ctaccgata 120
gcccttgcca ttcccaaaaa agaaatttat aaatcatctc ccccatttat gagtatcatt 180
aactttcaac ggttttccac ggccccattt gaacccgattt aa 222

```

<210> 4768
 <211> 228
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4768
 gcaaaacccat tggctcggtc gctttcagtc cggttcgcca agacctcata tcaagtacttg 60
 atggctgtgag gaattctctg ggaatgcgtat gccattcgcc caaatagact agagaacccat 120
 ctgattgtcg aaataagtc tccacttttt gctgatgat ttctctattc cttctattc 180
 gtgttcgcga tcttacatca cctgatccag gttctgatat gtgagtga 228

<210> 4769

<211> 930

<212> DNA

<213> *Enterobacter cloacae*

<400> 4769
 catgattggt tcataggaac tatittactoc ccatacgtta tgaacatatt ctgtccccc 60
 catcttgaca ttgccaatcc gtatgtaaaa atacaaaaaa aaagttagca agatagagaa 120
 atggaatcaa aaaatagtag tttttatttt gatagagtgt acctttttatc taagtctatc 180
 agctattcaa cattaatgat ttctgtctta tctgtgtgct ggattttttt gaattctcat 240
 tggctctcac gtatcgcaac cctcactttt ataatacaac tctcactttg gtttgcagt 300
 cattttaaaa ctctgtatgc agctaaggct atagaaacaa aaagattaga aatgctgaga 360
 ggtattatag cggaagaaaa tttttatcga gagcggtctt acattgtagg gaatgcggaa 420
 aacttttaac gctttcgtgc agagaggtta ataacatca tacaagagaa tgcatactgg 480
 aactctatct tatataattaa agctttccag cagaagttat tctattttat actaacaata 540
 ctactactaa ttactataat tattattatg tataccacgc tgactgataa ttagattttt 600
 cagtatagcc gcgccaatatt tgggatacta gtcatataaa atttctataa ttattctetca 660
 gaggtgtcag gttttctcaa cgctcacaat gagatgaaaa aaatagatag ctctatagag 720
 attaataacc gcaaacgccc agaatactta tcttatatat atttcaataa cgaacatgag 780
 atatttttgc tccaagcat taataatgca atttatttaa aacacagtat gcaaataaaa 840
 cagacctggg cccagcggtt ttataataaa aataactttc aaagcaaaac attgatcgac 900
 gcgattacag aatttaccatt agtacgccc 930

<210> 4770

<211> 792

<212> DNA

<213> *Enterobacter cloacae*

<400> 4770
 ccccgcttga gagctccttt gccgtagtgc gcaggtgtag aaaatcagcg ctgtgattgcg 60
 catccttcgc gtagtggcct ttttgcagat gtgctaactc tcaaaacgca ctgctccggc 120
 gacgaggtca ttccacgtta taccgtacag aaagattaca atccgcaaga aggagcgga 180
 aattatttcc tgaattaaagc ggctgtgccc gctcgcgact accctgcgct gccgaatgat 240
 attttactta ctgtagttaa ctgggattta ctgcacgtga gtaacttggt tctggtgaa 300
 ctgctttaaga ccgtgaacct cagtgctaaa aacagcagtg gatttaaagt accggaatcc 360
 tggcaggtga atcccctaac agaaaacgcgc ctggtgtgtc agcaactggt tgatggcatt 420
 aactacgggt tcatataatc ttgctttttt tgcagggaga ttgtttttac cgcgcagagt 480
 gtttttagcg ttctgattaa acggtttcac gatcgagaa ctgccgttac gcttaagact 540
 gaagcacttg ctactattcc aaatgagttt aatccatccc tcggaaaaaa actgtggaca 600
 tgccgggggg aaatgttcag cgcagaggaa gaaatgcgct ctgtttacca gtgctatatt 660
 tttagcgtgg gcaaaagtctg gtgctatgca gaactgattg gcagacaccc taactatcat 720
 gattaccact tgcaggcgaa taaacgtgc ctcgaaatac tctgtcaac attccatata 780
 gaaaatgtct aa 792

<210> 4771

<211> 399

<212> DNA

<213> *Enterobacter cloacae*

<400> 4771
 ttaactgaat ctactgcaat gaatgaaatg acaatgtttg gttacgttga tagagcatta 60
 accttagcac agaaaagata tgcagacgtc aagaatcgtg atccccaatc cccgcttttg 120
 caaatgtac actctattgt acaacaatta ttatttctac gggatttaat cgaaggcaga 180
 gaaaaggata gagcgaaatt atgggatatg acgttcgcta tttatgcagg gaaggagttt 240

gatcattctg	atgagttgtt	ttttgaaagg	ttgtcagatg	cctgggttat	tgtggatcaa	300
atccgcccag	ggttaaagg	taggctgccg	catgaggtcg	ataccaacta	taataaaaag	360
aaacaaaacc	tcataagaa	attccctgat	gaatttttag			399

<210> 4772

<211> 252

<212> DNA

<213> Enterobacter cloacae

<400> 4772

ttctctgagg	tcagtctact	cactcatggc	attagataacc	aggagcatat	taatgccagt	60
aagaatgatg	cgtgtaacca	cagcaaaaagt	tataaacgac	ctgaaatttag	tcaggtttata	120
ggttttcatgt	ctgacaccgc	ttattccata	tatctgaaaa	aatggcaactc	caaatattac	180
catcaaatcc	agataaagaa	gaaaacgaat	aacaatcata	atcaggtcgt	tcataatatt	240
acttcactgt	aa					252

<210> 4773

<211> 405

<212> DNA

<213> Enterobacter cloacae

<400> 4773

ttgtgaaagc	agcttaaaac	tctaaatgga	cgaacagggg	aggtgacaaa	gatgacaaacc	60
aatacaacaa	cgaccaccta	ccgtccagaa	gaaatcgtgc	cggtccagacg	gcccaaaagg	120
gatctggata	gtcgttatat	gcctcaggtg	tatgcaatgg	tgcggaactg	ggcaagttaac	180
ccgtgcctaat	atggtgaggg	tgacctggcc	tctaccgcc	aaccggcagt	aaaccttgcc	240
taccaggttaa	aaggaaactg	tgtgttttta	attctggtag	cagttagagt	cgagccacct	300
ggagtgtata	tgacggaaac	agtcctgttg	ccgtccactat	cacttgttaga	agtccttgacg	360
accttgccagg	aggcctggca	aaatattccg	gcgttaaacc	cctga		405

<210> 4774

<211> 306

<212> DNA

<213> Enterobacter cloacae

<400> 4774

tcacatacaa	aggaggcat	tatgaatata	ttttatacag	tgcttttggc	ctggattgtt	60
gtgcttttta	tcgccaacaa	actgctcgca	agacgtaagc	ccaatacggg	taaaatcctg	120
gtacagcgca	acgggaaaag	cgcagaggtt	gatgctgtag	tggttcaggg	ttcaaaagaga	180
gctaacaaca	gttctgttgc	ggacagcgac	gcggtagata	gttattttga	aatgaatcct	240
tactcccgcg	aaaaccaggc	gaatgggttg	gctatgctgg	ccagagacga	tgaccagctt	300
aaataa						306

<210> 4775

<211> 309

<212> DNA

<213> Enterobacter cloacae

<400> 4775

ccattccggc	ttgatgccat	caaaacttaca	acgtccgttt	atgatgacga	cattgtatata	60
ttccagttct	ctagoccttaa	gagcagaactg	aatagccctg	atgtgccctt	gggtttgtctt	120
aaacgggttc	tgcaacttga	gggttcggga	ctgagttccat	ttccgcccagt	gggtttctctc	180
cagagtaccg	tagagcttgc	ctacgtagtt	tttctgtctt	atgacgtata	taccatgtgg	240
ggctacgaga	atgtgatcaa	ctgcgctagt	gctatgagcc	gacaactgaa	aggtgagatc	300
actaagttag						309

<210> 4776

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 4776
 accgggtgga tctgcggcgt ttgctgcgcc gttgaggtgc ccatttttagg cgggaggggtg 60
 atcaacattc cgtctggaagt gttaccgcag ccgctgggttc cattaacgga actgaacgggc 120
 gcaggcgctg tatttgaact tgtacagcct gccagccaga gcgaaccagg tgataatgcc 180
 gcaacagctc ttcaccgcg gggccggcag gaaccgcagt ga 222

<210> 4777
 <211> 561
 <212> DNA
 <213> Enterobacter cloacae

<400> 4777
 ctgatgaggt ttttgaatcc ccaatggcga aagccgtgta cgttgctggt gggcaaaagt 60
 cgcttgcata aaaggttggc gttaccgcaag gagctgtctg gaagtgggtc agggggatca 120
 agaaaagtttc tccggtccat gcagtggcag tctcaaacgc agttaatgga gttgttaagc 180
 ctcatgaact cgtctctgat ttgcgcactc ttttccctca cccgggcaat gaggtgtgat 240
 atgtcgcggc atgctcgagg aatcatgaat cactctgact tgcatacgtaa atattcattc 300
 gataaccacac ttcagcgggt ggtcatgctt cgcattttta tgggcggatc tatggatgga 360
 gaaggggagc gagtaatcga tcatcaggta ctgtacgaat tctgttctg ctcaaacgag 420
 gcaatgttta agagatcaca gccctttgaa cgagcaggct tcttgaaagt gaaaaaatt 480
 ggtgctctcg ataccgggct tgcagtctgt cttgagccag ctccggcgta cacaatcacg 540
 ccagttcagg agtttgtgtg a 561

<210> 4778
 <211> 210
 <212> DNA
 <213> Enterobacter cloacae

<400> 4778
 tcaccocaact gcttgttttc gataaacaag gaaacttac gaaacacttt acgaatctct 60
 gcaagcataa taaataaatt caactatcat tcatattgtg aatggatacg gagnaagagc 120
 gtggagccta tgaatttacc agcacaacgc ctgaatgaaa ccagcggcga agataagccg 180
 caaattttcc ccgacgtctt cactcactga 210

<210> 4779
 <211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 4779
 aatagtggct ctggtctatc gaataagac ctatgtctctg tgattattgt caccaaaat 60
 cgtattaaac cctccctgtc actggctaac gacgaaaact tattttatca tcaaaaaat 120
 caagggcgat tgatccggcc tgaagggttc caggttacgc ttagtccagg ttgcataat 180
 catccgccca cttttactta a 201

<210> 4780
 <211> 354
 <212> DNA
 <213> Enterobacter cloacae

<400> 4780
 catactccga ggaataaaat gaattattgaa gttttacgct atctcgaaag tgaaggctgc 60
 gaaccagttg aggaaaaagt gcaaccgacc aagtatgata gtgaagcaac ttttgcagta 120
 ataaagattc tcatagccaa tgatggcaat gcagatgctc tgagtgtata gcaaaaattc 180
 catctcaaaa ctttctgata acccttaac aaccgtgttc cttgctctg tatctatggt 240
 gaagataact gcacaggcga tggctttgtt gacgatgaat ctctgttgat gagctatcaa 300
 gagagcaggt ttagtgccca acactgccg tatgatgcg aaaaatcgaca ttaa 354

<210> 4781
 <211> 399
 <212> DNA

<213> Enterobacter cloacae

<400> 4781

aagggcgccg	gcatgagcag	gaaaagcaca	tacaaaacca	aagccgaaaa	tgagcacctg	60
gcgcgcgttg	cgcgcgttgg	atgcacgcgc	tgtaaaaaaca	tcggacatga	agatactcgc	120
gtcgaatctc	atcactgcag	caaaaggcacc	ggcttagccg	ttcgtgcaga	taatttccat	180
gtcatccgcg	tttgcgccat	tcaccacaga	cagggtggcc	acggcgcttc	aattoacgct	240
ggccgaaata	cctgggtaca	gaaatacggc	acggaagcag	agctgctggc	acaggtaaac	300
gcagaattcg	ggatagcagc	atggcattcc	atccaatcaa	tatottoaca	ttacaacctt	360
aatggcgccg	ccagttttact	gaaggaagaa	aataaatga			399

<210> 4782

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 4782

gcaaatattaa	attactctga	tgtctccaac	gataatacac	tgtgtaata	tacagtgtgg	60
tggttttctaa	cgggagatat	catgcacatt	tcagacgatg	tgatacccg	cgcagcgggg	120
catactggcc	cgtgttttagt	ctatctagag	tgtggtcgga	ttagcggcgg	atttgtttta	180
cagccagatg	agttcgtttac	ttcgtctggc	gctcttgatg	aagcgcgaca	gcacgcaggc	240
cttactccgt	gctcttttag	ccatccagta	agtgttttat	aa		282

<210> 4783

<211> 267

<212> DNA

<213> Enterobacter cloacae

<400> 4783

actgttaatc	gctcattttg	ttattgggat	ctctctgaga	acaattgcaa	agaaaaagaa	60
atgctcggat	ggtagctgtaa	gaaaagatct	gcaaacccga	ctcgggttcg	tagagggggg	120
gatgtcaatg	ctataaaaatg	gggggatgcc	ccccctttac	tttactgttt	taacagttagc	180
cttatatttt	gctaataaat	gattagacag	tgtaataaga	aaaaaacagt	aactatggca	240
agccagacgc	aaaataaaca	agcgttaa				267

<210> 4784

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 4784

cttccccccc	gcaatggcgc	gctgatgcct	ccatcccacg	tggtcgaaga	caagcgtatg	60
aaaaatattc	gtacagtcac	aaagggtgtt	tcagagatgt	tagtcagggt	cgaaaaacttc	120
caagagatct	gtcggttata	cgtagaccgg	aaaatggagc	tttgttttac	tacggatagt	180
gctgacagga	gtaaatattg	ggaattcaaa	agccgcgaga	attgtagata	tggcgaggga	240
atagaaattc	tctatgctca	agaagttagca	gcgggttttg	ccgcgtag		288

<210> 4785

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 4785

cgctcatattc	ctgcgtgcgc	gtctgcgcac	accagtcgac	gggtttttt	cggtcatcac	60
attaccgggc	aggagatttt	atcaggacgt	ggtgtgactg	agcagcagct	ggggcaactgt	120
catccgcttg	cagatttaac	ccctttaatc	gcocaaactg	cgttcagctc	tgatagtgtc	180
cttccgctct	gggcagggtt	gctaacactg	gctcccttaa	tacgaaatgc	gcctgctgat	240
aaagatttaa						249

<210> 4786

<211> 576

<212> DNA
<213> *Enterobacter cloacae*

<400> 4786

cgaggagatt	acgggttatg	tgatgctcgt	cggtttacat	cgaggagcat	tttaatgaat	60
tttcaaaacta	acgaagtgtt	taataaaatt	gctgctgtta	taaaatcgcg	catcgctcaat	120
gaaccattgat	catgctattt	gctgcatgat	aatgagatag	atataacgat	tttgaataat	180
ggcatattag	aaaatgcacg	aaacctgttg	tacgtagtgt	gtccttcacg	aacggtgttt	240
ttgcgttttg	acaaatat	ctatccgaaa	tattatcttc	gttgcgttgg	agattataag	300
tcattcatat	atgtccatct	tgatccacat	agtggtgaag	ctaaagaaat	cacatgggag	360
caagcagacg	atatgctgtc	tagtccagga	aaacccocat	taaaaggaaa	tcttggaaga	420
tttgagtata	taaaagtgtg	ggttgaggac	cttcgtatct	gagggttacg	tgattatctt	480
cctcggtata	atcttgatga	ccttcgcgtg	tttgccttac	aggcagacgg	cccatccctt	540
gtcagataca	ttgacaattg	aatggcaacg	gtctga			576

<210> 4787

<211> 924

<212> DNA

<213> *Enterobacter cloacae*

<400> 4787

tgggcaaacct	gcatacagga	ggcctcaata	acgactggag	gctgtatgaa	gttagctacg	60
gaacctggtaa	aagctatttt	gattagaaat	ggtgttgaac	cagtaaatat	aagcgaaatca	120
tctaataatt	ctttgaaaca	accactgaca	gaacttaaat	tcagtttata	tttggaact	180
gagcatattat	ctcaacttct	accgggttat	gtttattcta	taaaagaatg	tcacactgtca	240
tatgacatcg	ggatcgaaat	tcagaaaatc	ttcgaaagtt	tacatttgtt	aaacgaagaa	300
tttgaatccc	tcggttttgt	ttctgtatgg	atagaaatgc	atcaaaagcat	ttttgaacaa	360
agtcggttta	agaaaagtaa	ctttactttt	cgaggagaaag	aggtcgagct	tgctaaaagg	420
cttgttttgtt	ctccaaattc	acaaataagt	aatcgcgctt	atttctggct	tcagcacttt	480
gaggagtttat	tgatttatgt	tcgtataaaa	cttatcgacc	tcttttcgaga	ggcctatgac	540
ctgactccttg	gaatgcagca	agtatttttc	attcggggaaa	aggaagagct	gttgaaaact	600
ataagttatg	gggatgacct	gtatgagggt	aaattaatgg	cggtcgagct	ttactctatc	660
gaacagaaat	taaaagtgtc	tgaattcgata	agtacaaaat	ctcaagcttc	ggcatatatt	720
aaccgcatacc	gtgagtttgt	gcgtttcggtg	tggaggcagg	cttatatagt	ctgcatacat	780
aagcgaagta	atacaattct	atcattgtca	ttaccgagtg	acttgaaaga	tacgtcagcg	840
cgaagtgtct	gaaagcgagt	aaaacgtctt	atatcttcta	cagtttgttg	tagaaaataa	900
gatttaggtc	ttacagattt	ttaa				924

<210> 4788

<211> 1353

<212> DNA

<213> *Enterobacter cloacae*

<400> 4788

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atgacttatg	ctatcccgcg	ttctcgtcgt	aaaccacagg	aagtatctga	acaactttat	180
aaactcgttt	atgctcgaat	tgctgaagtg	ctcggtcgga	agttatatatt	cgaagaagata	240
ctgcgtttca	aagacgcttg	tgcaaaaagcc	tccgacccagg	ttccttgccc	gtttactggc	300
gcagggaat	cgaagtgttg	tttcgcagaa	aaagaccttt	ataccggatg	tgccgatccat	360
aatgaacttct	cggtaaatga	gttttcggac	ggaattgatg	ttctggcgaa	atatattgaa	420
tttaagtaaaa	cgcgactgtg	caaaaagatt	ctccagatt	ttttcgggat	ggatctgcac	480
gctccgttaa	ctgacgcaga	cattgaaat	gaacgacgt	ataaatcagc	agttcgtgac	540
acagaacttc	ttgaccgaga	ggagatggca	aagcgaatgc	gaaaacttga	gtgtatgtat	600
catctataccg	gtgaaatcaa	gcctataact	cctgttgctt	tgtaacctccg	taactgtggg	660
atctcccgct	tactgagtca	cttaccagag	gatttagctg	tttaataaccg	gatctaactat	720
tggtgataaag	ataagcagaa	atcgattatc	tatccgggaa	tgattgcaat	ctatcgtgac	780
accgcaggtc	ggcctctgac	ttcatataga	acatacgtag	acaaaaacgg	tgataagcca	840
cctgtagaaa	atccaaagct	gatgatgaag	cctcctgcg	atatgacagg	tggtcctaatt	900
cagttgtttg	accctcaact	tgattcaggt	agttgcacct	ggacactggg	agtggtcgaa	960
gggatcgaga	acgcgcttct	tgtgtgtaga	gcgaactcaa	caccatgctg	ggcagccagc	1020

tccgcatggt	gccttgaaaa	cggtactggt	cctgattttt	tactgectcc	gccggatgta	1080
aaatatataa	acttttatat	ctggggcgat	aaggatattg	ctaactcaca	aggcactcgt	1140
gccggtatcg	aagctgctca	gcgacttcaa	agccgcatgg	ttgagttttt	ggctaaaaga	1200
tatcccgcat	caaagctgac	aattgaagtc	ttcgaaccag	cacaagatat	tctgatggg	1260
aaaagggtta	tgcagtggaa	cgatgttctc	cagtttaacag	ggcaggatgg	attcccagatt	1320
cactggggctc	ctgaatgtct	taaccagctg	taa			1353

<210> 4789

<211> 345

<212> DNA

<213> Enterobacter cloacae

<400> 4789

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ttgggtgttc	aacataaaaa	aatacaggtt	aaaaacatta	cattttttaga	caatggggcag	120
ggcagtgtct	ctggtagtgc	ttttgatgct	gatgtttcac	tggagtttat	gtatgaatca	180
gcataaagcat	atagttcttg	cttcctgtgt	attccctttc	cagggtttga	agatgcaaat	240
ctggaggaaa	ttacgaaatt	tcaatttagat	gctttgaagc	aaagaaagaa	tcattctcgtt	300
ccattgttgt	cttcacacag	acgtgccaga	tccatcaaga	cgccc		345

<210> 4790

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 4790

gataaatgct	cagttcgcaa	atataaaactg	aatttaagtt	ctgtcagttg	ttgtttcaaa	60
gataaattag	atgattcgct	tatatattact	ggttcaaacac	cattttctaat	caaaaatagct	120
tttaaccaggt	cctgagctaa	cttcatacac	cctccagtcg	ttattgagcc	ctccctgatg	180
cagggttgccc	atcaggggaaa	atatgttaaat	caattagcaa	ccaatcagac	cgttgccatt	240
acattgtcaa	tgtatctgac	aagggtagg	cggtcgtctc	gtaaggcaaa	acggcggaag	300
tcatacaagt	tatacgcagg	aagataa				327

<210> 4791

<211> 564

<212> DNA

<213> Enterobacter cloacae

<400> 4791

agaagtagcg	attccaggct	ccgggaatgt	aagataggtt	actatatgaa	tatcaataaa	60
gatgacgaac	tccttgtgat	agtttaagtat	gaaggaagat	tttatttggtt	cgttgcggttc	120
aaggaaatgt	gggtctttaga	cagagtaaaa	tgggttagagg	atttttgtgaa	aagtggggtg	180
gaaataaaacc	tacagaatac	ccataaggaa	agatatgaca	taccagttgt	aaatgaagaa	240
aacgcgcaga	tattcattga	tgglttaatt	aacgatgttt	attcatacga	taaggatgac	300
attgtcgagg	agttttataa	aaggcttttcg	caaaaaacaa	tttgggtgaa	tatatatgaa	360
cttatgcocg	atttatttat	agactttgat	aataaaaagat	tattttcgga	atatgttgag	420
agtatgcatt	atcaagaata	tgttcctgat	ggttgccaag	gtgaacttgt	tgatttttgc	480
agtaatggat	cgttacctca	agatgaaatg	ttctggataa	aaaatgaaac	tgatcataga	540
agcgttttga	tcgctaaaag	ataa				564

<210> 4792

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 4792

gtggtatttg	atccattacc	agaggacgca	tttggggcaa	acgtcaaatat	caaaaatagat	60
aaggttttta	aattagatca	aaatgcacaa	cgtcgattgt	ttgttccatt	ttttattacg	120
gataaaaaat	agatccagat	cgcactctgc	acagagaaat	ttgatgttaag	cattaaacgta	180
accggcaaga	ttttattcgt	cttttatgag	gtttgtgaag	gggacagat	ttattataat	240
tttactcttg	tgccgtgaaa	agaagcaatc	actgctaagt	ttttattaga	cgacccttgg	300

ggagggaaaa aatacaatcc tctaaaagag ggtttttttt aa

342

<210> 4793

<211> 198

<212> DNA

<213> *Enterobacter cloacae*

<400> 4793

accgtacct	ctacagaacc	tttacccgtt	gaagactctg	ctgagaaggt	cacgcacaac	60
cgctctgacg	agctgaacgt	cattcgctgg	cactactgtt	atgacgggtg	acatcacctg	120
acggagggtca	tcagccaggt	gcgggaccgt	aacaggccgc	ggacgcaggt	cagcttccgt	180
taccctcata	cattgtga					198

<210> 4794

<211> 270

<212> DNA

<213> *Enterobacter cloacae*

<400> 4794

caatataact	ttgatcaagg	gaacgagttt	cacgacaacc	aaaaatcacg	cgaggcttta	60
gagcaaaaacc	aaaaagcctg	gcaagcgctt	cctgagccaa	agctcgaatg	ggaactcgcc	120
aactggatcg	ctgcctgcat	gtacagcgca	tgttttgatc	ttgcggatta	tgtctaggaa	180
aacaaatggg	gaaaaacgac	attacggaca	cgtggatcgg	atatagacac	tgccacctta	240
atcgatctcg	gcattggtctg	ttatgagtga				270

<210> 4795

<211> 309

<212> DNA

<213> *Enterobacter cloacae*

<400> 4795

aggataaaat	atatttttcg	caaaccattt	ttagacattg	caatgggtga	ttcaaacgcg	60
caatttgggt	ttgtgttaag	cgagacaaa	cgtttaccac	tcgttttgac	catcttcaac	120
gctcagggtg	aaaaactatt	ttggtctaca	tctccgaaa	gtgctatttt	ctattactta	180
acattaaacc	agtcaaaagg	agtggttggt	gtatgtaatt	ttacagtaat	acaaaaatgg	240
tggcataaatt	ggtttttatt	ttgggatatt	aagcgttaac	cgttgtctag	atcaggacct	300
tcgtactaa						309

<210> 4796

<211> 237

<212> DNA

<213> *Enterobacter cloacae*

<400> 4796

acgtgtttact	ataattccgg	agtaaaagcg	atgacagatg	aagagttacg	aaagaatctt	60
gttttttttaa	taaaaaata	tgttcoggaa	agtcacaaaa	aagcatttta	tgatgatata	120
tcaaaagtcta	ctgtgccagt	gaaaggtatt	ttagctgact	ttaataaaat	caaaaccaga	180
actgttgatg	aagttgatgg	agatttaata	cgggatattt	acttttattt	ttgttga	237

<210> 4797

<211> 498

<212> DNA

<213> *Enterobacter cloacae*

<400> 4797

cagatccagc	aggagcagct	aaaccaggag	aagaaaagcg	aggaagcgaa	ggcggaagag	60
acggatcgcc	cgagcagcat	cacgatctcc	acgcggaaca	gcggcgaggg	gaaggagaac	120
aaagagaagc	cggaaccggc	cagcggcaaa	gaaccggagc	acaccgagcg	gaacaaaagc	180
acgaacaaaa	cgaccaaaag	gcagggaagag	gggaaggagg	agaccacaag	cgccgggtac	240
aatcaaaaga	cggcaccggg	ggaacacagag	cgccgcggcg	agagagccga	acggcacgga	300
aaaaaccaac	gcgaagccgc	aagccggaca	ggaggagaaa	cggaaaaaac	aaagggaaga	360

gaaagacag gcgcacgacg gccagacca gaacggccac ggaagcgacc agcaaaaaa 420
 ccaaaaccg gcggcgagc acaaagcacc gagatcacac agattaaaaa cgccgagctg 480
 gcaggaaacg cgattccg 498

<210> 4798
 <211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 4798
 tcaccagaca gatgcgaaac ctggtcgagc gtattcagcg cgacccgtgg gtggtgcccg 60
 aagattcaga ctgccgaagt gctgcacgcc aaatggccag aactggctct aaggctttgc 120
 ccggtgaaac tagccgacag caacggcgta ttccgaaaaa acaaatgcga tagcacgac 180
 cccaaagggt ttcgtggata a 201

<210> 4799
 <211> 264
 <212> DNA
 <213> Enterobacter cloacae

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<400> 4799
 atttggccac ggacgtaccg ccggaatttc aacactcgga aggtttntac gtcattttcct 60
 ttgcccga aa aaagcccg caactgttcag gtgcgggctt tttctgttt ttccgtgtacg 120
 cgctaccccg catcgitaac tgggtgaatg atgatggtt tagtaaatgt ggtgatcgctg 180
 atgcgtttca tggatgtgt gtactctgtc attattatct gtctgtgctc tattctttta 240
 gggttaaagg atcgagcccc ttaa 264

<210> 4800
 <211> 690
 <212> DNA
 <213> Enterobacter cloacae

<400> 4800
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 cagatgttcg atatcgatat gtctgcgctg cgtgaattac gtgaagctgt gggagccaca 120
 cagcagcaaa tgctcatggc atacaaccgc gcgctgaaca gaacggcgaa gcatatgcac 180
 cgcgtttcg tccggatgat gatcgatcg cttgcagta aaaaagcgcaa agtagcgaaat 240
 aagcgatta agccattcgt gaaacgtcgt aatttcggga aagagagcac cgcgagctg 300
 agcagcgaga agctctgcta cggcctgaac gattttcgcg ttccagcatt gcgcgggtcg 360
 atgcggaaac agcgaaagca gaagcaaaaa cgtgaccggc agacgggtca gtttatgaaa 420
 acggaaaaaa gcgcgcgcg tgcgacattc attccaaaaga gcgcagggct gcactcgatg 480
 agctgcccag attcgtttgt cgtctaaacgt tacagcgtga aaagcatctg gattccggct 540
 gaggggtgcg gcgttgaaga ggcgcgcgta ccggttcacg aagcgctgga agacgctatc 600
 gacgattaca tttttgaaaa tatcgctct gtattatcgc gctattttga gcaggattta 660
 cggggcgcg tggcggggaa cgttcaatga 690

<210> 4801
 <211> 591
 <212> DNA
 <213> Enterobacter cloacae

<400> 4801
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 gtcaaaacgt ttggtgata tccggaatc ccggaaggat tcaaacgcc agccgtcttt 180
 tttgaaattg aaaactggga ccgagcagt gaagtgatc ctggctcagc gctgcagatt 240
 tcgctcaact gcagctctga tgcctctgc gaatttgcg cagacagta cgggcagaag 300

gccaggaacg	cggcgctgta	tatatcgagc	tggatagacg	gtcggggatt	tggccccg	360
actctgccag	ccacgttcgg	cggttcagaa	ccggcagact	ggatcaaaaa	cggtaaacgg	420
ctcgagatgc	actccgtctg	gtgcgtatca	ttttcgcagg	tagtcggcgt	cggcgttggg	480
cctttcgtta	ccccggctga	tggccccgctt	ctgaaagaag	tgtttgcg	ccttgcgcca	540
gatattgaa	aagagcacga	ggctgattat	gtccgggtct	tcccaagatg	a	591

<210> 4802

<211> 198

<212> DNA

<213> Enterobacter cloacae

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<400> 4802

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ttcaaaaagga	actgtctcgt	gaaacttcga	atgggtgtgc	ttctcctgac	tggcctgctg	180
ctcgcgggct	gtgactag					198

<210> 4803

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 4803

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tgccccctag	ctgacctgag	acggagcaag	cattccgagc	cacgctacgg	cggccagaat	120
gataatcgca	acaacgaatt	ctgtcaggat	gctgtttcgc	atcagggcaa	cgtctgcgatc	180
ataattccct	tccctgacca	taacttcaag	ccgggggacc	agggtgaacc	ggtttgctgc	240
agccagaaga	agcatcagaa	caaacagagc	cgtcttgcca	agcaataatc	ccccccagga	300
actgttgaat	aa					312

<210> 4804

<211> 372

<212> DNA

<213> Enterobacter cloacae

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<221> unsure

<222> (47)

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<400> 4804
gatgaggctc aggtgcgtaa gaggtgatg cctgtcccg tggtatannnn nnnnnnnnnn

nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	cacggataaa	120
gacgtggcgg	ggaaatcgt	gaatgcaaga	gggggaacaa	ggatgcgccn	nnnnnnnnnn	180
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	240
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	300
cgcattccct	gcgtttcgt	ctaccccggt	cagtcgcgtg	ttatggcgcc	cgtctctatt	360
gccacgcctg	ac					372

<210> 4805

<211> 257

<212> DNA

<213> Enterobacter cloacae

<400> 4805

acccgcttcg	gattaaagt	gcggtctttt	ccatgcgggg	agaaaaacgg	gttgatgaaa	60
aaattggggg	attatgtgga	atatcattcg	caggaaattt	tgctcgccaa	cgagcaggat	120
ctgctggaa	cgctcgcaa	cggcttgagc	gaagcgatgc	tcgacogtct	ggcgcgtgacc	180
cggcgcgctt	tgaaggat	tgcgcagcac	gtccgtcagg	tgtgcaacct	gcgcgacccc	240
gtagggcagg	tgattga					257

<210> 4806

<211> 378

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (295)

<400> 4806

gaggacgtgg	ggtggcgtgt	gactcgagct	acaaaaaag	atttatcgtg	gtttaacctc	60
agtaattacg	attttattaa	taatttaact	ctctctgaat	tcacgtgtga	gcttgagtgg	120
cggatcttcc	tttatcgtaa	tataaatgag	gatgatattt	tttttgatga	agaatacgaa	180
attaaatatt	agcgtatatt	tggaggggat	ctctcatctg	atattccaaa	tgaagaagaa	240
aaagagattg	atgagtttgt	ccgtaaaagta	aacagcgaga	ctccgtcttt	gctanatattg	300
tacggtaact	tacctcaact	accatcagat	cctagggttaa	gccccattag	ttttactgaa	360
ctttctaagt	atggttaa					378

<210> 4807

<211> 183

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (149)

<400> 4807

cogttaacga	tacgggtcag	catatccgcg	atcggatctt	gcattgctat	ctgtctttac	60
tcccggtgatt	caattggtaa	ttaccagcta	gcctttttca	agcctgggtac	ttcacccggc	120
atggcgcgctt	cacgcagttt	gatacggtn	tcaccaggcg	gcggaaaagga	caagcgtaag	180
ggg						183

<210> 4808

<211> 321

<212> DNA

<213> Enterobacter cloacae

<400> 4808

aactcgttga	agcagggtcga	atattccaga	tacagcattt	cgccttctcc	acaccggagc	60
tgccagggca	agaaaagatg	gctaagtcag	cagctgggtga	ccagcatgtg	tttaagtgtc	120
aaatgccgca	aggccaataa	caccgcggcc	gcagttgtac	agacaggcta	taagtgalctc	180

ctttgctctgc	tcaatacggg	tcttaacttg	agtttaaaac	tggccgcaat	ttttagggtat	240
ggccatctgg	ttttgaattc	attgatagct	acttcataca	atgtagaat	acactgcggg	300
tattataatt	actattatta	g				321

<210> 4809
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 4809	
ctggcgcttg	aagtgtatac
ctcgctcagg	cccgtaagtg
gatttgcgcc	atgatgactc
gattaa	

60
120
180
186

<210> 4810
 <211> 747
 <212> DNA
 <213> Enterobacter cloacae

<400> 4810	
cgaaaaacaa	cttcattaaa
aatggtaaa	aggttattat
aaagataaag	cgctgaaaaa
ttaataaaaa	gcattgtctg
caatttgacg	attattttta
gccctcgatg	atttcagcca
ggggagcccg	tcgcgcgccac
cagcaagccg	gagagatgaa
ctggcgcttt	tcggaccggt
ctgattaaag	atgatgacgg
ccgcgcgtgt	tggcgctcag
ccatgtctgt	ttgacttcaa
ctctccagc	gaagcggtgag

60
120
180
240
300
360
420
480
540
600
660
720
747

<210> 4811
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 4811	
cttgatcaat	caggatggta
gcactgcagc	tccggggtcg
aatgaagaag	tgatgcagc
aacggtttct	ggtggccttg

60
120
180
240

<210> 4812
 <211> 243
 <212> DNA
 <213> Enterobacter cloacae

<400> 4812	
cttagccact	ctttcttcgc
gaatattcga	cctgcctcaa
tgggggttta	cccttaacgt
cactcgcagc	acccctattt
tga	

60
120
180
240
243

<210> 4813
 <211> 663
 <212> DNA

<213> Enterobacter cloacae

<400> 4813

acagaaataa	cattctcgtc	acctaacata	ctcgctacaa	acaaaatggt	ggtgttaagt	60
attgtactaa	agagcttttt	attcttcgtt	ggcgggcg	ccgcttgccg	acttattgta	120
ctgtgtcttt	gggttgata	gcggtttgtc	ggccatgata	ttccggaatt	atcactgacc	180
gaattatgc	agaaaacggt	attagcgagt	attgtctttc	tccattttcg	ctctggcgaaa	240
atgtacagtt	ccatgcgtta	ctgtaatat	ctgggtggcg	gatttttcc	gacaatgcta	300
attcgtgagc	tggacgcgct	ttttgatctc	atttctcatg	ggagttgggt	gtggttcgcg	360
ctgattaccg	ctgtgctggc	gttaattcgc	cccggttatgc	attttcgtgc	tacctggaaa	420
cagctggcaa	aataatccca	atccccctgg	tacgggtattc	tgttgagcgg	cctgcgtgct	480
gtactggtct	tctcccgcct	ctttggaatg	caggtgtgct	ggcacgccat	cctggagcat	540
ggctatatgc	gtgtcgtgaa	aaacgcgcgt	gaggaaaggt	cggaaatcgt	cgttttatgt	600
ctgtgcctgg	ccgcatccct	tgggttattac	gttacctttc	ccgctcaacg	acgacaaaaa	660
taa						663

<210> 4814

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 4814

aatcagcgct	tatccttaga	ctatcaacaa	aaggaggctg	gaatgtctga	tttcgacact	60
gataaaaatg	cacaatacgc	tggcgataaa	gccaaaaaca	aacttgatga	attatccggc	120
tctgcgcagc	agcagtttgg	tgaattcggt	gactccccta	aacaccaggt	gaaaggtgca	180
gcgaaaaact	atgctgtctt	caactacgag	gctgacaggt	ccgcgctcag	gtgtgcgggg	240
cagggggga						249

<210> 4815

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 4815

atctgcgcgc	acagacttcg	aagggtcgaa	tccttccccc	accaccactt	tctggcagcg	60
tcaacgcgcg	cggagctggt	tggaaaaatt	gaccagctcg	aacagaaaag	agagaaatct	120
ctttttttgt	tacagaaaag	actgggttagc	cgaattttcag	gatcgaggca	tctataatg	180
gctattacct	cagccttcca	agctgatgat	gcgggttcga	ttccgcgtgc	cgcgtccaat	240
acgtgctga						249

<210> 4816

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 4816

gtcccgcaac	gagcgcaacc	cttatccctt	gttgccacgc	gtcaggccgg	gaactcaaa	60
gagactgcca	gtgataaact	ggaggaaggt	ggggatgacg	tcaagtcatc	atggccctta	120
cgaatagggc	tacacacgtg	ctacaatggc	gcatacaaa	agaagcgacc	tccgcagagc	180
aagcggacct	cataa					195

<210> 4817

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 4817

gtcgcgtgacc	cattatacaa	aaggtagcga	gtcacaccac	gaaggtgctc	ccaactgctg	60
tacgtacacg	gtttcaggtt	ctttttcact	ccccgcgcg	gggttctttt	cgcctttccc	120
tcacggtact	ggttcactat	cggtcagtcg	ggagtattta	cctttggagg	atgggtcccc	180
catattcaga	caggatacca	cgtgtcccg	cctactcttc	gagttcacag	catgtgcatt	240

ttcgtgtacg	ggactatcac	cctgtaccgt	cggactttcc	agaccgttcc	actaacacac	300
aaagtgtattc	agactccggg	ctgtccccc	ttcgtccgcc	gctaactggg	gaatctcggt	360
tga						363

<210> 4818
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 4818	
gcagcgagggt	acctccagc cccgtgggct gaagaccccc tgaaccagcc ttacaccaca 60
gatattattgg	gtacagcgac cgcgccagat cccgagacgc tgaactgtga tgtttattat 120
tataaaacga	acgcgcgtgc cgcacccgtg ggcgaggtaa gctccaaact aactgtatacc 180
atttcctacc	tgtaa 195

<210> 4819
 <211> 432
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
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<400> 4819	
tgcggtactg	gaaaaagcgc tcaaacttct ggagtcataa tggaaagactt agaaaccaacg 60
atcatgggaac	tgctgggtcaa cgcaggcgcg gcgcgcagcg cggctcagac gccgaagcag 120
aaggcgcgaa	aagcggaaca agacgaagcc gagaaagcga aggaagagtc gcgagaaaaa 180
gagaaaaaag	ttcctgacaa acgatccaga cgcagcaaat cggtcgaagc gaaggagacg 240
gaaaacacgc	ggaaaaaccag atcaccgatc attctcagga ccaccagaag aacgcgaagg 300
aaaaaacagg	tcaggcgggc gacaagaaag agcaaaatcg acgcatcccg caggaaaaact 360
gaaaatgcag	atataaaaaa acccgccgag gcgggttttt acatttacgc gcatacaacg 420
aaaagatcct	aa 432

<210> 4820
 <211> 225
 <212> DNA
 <213> Enterobacter cloacae

<400> 4820	
gagagtgaac	tggaaaaaga gcagctcggt gagatcgcca atacggagat gccgttcggt 60
aaatataagg	gtcgcaggct gatgtattta ccggaagagt atctgtgtgt gtttgccctg 120
aaggatgagt	tccccgccgg gcgtctgggc gagctgatgg ctatccacgtt actgatcaaa 180
acaggggggc	tgaccacgct ggttcagccc ctgaaacgct cttaa 225

<210> 4821
 <211> 432
 <212> DNA
 <213> Enterobacter cloacae

<400> 4821	
cacatcccca	ttgcagccag accgcttggt ttactcaagc tcaagccttc ttgtccgata 60
cctctatatt	atggcgaaaa ggaatctaat atgacaactc ttaagccctg ttctctgtcg 120
gcgatggaaa	tcggcagcgt agataaacgc tccggcggaa acgacattgc ttctcaaatc 180
accgctctga	ccaaacagat aacgaaagtc actcagcagc tcaaaagaagtg ggccatgggt 240
gatgccacag	cagaagaaaa gcaaaagcag caagaattac tcgaattcca gctggctatg 300
ttgcaggcac	agctggcgca attgcagcgt cagcaggcgg aagaggcgat gccaaagcag 360
gaaaaagggt	agcgagtcgc ggaaggcacc aataagccct ccgcagaaac tcagattaat 420
atctaactct	ga 432

<210> 4822

<211> 210
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (106)

<400> 4822
 tggaaaatct ctcccagcca tggaaattgg cgcggcgagc tgatcagaaa taattattac 60
 ccaacggcag cgcgtcaggg gggggaatat ttggtcaca ccctntcca caccagcgat 120
 ttttatctgc atccgcacga gaaaaaagcg caggtggcaa aattcatcaa ccgatttgc 180
 tttoaccgac gcctttggcg cgcggcgtga 210

<210> 4823
 <211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 4823
 tatatgattg ttccatctgg tatatcatta cttaccgcta tcatgatgat attaacggcg 60
 ataactacat tactggcgtg tttaaatacg gacgcactgt caagtgaaca cgtttcggcc 120
 attgctgctg ttgagaaaat aagcagacaa aaaaatgtag caacgctaatt ccattcctgaa 180
 attttcatct cgcctcttta a 201

<210> 4824
 <211> 315
 <212> DNA
 <213> Enterobacter cloacae

<400> 4824
 cgtcccggtt tgtcgaaaa accaggcacc gatattcagc cgcgcgttca ggcggcgcta 60
 gaggttggtt tattccccgc tgcatttttc gctgcgataa ccattcacgt tataccccag 120
 catcagcgcg gggatccccg catcccagag caccgggttt acgctgcgcg gtgcgacatg 180
 ctgcaacatg gcctggggga tactgacatc aaggcgctgt ctgcccccggt taaatttcag 240
 cggcttttct ggcaggagcg ccttgagatc gcaccactgc cgcgcattag tggcgacacg 300
 cctgcttttt tttaa 315

<210> 4825
 <211> 438
 <212> DNA
 <213> Enterobacter cloacae

<400> 4825
 cagcggttac attcctctct cggcaaggtt tattcagacg gaagacagcg tgacggcggg 60
 catggcggaac ggcaagctag tttatacaat aagttattat taaagagtga tattttgata 120
 gcggtagcat atgtgatgag atttttattc agttctgtct tggggctcct cgtattatta 180
 aatacagacg tatgttttgc aacctgctct gcaacctatc tttataaccg ggtcccaag 240
 gtgccccttt taaccaatag tatttcaactg gaaaaggatg cacctgttgg aaccgtgctg 300
 tacggcgaga ccattacgac gtcagggaact tatgatatga agtgtgacag taacacggac 360
 gttacgtttt ttgacatttt tgccgatcct gttaggtcttc attacgaagt tgccaagatc 420
 gccgcatata tcccccca 438

<210> 4826
 <211> 249
 <212> DNA
 <213> Enterobacter cloacae

<400> 4826
 atggcattag gtgcaatgc acacagttca gctttgttaa gagcgagaat ggtccaagac 60
 atctatgaca ttgggcatca gaaggactat gtgcttgata tgagatcaaa aaaaatcag 120

aagcatcaca actccaatgg cartcaaaga aatgcctttg tttgttagt acaccaaaaca 180
 acccaaaaat catgcagtta tatcaaagac tcattcgcaa aaggactcag ccagaaagca 240
 tttgcttaa 249

<210> 4827
 <211> 450
 <212> DNA
 <213> Enterobacter cloacae

<400> 4827
 acgttaaaaa aagggggttt atgcgaacgg aaggatcgga ataaaaaagt attattcatt 60
 cgcgttttac tgaactcaaa tctacacgga gtaattatgg aactttcttt aaattatggc 120
 cttagtgaag agaaatctaa cacgggtgca ctttttaaaa caaaaagcgc aaaagtgtatt 180
 ttgtttgttc tgcagccgt gcttttttgc ggtctggcat atgcgggttc agatgatggg 240
 gcactgggag atatttggtc atacatgagt gaaagtatga ctggagctcc gggcaaaatt 300
 ctggcagccg cgaatgtgat ctcaagcgta tttttctctg tccttaagcc taacccgggc 360
 ctggcactgg tttcattatt catgatgctg gtaattggca acggcgagaa aattatcagc 420
 acctttatgg atgctggcgt accgtgttaa 450

<210> 4828
 <211> 363
 <212> DNA
 <213> Enterobacter cloacae

<400> 4828
 ttctgtaaac aatgcgggaa cttgaatcta tcggatatct cgattatcaa gaagttaaga 60
 aaggtcgcga catacaattt cagatcttca aaagaagccc taagctggcc cttgccaaac 120
 aaggttgaaa gctatctggt atgcactggt tataacctgc tgaataataa gttatttatc 180
 agtgcattgc ttagtgtctc tttaactact ggtcttacct ctgcgtttaa tgtgcaaaaa 240
 agtaactttt caaacgaact cctgactatt catctgtatg cctttctgac tcaagcgtac 300
 atgctagccc attcattaaa tgcgctgag caagatggtt tcgtgcgcac tctattcacg 360
 tga 363

<210> 4829
 <211> 357
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (202)

<400> 4829
 tcatgcatga gggggttcat cccctctctt ggatttttaa tgagtaagca gaacgaagtt 60
 cctcagcata cctatagatt ccttttcagg atcaacatgc ctctactgat ttgtttttgg 120
 gatgcacaaa aatttaggctt tgcattcatt ctggttgcat ttgggaatat cttcgaatgc 180
 ttccgggtttt ctgtttgtag ancggtttgt tattggattg cgtataacaa agcagctgag 240
 tcaggaaataa gaggattgct aaaaacacaa ctctggtggc tcggtttttt gccaaagtaa 300
 gcagttttta ttagcgttta ttcaacgat ccaattatca gagattttga tctttga 357

<210> 4830
 <211> 537
 <212> DNA
 <213> Enterobacter cloacae

<400> 4830
 gtttaccttt tagatgtatc agccctatit ggcaaaattg aggttcatgt atcatgtagt 60
 aaacagaggg aagatatgaa caacagcaaa catacagta ttgaagtga tactaatcta 120
 ttgtaaatgt aaaaaggatt taatccccga gaggcggttaa ctggagattt tgtttacgaa 180
 caagaacctg tcaaatcgat gattgtgtca atcaacaag cctttaagga aggaaggcag 240
 gttgatatga tcaaggtcgt aaaaagaaaa ggtaaatatt tagttcgtca aggtcatact 300

cgttttcatg	gcttaaaaatt	agcaattttct	gaaggtgcta	atattccaaa	attatctggt	360
atcttaatcg	attataaaaa	cgaatttgaa	gaataacctg	agaacctcga	tggtaacaga	420
agcaatgggc	taaatccggt	tgggcaagct	catgcattag	ctcatgctgt	tagtctcggt	480
tattcggttg	aagaactag	gaaggtgcga	ataagtgggg	aaattcttct	cggtcga	537

<210> 4831

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4831

cttaactcgt	cggtgataag	attttcattt	ggcaaacgtg	ttataacata	ttcttgcaaa	60
tgctttttac	gcattttac	aaatgcata	agcattccag	taaaatgcct	ccttatccat	120
tcaaatgctt	ttcgcatgca	tcggaatgcc	ggatcctttc	ataaagttac	tataatcaat	180
gagttaaaga	tgccgtga					198

<210> 4832

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 4832

catgtaagt	aaagccctgc	gaatgtgaag	agatttgccc	ttaacgctat	gagaaattta	60
agagaaatcg	caggggctaa	aaaactcaag	atattaaaa	tcaagaggt	attaatgagt	120
aattatctga	aaatccggtt	ttgtaccttt	tcgttgcttg	ttagttttaa	ggaacaaggt	180
aaagtgtgtg	ctacggcgag	gatgccaca	gaataa			216

<210> 4833

<211> 942

<212> DNA

<213> Enterobacter cloacae

<400> 4833

ataagaggga	gttatatggt	ttacgaaaa	gaattgtggc	acagttttct	tctgcgttca	60
cagataatgt	ataactttac	caattgcagg	aacataaat	caaagcatgg	cgactaaagg	120
tacgatgcct	ttcctcggtt	cgaactgatt	gatatgtaca	aattgcatag	cttgacaggt	180
atatatgaca	ttcttgccac	tagaaatggt	tataacttaa	cttccaatat	agtgctgtta	240
tcttctgggt	tttacgggta	ttttaacgct	attgaagatg	cctgtcggaa	aaattttcac	300
ataactaatt	catatccatt	ggtaaacatc	tcaaacattc	gttactgtca	caaattgtatt	360
gttgaagata	tacaactctaa	agccattggt	tatctgcgtc	atagatgggt	gtttgaaatct	420
aaatgtgcag	ttcatagtac	cagttttatat	gaggtttggt	ttgataacta	tttgaatgca	480
gtgaaggagc	taagtgaact	aattataagt	ggaataaatc	ctcatggtta	ttgttccctt	540
gtgggtgacg	tttcaaaccc	tttcaaaaa	ccagtgata	tattaccatg	tgcacgtaat	600
aaaaatttaa	aatggatttc	ggacaataaa	aatatgtcga	tttactttct	ctttgatctc	660
ttcaaatgta	agtcgcattc	aagtttatct	aaggttatcg	aagtcagat	aatgcgatgt	720
agatatattt	ctgcggtgtt	caagatgtta	agtgaagtta	atttttgtaa	tttcaactca	780
tttatctctg	atatttttga	ggacgtaagc	tatgcctcta	tcggacttga	tgattattct	840
gttaattgtc	attttctcag	gctaagggct	gcagattgta	aaattttgca	gttgaatggt	900
aaatattttt	gctoaacttta	caatgtaaaa	cttcttcgct	aa		942

<210> 4834

<211> 1671

<212> DNA

<213> Enterobacter cloacae

<400> 4834

atgaatgctg	acaagaatga	catgaactgt	ttcagccctaa	gagaagggga	cgcccgcttt	60
gaaatagcct	gtgaatttga	tgacctgcc	gattttatca	tgatcgacga	cagggtgcag	120
accacgctcg	cctcagaaca	tctgctgaat	gaggacggca	attttgaat	cgctcaaacg	180
tttaagacaa	cgacctcagg	aaaaccggag	cagacctgca	tcgctgcac	ccaccggat	240
gaggagcccc	tgagaaattt	actgggcatg	aaaattttct	agctcaaggc	ggtgggaaaa	300

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gaagttgaaa aaaaatgtggc ggataaacgc actgcatcgt tatggcgctca ggccatcagg 360
gaagccgcag cccoctatac ctgttcggaa attatgtcgg atgtcgataa agagttcggga 420
accgacacaa aatcattatg gggttaagat ctgcgatttg tgccccagta tgcgatttttc 480
aaaagccgaca gggaaagcag cgacggggat tccgaagcta aaaacccctt acagcagggcc 540
gtaaaagacg ctacagctgc gctgcaggac aaaaattacag cgctggaaaa tgagattcag 600
gacagcgtcc tggatgtcgc acagagaacg ctggataaat tacgtgaaat ggcccccgaa 660
ctcgccagtg aactgactcc acgatttaag gagaaaccca agtgagactt caatttcacc 720
ctggacgggg aaaaatggcat ccccatcaat aagcggcgca cggggataag gaggcttatc 780
ctgttgaaat tttttcgggc tgaggctgaa aagaatgtcg cggggagcgc cagaaattgtg 840
atttatgcc a tagaggagcc tgaaacgtca cagcatccga actatcagat gatgctgatg 900
aaagcgttac tggcactggc aggcacggcg caccgtcaga ttatcgtcac caccatgtc 960
ccggcgctgg ccggaat aat cctgtcgaa ggcgtaagtt atgttaccgg aaatgaggcg 1020
gggtgaacccg tagtaaaaa cccggatgac gcaagtgtga aggaagccac tgaaagcctg 1080
gggggtgctgc cagagaccgg tatggaaaagg gcgcagggga ttgttctggt agaggggaaa 1140
tcggatgtta ctttctcag gcatcgcgcc agtctcataa aacagtccag tgcgctgcca 1200
gctctctcgg aggaagtgaa aatagtgcca gtctcctatg gaggggtggt tagcgtcaaa 1260
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ccgatatctt ctaggaaat tactgtgta gccgtcacgt tacggcacac ctgtgacgct 1500
aaaaaaaata tcggccgggc tgtgggaatg aaacccgata atgtactaga taattctcgg 1560
cctcagatga catcagaaa aatcatctca agatcaacct atcatgacgg aacgcaggag 1620
agaagcgagc tggttgagat cctgagcgac attgtatcca tgacgagata a 1671

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<210> 4835
 <211> 549
 <212> DNA
 <213> *Enterobacter cloacae*

```

<400> 4835
cagattattg atcgcccttc tgaacatttg tggatctccc tcaaccaggc agggcatccc 60
gttaaaattg agcgtgatat tgcgttcttc ggcccaggct tcgaaaaact cgaagacttt 120
catgactctc gctctgaggt caaacatgac cctgtcaagt atcagctgat tattatctgc 180
ctgtgccagg acacagatat cgctgacctt ttgtgtcact cgtttatact cttcaagact 240
ggaatagagg acatccctcaa gtccctctcg tgttcgatcc tgactcagtg cgatatcagt 300
ctgcgtcacc agattggtga tggcgcttct gatctcatgc cgatatcgg cagagaaatt 360
ggcctggcgg gtaaaagacat cctcaatctt tccaatcata tgattgaacg agataaccag 420
ttgctccagc tcaatgggaa cgcgtgtcgc ttccagtcgc gcatacaagt tctcggaggt 480
gatgtcttaa atggcatagt tgacattacc aaggggcagg tgccccttga cggacagcga 540
ttcgaatga
549

```

<210> 4836
 <211> 183
 <212> DNA
 <213> *Enterobacter cloacae*

```

<400> 4836
acgcagaaga aactgtgccc acaattcatt ttctgaaacc atataactcc ctctatttta 60
attagtcca tttttctgag aagtatcatt gtcatgtgta gtttatctct gtatttcaaa 120
agccagccat gccctcccag taagcatctt agactgttaa gtgacatcga gtactgcccc 180
tga
183

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<210> 4837
 <211> 336
 <212> DNA
 <213> *Enterobacter cloacae*

```

<400> 4837
ttccccgcag tgatgttaac tcaactatgga gatccggaat gggtgcgtcc tgtactggac 60
aaggtaacca catcaaccgc agtaccgcgc gcggagctc agactccggc agcagatttct 120
tcaccaccaa attctctct tcaactcaac aaactttttc tacogagctg atcaacgggtg 180

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cgcgtagccg	ttgtatatcg	tcacccggta	atgcaagcaa	tggcttacaa	ggaagccaac	240
ccctcgatgt	tcgtgcgcgt	aactcgccgc	atgctggcgc	gtgtgatgaa	taccaacaac	300
tcaagggtgct	atccatggga	agacagaaag	cagtga			336

<210> 4838
 <211> 228
 <212> DNA
 <213> Enterobacter cloacae

<400> 4838						
gttaacatca	ctgcggggaa	ctaccgctgt	cttctcttaa	gtacatcagg	aattatcata	60
aatgcaacat	ttattttacc	tgaatgcaac	ttttcggact	gccccacat	ggaaaatcag	120
tccttatatg	aaatattaca	gaaatataac	aataagatag	cttggaaaaa	aaataatgtc	180
cccgcgaact	gtcgcgggga	cgattatcag	gcttctatga	gacctgga		228

<210> 4839
 <211> 786
 <212> DNA
 <213> Enterobacter cloacae

<400> 4839						
gtagtatat	tgcgacaatt	ttgtcccgct	gtacacagat	ttttcgcaat	aaggcaaaagc	60
attatgcгаа	ggaaactatc	tattaaacct	cagctattaa	taaaaaaat	tgaactattc	120
gcagggaaca	tagataagaa	taaatcttagc	atttctccat	tcaaaaggttc	tgacctaaaa	180
atctttgagc	atcccataat	aaacacaggt	ctcggtcag	ctctcaatat	caatataaaa	240
tgaggattacc	catcacgaact	taaaatgagg	cagcttaaat	aatgttataa	atccatcaac	300
aaagaagcta	aacttgaaca	tgaataaat	gataaattag	gtgtaagatg	cttagagata	360
aacactggcg	aaatagtatt	atactctttg	actaatacag	atctgattga	ttttatggca	420
ccgatttaatt	ttgaaaaaaa	agaatacaaa	accagagccc	ccctctctat	ttcaatatt	480
atgattaatg	atgctatgac	attattacac	attgaaaaata	aattaaacaa	agccggtgaa	540
ggctcatcat	tgaacatcat	ctatactgat	gtagaaggta	aaaaatactc	cttgcaatat	600
aaaagtattt	ttatagttaa	agaaattacc	gcattattat	atacaaaactc	catatctgga	660
atattgttct	tgcgaaggac	aaaaatgcc	ctcgctaaca	gagtcacatc	tttatataaa	720
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agtttaa						786

<210> 4840
 <211> 666
 <212> DNA
 <213> Enterobacter cloacae

<400> 4840						
aggatgacta	ctttgaaaa	caataactta	tatggcaag	ccctccacct	caaccaagtg	60
atcgatggca	agactggggt	tcgcctaagt	gatctttctc	actattcaag	attagaaaa	120
gaaaaaatga	gggatgatga	gatgtctaaa	gtctttatag	ccaaaagaga	agaaataata	180
atggagggtta	atggcattag	gataaacact	cttgatttaa	ccaacgatcc	aataattaga	240
attacacata	ggcattgtta	ctgtttatgt	ttaagtagca	agggggatga	tgattatctt	300
tattcaaaact	ttaacggcga	tacttgtatt	gcttttgatg	ttgataaatt	agaagaacgg	360
ctttctattg	catctcaaaa	atttcagggt	tcgtttgttg	ttggggatga	tatcatttac	420
tacaatcaaa	caagcttgca	cggtttgggt	caaacggcag	aaaaacttgt	cttctataag	480
cccgatttct	ttccacatga	acatgaatat	agaattgcac	ggtttctacc	tcttgataaa	540
gatgggtttcc	gtgcggggtga	taaaaaatatt	ctttttacat	taaaaaatga	atcgatcacat	600
ctttttttct	ttcataaaga	gcgatcatct	attaccgatt	gcataataaa	tgtatttcagg	660
aaatag						666

<210> 4841
 <211> 318
 <212> DNA
 <213> Enterobacter cloacae

<220>

<221> unsure

<222> (278)

<400> 4841

cgagtggaaa	gaccgatgat	ccgctgcacg	tttcatctca	acaatagcca	gctttcaacg	60
ctgagctgcc	ccgggtgttg	gttttttccc	gcctactcag	gaaacgcggg	tgagaaccgc	120
aacaatccgg	acaagatagc	ggtagcagga	ataggaccac	tgccaccogg	caagtattat	180
attgtgatgc	gtcccgggaag	tagtctgctc	catttcacca	aaagctttac	atcatcaatt	240
ttatccggct	caaatcattt	caagtcgttc	ggatcgtntt	tcaccacgag	gcctagaacg	300
accataagtc	ccccatcc					318

<210> 4842

<211> 240

<212> DNA

<213> Enterobacter cloacae

<400> 4842

gagagcactt	cattgattca	gaactactat	ccagatattg	cagatgaaat	caggaggata	60
gcagataaata	ttccccggcg	ttctcgggca	gcattacgtg	aaaagttaaa	ggatgcaaat	120
gccaaaaaaa	aagttttaca	ggatgagatc	caacaaactc	agcttcgaat	atcaaaacag	180
gcaaccatca	atgaaatgct	gaattacaat	ctaaaaaata	aaccttctcg	aaataaataa	240

<210> 4843

<211> 1188

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (140)

<400> 4843

agccaattgg	cgcatttttt	ggccaagacg	ggttgcccaa	gggaaatttt	cttccctcat	60
ctctgtctatc	aggggaccaat	tatttcgaac	aaaaatttgg	acaagtatga	aaaatgcact	120
cattctttata	aaaagtctcg	tataccgaac	ttggtggccg	acgaaaatga	acatgacatg	180
tcgtccggct	tgatagagct	gaagacttct	agtgaggatg	agatgtcaac	agaacatgtc	240
gaccataaaa	ctatagcgcg	atttgcggaa	gataaggtaa	atcttccaaa	agtaaaaggct	300
gatgaattca	gggaacaggc	caagcgatta	cagacacaaac	tggaagggta	tctttctgat	360
catccagact	tttcattaaa	gcgaatgatt	ccatcaggta	gtcttgctaa	aggaacttgt	420
cttgcgtcgt	taaacgatat	cgatgtggct	gtgtatatca	gtggatctga	tgacccacag	480
gatttacgtg	agttacttga	ctatcttgct	gatagattgc	gtaaaagcatt	tcccaacttt	540
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ttagatgtgc	atatgttccc	tgtattgtat	tcggggttac	ctgactggcg	aggtcatttg	660
ataagccagg	aagatggctc	actccttgaa	accagcattc	ctctgcacct	tgatttccatc	720
aaggcccgta	agcgtgctgc	cccgaaagcat	tttgctcagg	ttgttcgttt	agctaaaatat	780
tgggctcgtt	tgatgaagca	agagcgacgg	aatttctcgt	ttaaattctt	catgattgaa	840
ttgattcttg	caaaaattact	tgataatggc	gtggattttt	cgaattatcc	ggaagcttta	900
cagacatttt	ttacottatc	ggtgagcact	gaattacgtg	aacgtattgt	cttcggaggat	960
aattatcctg	cgctcaaaaat	aggcaagtgt	tcagacttag	tgcaaaattat	cgatccogtt	1020
aatcctgtta	ataatgttgc	tgttttatat	acgcagtcct	atgtgggaacg	cattattgac	1080
gctgcaatg	atcgcggtga	cgctatcgat	gctgcattct	atgcaccaac	caagcaatta	1140
accataacct	attggcagaa	agttttcgtg	tcttcattcc	aggggtga		1188

<210> 4844

<211> 567

<212> DNA

<213> Enterobacter cloacae

<400> 4844

cctattggca	gaaagttttc	ggtttctcat	tccagggggt	aaatcattat	gtttctttat	60
agttatacgg	tagcagagac	acaaactttc	agcgtaaccc	acgtctgtca	catggccgct	120

aaagtgtgcaa	ctgacttgcg	gcggatgcag	cgtttttatg	gttaccocag	tgatgccgac	180
attgaagcat	acgaagaaga	attggttgtg	attcttaagg	ctggatattt	gggtgaggtc	240
tcttatgttt	ttcagaaaaa	taataacttg	atcgagccga	cccttcgata	taaccgagcc	300
gacttgcttg	gttcaggaaac	agatgacgat	cccgaaaaaa	tccgccaagg	aaaagatgta	360
tcgggtgcac	ccctctacag	tttlatgact	tatagctcga	aatatctgaa	tgctactcaa	420
tcggaaaaag	atactgcttt	gaaagatcta	ccattcaaac	gggtaggtgc	ccagttctcca	480
gggattaatg	gctacctcga	aaatgataag	acttactcgg	ccggtgggtc	ctccctcaet	540
cgcactagcg	taagggaatt	tgtatga				567

<210> 4845

<211> 597

<212> DNA

<213> Enterobacter cloacae

<400> 4845

atcaatgaag	tgctctctta	ttctctcgca	agtggtagtt	ctaaccggata	tagcagcgcc	60
gggtggagcca	gctccagtag	caccagacca	cgttgggtcac	ggcgccggtac	atctgtgatt	120
tataccctcg	cggaagtgcg	cactcacacg	ccagcccggt	aaaacgttga	gaggcgggcc	180
tctgtccctg	atttaccgaga	tgtttttctg	tgccatgcct	gggacgatcg	caaggacgca	240
gccaaagagc	ttcatgacca	gcttgagatg	aaagggtgct	cagttctggt	tagcgaaaaa	300
gatgtttttac	ttggtgcaac	attgctcgcg	gaaatcgatg	aaggattggc	aaaatcaegc	360
gtagggattg	tcttggtgac	ccctgcgccta	ctaaaaacggc	tccgaggaga	agggattgag	420
gataaagagc	tatcgccctc	ctgggcacga	gaccttcttg	tccctatcgt	tcataacaca	480
acatatgaag	atcttcgcga	agtcagtcgc	ttacttggtt	cgcgcagcgg	tttgagcaca	540
gctgaagatt	caatggccaa	tattgcccgc	aaactagcgg	agctggtaac	aatctag	597

<210> 4846

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 4846

aaattttatta	agatttttga	tatcgagatt	ttgacgcaaa	gtaacttttc	cggttttttt	60
gaaaagcattt	tcgcagacag	ttgtgttttg	cttcatttgg	ttctcagcaa	cagcaatagg	120
gatttggcct	acaaccttcc	tgccattctg	aagccctggca	actatgtgaa	acatagggac	180
ctgaccacaag	agatcctttg	gaatactctc	ttctaa			216

<210> 4847

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 4847

gaaatagcag	ctgctgtatc	ggggtttgaa	aggccatcaa	gcgaaatgta	tagcaccccg	60
ccagtgctga	acatcccttc	gcttgtttaca	atttctcttg	atgatactga	gttcgggtta	120
ggagataaaa	gctcatttaa	aggtttttca	atgagcatat	cgaaaacagg	cataatacct	180
gcggtcattt	tagccaatg	ctctgggtcg	gacattgatg	aa		222

<210> 4848

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 4848

atttctaaag	aagttgcatt	gatggatgaa	aaaattgtcc	tgacgcgcca	gcaaaatttta	60
agctctgcac	taaaagtcag	caaattgtcg	tcgctcgtaa	aaaggcgctt	tcaatctttg	120
ggttttaaag	acgcagattc	tcaagaaatt	ccagatcgcc	taactatgat	agacaaaaac	180
gcgtttccac	attttgggaa	aaattgtgcc	gacccaacga	tttcgattcc	ctattctccc	240
atgggcaaat	acccttgtcc	g				261

<210> 4849

<211> 651
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4849
 aaagggtaaac gttatctctg ctctgcccgtt gaacagccat cacttttcaa taatgagcaa 60
 tttatgatac ccttttttcg ccgggcagggt ctgggcacga agctatcgct gctaacagggt 120
 gccagtgtag ccacgctttt ttgtctgttc actttttctg tgagccacaa ccgcagccag 180
 cagcttgaag atcttgcggt tgaagacctg cataaccagt ctaccggcgt ggtggatgat 240
 gtagagatgt tcaaacaccag cctgagcgaa gaggctogaga gctataccgg cctgttcaac 300
 accttttttg cacagccatt gaacagcgac agcagccaga gccggaccat taacggcctt 360
 accgtttcct tgetgaaggg cgggtgaaacg gagtgtcatg aaaaacaatac gctttctgat 420
 gactttctga gccgaacggg ggccatctcg acgctgtttg tccgcagcgg taacgatattt 480
 atccgcgtgg ccacgtcgct gcgcaaaag aatggcgacc gcgcccacgg aaccgtttct 540
 gataccacca gccccgcat tgcggctgtc accaaagggg aggtctatcg cggcctcgcg 600
 ccgctcttcg cgaatcggtt tcagcagcgg caggaaagag tatgcccaaa g 651

<210> 4850
 <211> 243
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4850
 accgaggccc aatgcgcaga ccctgcgtca ggcgatgtca tttttatttt agtaatttca 60
 cgctatttca aatatcatct ttccaaatca attcttatcg gaatagctca tgacgggaagc 120
 gcaacggcat caaattttac tggaaactcct ggcccaaaaca gggtttatca ccgtcgagaa 180
 agtgatcgaa cgtttaggga tctcccgcgc taccgcgcga cgggatatca acaagctgga 240
 tga 243

<210> 4851
 <211> 588
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4851
 ggaagtaaac ggagtatgcc aatgaagact cagcgcgttaa tcaaagtagc gacgtttctg 60
 gcgttttgtt taccgcgttt gacgcttgcc gaagattgtc agatcacgct ttctcagccc 120
 atagttagatt ataaacagct caagcgtgac gatattgtta cgtctcagca aagctggcat 180
 aaattgccgg aacgggaagt taccgtgaat gtgtttttgc cagacaaaca gaagctggca 240
 gtgcctttac agggtaatgc tggagagaaa ggtcgccttc tttttgttca gaatggcgtt 300
 gtccgagttt aaattgatga tatgaatgtt gatggcaaaa gctataccgt gggtaaaaac 360
 gttgatcagc ttaactttac gccggaaaac ggggtgcctt ccgcatctca tttaagaaat 420
 aatgaagcgt tcgtgcgggt tgaaaataac caggccgtta cgggcagca gatgacattt 480
 acagctacga tattccctgt gcttaaatgaa agtgcatcca gtaataatgc cgatcaaaac 540
 acgctggaaa cggatttttag ctggaaaata ttgcaaaata atccatag 588

<210> 4852
 <211> 222
 <212> DNA
 <213> *Enterobacter cloacae*

<220>
 <221> unsure
 <222> (81)

<400> 4852
 attattaaat cgggtattac gcaaggctac ccgcttaaat tattcaattgc gttttattatt 60
 gtaaccatto ttctcgagat naaaaaaac gaaaaatgca gtctcaattt ctatttttct 120
 gatcaattta aaaaaatat aattttctcc aaaaaaacac ggccaggcat aaacctgacc 180
 gttaaagatta aaattgagtt agcgttattt tacaacgcgt aa 222

<210> 4853
 <211> 285
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4853
 cgctgacgc gcggtattga gggcatcgag aactttaacg gcatgcgtca ggaactgttc 60
 gccacgagcg gtaagctgag cccccagacg gccgcgatcg aacaggcggg ttcgggtaag 120
 ctgtttccagt tgcgttcagcg ttttgagagc tgcaggctga ctgagggttaa ggggtttcagc 180
 cgctcgcccc agcgtttccct gttgagcgac ggcacacaaa gtatgcaaat ggcgcaagcg 240
 tatgcgctga ctgaacagac catttttttc cataggcgat gttaa 285

<210> 4854
 <211> 204
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4854
 agacagaatg cctcgctggt ggaagaagct tctcgggcag cggcttcgct ggaggagcag 60
 ggcgcaacgt tcgacggaac cgttggcgcg ttcgtctca acggggcgcg tgcaggacgg 120
 gctccagcgc ctgcaaacgc agcgaacccc tcgcttttaa ccccgggcgc ggtcgtctca 180
 ggtgataact gggaaacgtt ctga 204

<210> 4855
 <211> 267
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4855
 tggcgcgcat tcgacgcgct ctatgatctc atcggggggtg aaattaaaaa attttttatc 60
 ttccccccct tgatggatgc cgttctgacc ccattcttga agcaaccgca gtgtgtggac 120
 ctgaaaaaaa taaaatctgt gcagttgaaa aagcacgttc tgcccttatt acaggctacac 180
 aaccacatgt tgactgaatt tttagtggag acgttttagat gggtaaaatt attggtatcg 240
 acctgggtac taccaactct tgtgtag 267

<210> 4856
 <211> 204
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4856
 tcagcatcaa aagaagaaga aaaaacaatca aagaaaaaag aaggctcatc agacgaaaaa 60
 gagaagaagc ccgaaagaga aaaaagaaaa gaaaaagaca cgcagaaaga aaaatcagag 120
 ggagagggaag cagcagatcc agacaatcca gaaaaaagag aaagagaaga agaaacggca 180
 aaggacacgg attcccaagt ttac 204

<210> 4857
 <211> 282
 <212> DNA
 <213> *Enterobacter cloacae*

<220>
 <221> unsure
 <222> (253)

<400> 4857
 gtcaaccaac atcatgaact ccaaaaaagc gatccacaaa ccaaagataa aaaagagaga 60
 gaagaagcag tccttaacct ctacaaagaa accataaagg caaagcagcc gggaaaaagaa 120
 gaaaaagcaa acagagaaga tcttaaaatc caacagacaa tcagagaagg atctctctgaa 180
 ggaaagagga aagaaaggga caaagacgat cagcgaaaaa tcagatcgg cgataactgt 240
 gtgtttttcac acnaggcgt ctggcaagga tacctgtgct ga 282

<210> 4858
 <211> 627
 <212> DNA
 <213> Enterobacter cloacae

<400> 4858
 ctgagtgtg tatctaactg tgggggcagg tcaggcggtc taaaagggtt tgggatcatg 60
 agcctcagct ctttgtacag ttcttctgac gcggaataca tccagggtcaa tcaataccta 120
 gtgttcgtcc ccaatccaaa aaaattgcct tacaatgatg aaagtttggg acgtgagggg 180
 gctaagtatg tttttgagca tacaataagca actcaggcct catttggata caacctgaa 240
 aaacagaaaag cagctctggc cacatgtaaa attgatatgg cagtcgtcaa taaatggagt 300
 acctgtgatc tgcctctctaa gctgatgct gatgttttcc ctacagattc aatgtacagc 360
 tttcaggcga ttgcgccgcg aacaggaacc gaaattccgt agctaaacct tcccgctggg 420
 gattacgctg taattcgtta tgtgttcac ccatctaaag gaaacgaaac aagcgtgat 480
 ttttcgggta tcatcttcgc ttctgatagc ccaatacaaa caactccagg gggtgttga 540
 gccccatca acggaaaaga ttattacctc ttaccgggtg aatacggtaa aaaaggcttc 600
 ccagaaaaaa cattgaaagc caagtaa 627

<210> 4859
 <211> 450
 <212> DNA
 <213> Enterobacter cloacae

<400> 4859
 tttcagctgg ctaatactgt ggaccctgac ggggatatct ctccgtcgga ggggatatcc 60
 cgtattttaa ctgaggatag acccatgcac gcagacgttt gcacacttaa gacacctctg 120
 gacacgtcaa gctggctttg cctgcttgag agtgaacttc tgacatcaag ggcatttcag 180
 cgtctcgacc ttcatacgga gcgggatgaa ccgaatgaac tgaactatct ggaagatgcc 240
 atcattaacg ccggcacagc ctatggctgg ttgtctgttt ttctcaaggga cgggtgatatt 300
 ccccgcttgc cagcagctgc ccgagaatt ctctgcaccc ttgacgtct cggtaaaaga 360
 attaacctgc ctttctggga gaaggctgtg gccccggggc aggatgaggg ctgtggcgac 420
 aaagctatcg cagccctaga aatgatgtaa 450

<210> 4860
 <211> 681
 <212> DNA
 <213> Enterobacter cloacae

<400> 4860
 atcccccttt ttttctttgc ggaggattta tcaatgaaa acctgtcttc ttccccggct 60
 tccagctcgg ttgtttatac cattgagcac gtcagcacgg ttccgttacg tcaatggcat 120
 gctttcgttc tggcgctaac agaaacgttc tggcaactgc cgggtgcgtc tccctcggga 180
 aatatgtatc tgcctgcgtc taatcgccgc gctgacctgt ttccggttgc tgatgtcatg 240
 cgctttctgt gcgattcagg cggcagtttc tggccggtca acatgacct tgagcccgag 300
 cgcagcaaca atacgctgag tattcaggag ctggattttc agcatcagcc ctgcgatttc 360
 tttgcgcgtg ttgtgatggt cctgctgcac aacctgtgtc cgggcagctt ccggatatac 420
 ttctctgacg aaggcgccag ctgggcaata ccgttacgct ggattgagcg tcatattgac 480
 ctgcctgagc agtgcctact gaccacgct cagccggtae tgcaaacgccc ggtgagttag 540
 ggggcgtttg attccctgct gctgcaactg ctctccgggt gtgagcgggt gctgagcagt 600
 gaggactgga atgcctctgt gctggcgga ttctatctgt acgaactgaa gcgcgtcact 660
 gaaagaactg acgcccgtga a 681

<210> 4861
 <211> 1008
 <212> DNA
 <213> Enterobacter cloacae

<400> 4861
 ctgtcacggt cccgtgagga caccgctcct caccgggctg tgcctcttt tttttatgaa 60
 agaggagtat tcaactatgc cgaatggtgt cataaccgcc tggaaattac cggtaagccc 120

gtctgtatcg	atgtcatgct	gcagtgagata	aacgggagctg	acgcccccg	tcacggccac	180
gcggtgcagc	agagcataca	gctttttctg	gcgggtgcgg	cggggatact	taagccgggtg	240
cgacaccagct	cgtatccgcc	ctttcagggg	ctgggtccgtg	caggcacagg	gctttccact	300
gcgggtaccc	aggcggttga	aaactggctg	gcattgttgc	tgacggatgc	cgttcttgat	360
gcggaaacca	tccgggtcat	tgaccggctg	tatcaccagt	caggcctggg	ggcgctgaaa	420
tgggaaacca	tcccgctctc	atcccggtgac	gttatggcag	aactgattat	ccggcaatac	480
accgactggt	tgtgtctggt	cagcgccggc	gatgagctct	atgcgcggcg	tgccctgggaa	540
cggtctcagc	agtatcctga	gcgctcgag	ccctgcgaca	tgctggccctg	gataccctcc	600
cggtctggctg	cagagctgaa	cgggtgccgt	gggtctgatgt	ccggtgtgtc	gaccacaacc	660
agcctctact	gcgcgcagta	cggcatggag	tggccggccg	ggcacaatgt	cagctggcag	720
cggcatacgc	caaacagctc	tacgctgcag	atggatacgc	ccctggcttc	gcgctcaggt	780
gaggttgtcg	gggaaatctc	cgcggtgttt	gactgcgagg	tgcttcacag	ctacagcgag	840
ccgctaagcg	ggctcagcgg	ttacgactgc	tatgacggcg	gtgaacatgt	cgacggggac	900
aaagcgcgct	ccggcgccac	tcagcccggt	caggtgtctt	atctggtcag	cgatgagccc	960
gattcaccgg	ctcaggacgc	tacatcatat	cgtgaggtcc	gggggttaa		1008

<210> 4862

<211> 228

<212> DNA

<213> *Enterobacter cloacae*

<400> 4862

tggttgcaaa	agcaacatat	aagcctgctc	attttcagag	caaatggagc	ttatgtcaac	60
tgtggtatca	aatgggtcac	ccatagtagt	ctcagggcag	taaacacacat	gatgctggag	120
atgcgcgctg	caattgctcg	taaatattat	caggatcgcc	tattgaggca	gataaaaagg	180
aaaaaggaaa	aagacaggga	aaggctggca	cacaaaagaa	aaatataa		228

<210> 4863

<211> 201

<212> DNA

<213> *Enterobacter cloacae*

<400> 4863

tttaaaatac	tttcgagacg	aaactaccta	caaagcatga	tccccggcgg	cacacttaag	60
gcgcatttcc	tgccctgggg	tagtgcgaat	gacgacaccc	catccccgpc	tgcttatccc	120
ttatcccgctg	cgccgcgcga	tggcatgatt	aaattattgt	caaaatttgc	ttcactccgc	180
gtttatcccg	atttttgtta	a				201

<210> 4864

<211> 1191

<212> DNA

<213> *Enterobacter cloacae*

<400> 4864

catgccttcg	ttcacgtgca	gcagctcaaa	cgttcccgcc	ggatgtcccg	gagagggtga	60
cggtttctcc	ggatgcattc	cccactgcga	cagctcaaat	atatccgggc	ctgcgggtgcc	120
tgccagcaat	ctcgcgtaac	cgccctgtgc	gccctgccac	agaacccggg	gcgcctcttc	180
ccgaataatg	tgtatctcgc	gctcgtcgga	gacgttaacg	atatctgcca	ccgagacggc	240
aagcgcggcg	gccagtttac	acagaatggc	aatgctgggg	ttggcagccc	ctttttcgat	300
ctctaccagc	atgcctttgc	tgacgtctgc	gcggcgagaa	agctcgtcca	gcgacagttt	360
ttttcttttc	gcgcagctgc	ggatacggtt	cgagacggcc	aggcttaact	gggcaacatc	420
ggcaccggca	tccgtcatia	tattgacttt	atcagtcatt	ggctcactac	atgggtataa	480
acagtcataa	cagggattatt	tatgtctctt	gtaacaccgt	caatagattc	gcgacttgtc	540
gggatcgcg	cggcgtttcg	ggcgctgagc	atcttggttg	aagctgcgcc	gattacccaa	600
cccgaggttg	cgcccgctgc	gcggcgcgag	gcctgccagc	agatgtccaa	tgatgatgtg	660
ccttgggcag	aaaatcatct	cgcccgctgg	gatgaggtgt	ttaaagcctt	ttggtcaaaa	720
cccaaaccta	cgccctgctc	ggcctcggcc	ctgcgcgaagc	gcgtgatgag	agacgggttcg	780
ctgcgcgcgc	tcgacccggt	ggtggataac	tataatgcca	tcagtatccg	ctacgctatt	840
ccggtagggg	gagaaaatct	gcggcgcttac	tcgggagcgc	cgccgctgac	gctggccgac	900
ggcagtgagc	cgtttgtatac	gctcaaaagc	ggtgagccgg	tagtgcgaaa	tcgggagcca	960
ggcgaaagta	tctggcgtga	cgatcttgcc	atcactcgcc	gcgcgtggaa	ctggcgacag	1020

gggatacgca	cgcgtctgga	cagccaggcg	cagtcacatgt	ggtttattct	cgaagcctg	1080
ccgtcgatgc	cgtggcggc	attacaggaa	gctggcgatg	agctggtag	caatctgcaa	1140
aagctgatgc	cgggcgcgac	ggcgcgatatt	cagttgctgg	agctggcggtg	a	1191

<210> 4865

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4865

caaccagcat	cccgcctgcc	cgccatccct	gaaatccgcc	atttcgtgcg	tcattctctcc	60
gtttcaaaag	tctcctggca	aattgccgtt	cccaacaaca	gaacagcact	atctgctggt	120
ttcttcaact	ctcatcgcat	tcttttacag	gtaaatcgct	tgtttttaca	ccattatcat	180
cctgttaacg	gaagcgccag	aaccttaacg	catggataa			219

<210> 4866

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 4866

ggtgcactca	tttttatag	ccaaatcatg	cgcatacgt	cgagctgggtg	gggattaatg	60
ttggagctgt	atcgctctca	taaaacctcg	tttgatattt	ttttgtgat	cgtcctggcg	120
gtaatcgctc	gggtgttcta	ttggggcgga	aaacttcgcg	aatgttgcgg	tgatatcttg	180
atcgggactg	tgatcatgac	ttttggcgca	gctcacctcc	caaatgtaat	gatcgctatc	240
ccgcaaatg	gctcagtcac	attcagccac	aatgaaattg	cgtttgtaat	cggtatgttg	300
ggttacaagg	ggattaagcg	tgctattttt	ttggtattaa	aaaaccgggt	tggcatcgat	360
ttaccgcctc	gaattgcaca	gcgcaaaagc	aacgtataa			399

<210> 4867

<211> 516

<212> DNA

<213> Enterobacter cloacae

<400> 4867

cccgcctcag	cgggtttttt	tatggagcaa	accatgactg	atagatgtaa	atgggtcgct	60
acagctcgta	agtaacatcg	agaagctgaa	gtgcgatgct	cgaaacataa	ccccctcatt	120
ctgcacaatt	ggcgcgatat	caagcgcggc	gggattaaag	atgatgaaac	gccatgggtg	180
gcagcgtttc	tccgggtctgt	cctggaacaa	aacggtatct	agtcaacccg	ttttgaaacc	240
gcgcgctcat	atctcgactg	gggaatcgag	ctgcaagagc	ctacatacgg	ctgtgtggct	300
gtattaaagc	gtgatgggtg	tggccatgca	ggattgtctg	ctggacagaa	caaaagcagg	360
gacctgatga	tcctcggttg	caatcagtc	gatgcagtc	atatcaagge	gttttcacgt	420
cagcgcgatg	cgagctatcg	ctggccgcgc	ggccagtcct	cgttctctca	gtcattaccc	480
gtcatgatgt	cgaacatttc	aacatcagaa	gcataa			516

<210> 4868

<211> 383

<212> DNA

<213> Enterobacter cloacae

<400> 4868

tccggaagag	gccgcgttgc	tcattcgctg	aaatcacgtc	tacgcgctat	gagctgctac	60
gacgacgatt	tgaacgcggc	tgacgagcag	atgctcgaa	cgtttggtcg	tccagttcgc	120
ctgcgcgaac	gcgctgaccc	ga-catcgcg	atattcaacg	aaccctacgc	gcgaactgat	180
ttaccacagc	cggggggcgg	gtttatcacc	ggcagagtaa	cgagtatcac	gggttaaatcg	240
gggagcgttg	atggtatcgc	caggcggtg	gtcattccaag	gtaccaaaaa	agcgcgaaac	300
tggtgatgaa	aaaggaaacc	ctggtttctg	gggcagctgg	aactgaatta	ctttcttgaa	360
agtagccctc	gccgcgacgc	gtc				383

<210> 4869

<211> 972

<212> DNA

<213> *Enterobacter cloacae*

<400> 4869

actgcaggaa	ataatttctt	gttccattta	gggtacacac	aaatgcaagt	taaaagctta	60
gggtttttcaa	taacaaatga	taatgaaaac	atcaaaaacaa	tagatgtaat	gaatgaattt	120
atataatcat	cctccacgtca	atataatcgc	gcagattata	cgcgcagggt	cottatgtcc	180
gatgtgaatg	attttttatta	tggtttgggt	gtccacattca	aaaacaaaaa	gaagaactgc	240
atgtccacgt	tcattgacgg	caaattttaag	cttaaaagtgg	aagaacttca	gggtgacgaa	300
aaattagtca	catttcaattt	atttttgtctg	aacaaaaacta	atcttcgcgg	tttgtatatg	360
tctcatcatg	gttcttgcag	cctcaacaca	cttttcagcc	actttcaaa	cgtaagtaat	420
gaatttatca	gaaagcaaaa	cgcagcagat	attgaaaagc	tgggagacaa	tccaaagcaa	480
aaagaagtca	cgcaggttaa	caaaaaatat	aagaagcggt	tttcatttag	cataatgaca	540
accaaggagg	atataaaaac	cattcttggg	cagttcctaa	aaataaaaaa	agcatcattt	600
aaattcgatt	acatagactt	taagggggga	gcattgactc	cactcgaaag	atttgccaat	660
tcaacaacaa	tagacatgag	cattaatcca	gacgacaaat	ataaagtgtg	ggcactgtca	720
caaaactatg	cggatacttt	tgaagccatg	aaaggtggaa	tatctaaagc	tagagttact	780
gcggtagatc	acgggtggaat	agagaagatt	atagatttca	tggattgccc	tgctttcttc	840
gaatcttatg	attttgtatg	aatagctgaa	aaaattaatg	gcctgactaa	cgataattat	900
acttccaacc	ctgtatttga	tatgatcaag	gatgagatat	tgaacggggc	caacaaaaat	960
gcctttgtat	ga					972

<210> 4870

<211> 297

<212> DNA

<213> *Enterobacter cloacae*

<400> 4870

atgaatgctg	atattttatat	ttacctcttg	aggagatcta	aaatggcaga	tgcgcgattt	60
accctaccct	aaagcggtata	ccaaaagcac	aaagagtctt	ttgagaaact	caaaatggat	120
atcgaggctt	ataccagtga	taagaacgtg	gatattggtat	ccatgagttg	ccataaggat	180
ggagataatc	aggatttctg	ggatctgggt	gaagcaacac	gaactacat	ttgcaagcaa	240
gaaaacctaa	ctgcgcgatac	gggaggggct	ggtgtttgct	ggatattcca	taagtga	297

<210> 4871

<211> 237

<212> DNA

<213> *Enterobacter cloacae*

<400> 4871

gagatcaagc	tttgccgcct	ctactgcagc	ctgcgctaca	ttgacttggg	caatacgggc	60
attttttata	gaagctgcac	cgtcataatc	tttaacgggaa	acagccccat	tattgaccag	120
tcggctgaca	cgttcaaaat	tgcgatttgc	ctgaaaacgcc	tgagcctcag	cttggcggaag	180
ttgcgcctta	gcgctatcaa	gagctacctg	aaatggtcgc	ggatcaattt	gaaatag	237

<210> 4872

<211> 285

<212> DNA

<213> *Enterobacter cloacae*

<220>

<221> unsure

<222> (38)

<400> 4872

tcgagctgca	tcaccaatag	tgtctattct	ctccccanat	gctattcggt	gataactaaag	60
ttagtgttaa	aagacatagt	ttcaggccaag	acttttgggg	aatttgttaa	gcctctgaac	120
aagttggcac	acaaattatt	tccaaaaaat	ctgggccaga	agttaccctc	tttaaagggt	180
aaaccctccc	ctgatagaaa	ggccaagggc	catattattt	attttttttc	aatcataaac	240
aagataattt	acttttatatt	ttatttcattc	attaaagaat	cctaa		285

<210> 4873
 <211> 201
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4873
 cgcacatcac gtggtgaaga cagggatacgt cttcgacgga tggcggcaga gttaaacgtg 60
 ccgttgaaact acctttttttg tgaatgatcag acgacagcag aacttgcaat acctatattc 120
 cgaatgacag aggaagacgc aagtaaaact atcgaagcac tcaaaaacgc ttcagggtgac 180
 aacactgctg acaaaaaatg a 201

<210> 4874
 <211> 189
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4874
 aggcctcgacc caatgcgttc gtctgccagc ccccttaaca ccaacatagc gttatgccaag 60
 aaaataatct ggcaatcctt tattccgcaa acgtttgtct aggtcagagt tatctatatg 120
 tcgttttgacc aaggcatcct gtctgagatt gaatgcctca acagaacgga atccagtgac 180
 gatcagtaa 189

<210> 4875
 <211> 465
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4875
 aaacaaagag gaagaaaaat aatgcgttgt aaagaatttg atactcagat agagcatgaa 60
 ctccagttga tgttgattga agggtttgat aaatcgccca ttccagctat aaacttacat 120
 gccagactta aatcaaaaag aatcatlaat ggtggcctta gtacattaaq taacattgaa 180
 cgaaggcgct ttattgcagc ctatgtcgat caacaactat cgcctttgaa tcttcgtccc 240
 aaagaaaaac agcagtatgt gaaccgttaag actcggcagg ccttgcttgg tcgtaatcag 300
 cagttacagg aagagaataa agagcttcgc gaacaactag cacagaatac cttgtcattg 360
 attgaaattg tcaaacgggt aaaaatcaat acggttatat cggtagaagag cctcttgct 420
 ccgatttga tcatggaatt acacaaaagg aaaaagaatc aatga 465

<210> 4876
 <211> 1242
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4876
 gtcactctaa atgactctga ggtgtctgtt aaaccocgtg cagttcagta tatagaggac 60
 gatattctcg atgcacagac ttctattctt atattatttg ggttgaagat cotttgtgtg 120
 gaagagttcc ctggattttac ttggaagac tatgaggatc ttgagtttat acctagacca 180
 aatgcgttta actgggagat ttatcaggac attgacaata ttctcgaaac ttgtgaaaaa 240
 agcatgataa ctaaaaggttt atttgagata gcaacttgat tggccagagg taaaacttat 300
 gatattaaag agttaaagca taccgcagta ctggcggtta gttatgcac tggagcgcgt 360
 cccgtgcagt tggcaaaagt atctgttcga gacttgagaa ttgatacgtg cgatacacat 420
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<210> 4877
 <211> 261
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (15)

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ttacaggaaa	ggggggttga ttccgtctct attgaagatc ttgtgcgagc ctgtcttgaa 180
gagaaacgc	caattgatct agcctcactt taccttgaaa atctcttaaa acagaaaggc 240
accagcattt	gcgattttta g 261

<210> 4878
 <211> 453
 <212> DNA
 <213> Enterobacter cloacae

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attatggtgt	gcctcgtgtt gttactctca gtggcgccgg cgtggatcag taataagaca 180
gttgatttgc	tcgaaagatt ctatttcaag cgtcccgctga gcattggagta ccggcgatga 240
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aatggcggtg	acaaatataa aaggacggga attttgcctc cgggaggggc actctctaat 420
ctacacagac	ttaacccggt caagaaaaaa taa 453

<210> 4879
 <211> 540
 <212> DNA
 <213> Enterobacter cloacae

<400> 4879	
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aaagtcttca	gtggatttga agttccgtct gaaggaccgt catctattac ggggtgagaca 180
gaaaaattct	ttcgttttgt cgttaatgaa gaaggctacg acccaggaag aggtgctatt 240
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tttaacactc	gctgtggaga cgggatcttt catggttgga acacggcttc agaattgtgg 480
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<210> 4880
 <211> 915
 <212> DNA
 <213> Enterobacter cloacae

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gatctagta	aaagccgaca tgacctgac gaggaccagg taagagcaga atcgtgtgac 180
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ggagagtga	atggaactgg	gcattatggt	gtgcatctgt	ttgttactct	cagtggcggc	900
ggcgtggatc	agtaa					915

<210> 4881

<211> 564

<212> DNA

<213> Enterobacter cloacae

<400> 4881

tgatatctct	ttatcgatgg	ataccatctt	ttatatatca	ccttaaacga	taagaataga	60
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caacgtaaat	tggcggaggg	gatcttccat	gcgctctggt	ttgaaggcat	tgctacggcg	180
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accataatc	tggcgaccac	ggcaatgctc	tggaaacatta	tctataactt	tggcttcgac	300
cgtttctggc	cggtccagcg	ggcgaagcgc	acggcgaaa	tgccgcctct	gcattgcgctg	360
gggtttgaat	gcgggtttat	tggtatggc	gtaacccatc	ttgcgcgcgt	gctggcgctg	420
acgctgctcc	aggcctttac	gctggaaatt	ggtttctctc	tgtttctctc	gcctgtacac	480
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<210> 4882

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 4882

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ctgctggatg	ttgagagaag	cttctatgtg	attattgaga	taattaaatg	gtacgctgct	180
ggcacaatgg	agttatttgc	gggtgttgcg	ataattggta	tccaaaatag	ttacggggcc	240
ctgagccttt	atatcgacgc	tggaacgggt	aaaatcgaga	gctttctttt	tctgataaat	300
tga						303

<210> 4883

<211> 1407

<212> DNA

<213> Enterobacter cloacae

<400> 4883

cacgtttctt	cattacgttg	ttggcttcac	ttactggatg	ctaacaatat	gaaaaagaaa	60
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aagcagggcg	atgcgctgac	gtttgcgacc	gtgacggatc	cggtctctaa	cgctgattcg	300
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gaaccacgc	tcagcgtgaa	gcgcgtgaag	aagccggagt	cgcacagcga	gctgtggatt	1380
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<210> 4884

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4884

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aaactgtata	tttattgcaa	aaggaaaaag	aagaaacgca	ccccaggcaa	ggagcgacgc	120
ccatccggcc	aaacttatta	caacaccgcc	actttcgaa	cgaataaaat	gaataataat	180
ttctgtctt	caccgcgagg	ctgccaggta	cgcgcgttaa			219

<210> 4885

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 4885

cctacactat	ttttaagcgg	attagaattg	attaaatata	aaaaacagaa	tgtgtataaat	60
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aaaaaggccc	acgttaacag	taacgtgggc	ctgaatatgt	gggaaacgga	cgggactcga	180
accgcgacc	cctgcgtgta	caggcgaggta	ttctaa			216

<210> 4886

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4886

ctaaacggaa	tcccgagggt	taaatctcgc	ctaaatggcc	ggaaatat	tgcgaagcag	60
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aaagttaaat	attctgtgca	gaaagcgggt	gcgtatcgtg	aacagactta	taatgagaga	180
aaatga						186

<210> 4887

<211> 261

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> {65}

<400> 4887

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ttctcgttgc	cgaagtgcct	cgttggtaac	acacccttta	cctctctcga	actcctaact	180
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tggggcctat	taaccgcttc	a				261

<210> 4888
 <211> 321
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4888
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 cttggaggat ggtcccccca tattcagaca ggataccacg tgtcccgccc tactotttcga 180
 gttcacagca agtggtgtttt cgtgtacggg actatcacc cgtaccgctg gactttccag 240
 accgttccac taacacacaa gctgattcag actccgggct gctccccgtt cgctcgccgc 300
 tactggggga atctcggttg a 321

<210> 4889
 <211> 234
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4889
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 agaaatacta tttacgtaac aatctcagac catttgcac aaccagaagg ctag 234

<210> 4890
 <211> 198
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4890
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 gttacacccc ttaigtctgat gatcgccatg actatgttct tctccacat gatcatgttc 120
 ttcatcagta tgactatgtt catggctgca tcttctatgt gcatgccac cttttcacatg 180
 cccttctctg ccatgtaa 198

<210> 4891
 <211> 201
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4891
 tatttccgta taaagttaat taatagaaaa agctcagtg tggcgaaaca caagtccaac 60
 tctttagtgt taagccatca tggctctaga aaaatagcta atcttttgac actctgtttc 120
 cagcagaacg acgttgcacc gcacctttct gtttaccoga atgacttata tcatcagcaa 180
 tcgttaatct atgaagaata g 201

<210> 4892
 <211> 201
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4892
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 aatgtcatca agactacat cattaatggg aatatcgaca acaacgccat taaggcaaac 180
 atgcgcctct ttggcctgta a 201

<210> 4893
 <211> 189
 <212> DNA

<213> Enterobacter cloacae

<400> 4893

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atgggtgtat	tgtttttaat	gaacggaatg	tttgttaaaa	ggatagctaa	taattgtcagg	180
ggaatctga						189

<210> 4894

<211> 2130

<212> DNA

<213> Enterobacter cloacae

<400> 4894

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ataccgcgcc	cgatgcgccg	cattgtgtac	ctcgtccatg	gcgtgaacga	cgtgggtgaa	180
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<210> 4895

<211> 711

<212> DNA

<213> Enterobacter cloacae

<400> 4895

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ctgaaggctg	ggggcgcgca	aggcgaactc	tggtacacgg	atactgagct	gggtatcatat	180
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<210> 4896

<211> 711

<212> DNA

<213> Enterobacter cloacae

<400> 4896

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gagtaacacg cgtgggatca tatgcgctgt gatatggatg cggggcgata a 711

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<210> 4897

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 4897

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caggcgaaaag aaccaccaac gcaggtgggtg taccgatttg atgatcatcg ttatctcgaa 120
ctgaaaggctt ggggatgtga taggaaactc tggttcccg atactaagcc aagcattcac 180
tcggaaaccc ctaagtctgt ttaa
204

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<210> 4898

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 4898

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aaaagatcga tttttgagcg atgtgtgcgc atccatctgc cagtgttcac atttcaggag 60
cgacaaaact cttcagccct ggtcatgatt ttccctccct tttatcactc atcgagaaaa 120
cctaaccgcc agccatcgag taagtccgcc acgtatccgg aagggtcgaa cggcgtgctt 180
taa
183

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<210> 4899

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 4899

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gtccagccac ggactattcc atcactcaca gttataaaaa ataaggataa tattggcccc 180
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<210> 4900
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

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 actcatattg ccggtcaccg catcgataac aactggctgg cctcggcgct acatacggcg 180
 aaaactgcgt gccagaaaaa caaaattctt taa 213

<210> 4901
 <211> 765
 <212> DNA
 <213> Enterobacter cloacae

<400> 4901
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 ggcgcacgcg agtgcctgct ccccttaatc cgcaacagaa cagaaacgac attatoccaa 180
 ttccaccctg acgctttcag cgcgtccggg aaaacattca gcgaaggaaa aacgatgaag 240
 atggcgatta ccgctgggtaa agcgtgtgca atcaactctg cgaccctgtt aacccggtcg 300
 ggctgaacgc aaaaagtgaac ggaaggcacc gtgcgcgtca cgaagctccat tttttacaga 360
 caggtgaaaa cctctcacct ggatattcag gcgcgcgaag gggtgaacaa caacgcgaag 420
 gggcgatcgc tggcaacggt ggtgcgaatt taccagctta aagagcgtaa ggcttttgac 480
 agtaactgatt atccgtcgtt gttcgccaat gacactcagg ccattaaagc cgactttgtg 540
 gcggaataag atatccgctt gcgcctcggc gaatcgggtga cgtcggatat gccgatgaa 600
 gagagcgcgc aggtttgtgg gttggcgggg atgttttatg caccggacca ggtaaatgat 660
 acctggcgta ttaccctgac ccgtgacgac cttgaccggg ataaggcgcg gggttatcgaa 720
 gtcagtaata atcgtctgac gctgaaacgc cttgaggggg aatga 765

<210> 4902
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

<400> 4902
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 ctgaaccata caacaagcgt agcaggagaa aggttaagtc attcaatgaa gggagaaaatt 120
 aagacgttta gaagagggga tgttgccccc tctcctgaat ttatgggaaa gtcaattcaa 180
 ttgaccctgc tgattagata taattctgcc tga 213

<210> 4903
 <211> 429
 <212> DNA
 <213> Enterobacter cloacae

<400> 4903
 gccagatgcc gaaagcgaaa gcgtgaagcg gtatgcagga tgaataattt tgcgtccgtta 60
 tgggaagacg gggccttccct ggcgcccgag cagtcccagc agcaggcccg cttgggatgca 120
 catgtggcgc acaccgtggc ccggatggcg cttggcgaacc cgtgggggtgt gctgtgtgcg 180
 gagttcgacg aaggcgctct ggccttttca cggctgaatg ccaccggcgt ttgcgtgcgc 240
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 cgtacgcgcg ctgtcgcgat ttctgcgct gctgcgggtg atgatcgtgc cgggacggac 360
 gcgagggaga atgggggcgc tgggtgcgct gctggcaccc gatagcgcca cgcaggttta 420
 tcaccatga 429

<210> 4904
 <211> 660
 <212> DNA
 <213> Enterobacter cloacae

<400> 4904
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 gtgatgatgc tgcggggagc gaecggggag ggaatggggg cgttggtgag gctgctggca 180
 ccggatacgc gcacgcaggt ttatcaccat gacgcgtgcc gtatcccgct gaagcagccg 240
 gttgcgatga gtacatgcc aacgggtcag ctgaagcacc ggccggtgat gggcacgcat 300
 gccacggatg tgaacggcca ggtgctgttg cgcctgagca cggacaaccc ggaagagatc 360
 cggggctggc tgcggggcgg tgacctgcac gctgacctga tggcgctgct gcacgtgtgg 420
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 ggcggcgctg cctgcaatgc gaaacaaatc gcgcaggtcg gcgcacggcc agtgcgtcgt 540
 ccccttaatc cgcacacaga cagaaacgac attatcacca ttcacctcgg acgttttcag 600
 cgcgtccggg aaaacattca gcgaaggaaa aacgatgaag atggcgatta ccgctggtaa 660

<210> 4905

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 4905
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 ctgtacggta acttcgcggc cggggcttgac ctgcacagt tcaagttaga gaaccagctg 120
 attttatcag taactgataa catgcagcgc atccctcaact gcgcgcggcg tacgctggct 180
 cactctccgg actacggctt gccggatagc acaaaaaatc tccagggaat gcccgggacc 240
 gccaccagc tgattaccac actgtcggct gtgtgtgctga aatacagcag gcgcctgagc 300
 cggattaatg tggtagatga ggaacagatt cagcccggtg aactccgcta cgccattgat 360
 gcggagctga aggggggtgg gctggtcgcg tacggcacgg aatttatgcc cgagggcagg 420
 gtattaatcc gtcatttga aacaacagcag tatctggata atacagcccg attgtga 477

<210> 4906

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 4906
 aaattgggag agcggcaacc tgaacgacca gatattttat ttaccttggt cggaaaagat 60
 acattaaaga gtaacttttc aatgttttat tbtagaacct gtgctgtagc gggttctgaa 120
 atattataaa ttgattttct cgcggtgagt cattgcattt tatctggcga aaagggtcaat 180
 ggtgta 186

<210> 4907

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 4907
 aatgtgagag aaaacagatt ggtgcgtctg aatggactcg aaccatcgac ccccaccatg 60
 tcaaggtggt gctctaacca actgagctac agacgcaaga tgggtgcgtc aattggactc 120
 gaaccacga ccccaccat gcaaggtggt tgccttaacc aactgagcta tgaacgcat 180
 gtgtgtcgtg tgacaacggg gacgaatatt agcggcacag cagtcttcac cacggggctg 240
 gaaggaaccg cgtgtg 255

<210> 4908

<211> 705

<212> DNA

<213> Enterobacter cloacae

<400> 4908
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 tgcgtcgcat gccctatcaa caaaaatgaa tgttcaaat atatatcgca attttctatc 120
 gacattaaag tacaagattg gcttagccgt tcaagagtag cgtttattga tttccataat 180

ctaagaanaa	cagataaaac	cacattaata	acagtgggac	atcttgaagc	tttacttact	240
gttatgtcaa	ctactcttgt	cgcttaacgt	ccatattcaa	aaaagagact	taacttttagc	300
tttctaatt	catttacttt	gtctaaaact	tctcaaaagt	acacattaac	tttcccggt	360
gttctcagtc	cgtttttaga	tgctcttggt	ggtttcattc	aggaatgcac	aaccgaaaaa	420
ttgttaaaac	gacgaaattc	gaatttcacg	gtttacgagt	atcttaaacg	ttcaggccag	480
agctctcata	aagtggagga	cattaataac	gacttacacg	ttaaaaactct	aaatataaga	540
cttatgagcg	tccttactgg	gctttctcag	caaggactca	tttcatttat	ttgcgatgga	600
aagaggggcg	accggagaat	agaagagctt	cagttttatac	cttatgttca	acgaactcac	660
cctgaggtat	taacttttca	ggaatggatt	agccccgttg	attag		705

<210> 4909

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 4909

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atgagcaacc	aaacccaccg	cctgccagaa	gaagatatg	agtttgttat	ggataccttt	120
cagaggagca	tgggtaaatc	caaacctgtc	agggatactc	aaatagaggg	cgagaaaccg	180
caaaagtaag	ttctccgcaa	ctcaactgaa	aaccocggtt	atgaagaatt	cttttaa	237

<210> 4910

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 4910

gggatggggg	acattgtgat	taaaaggcgt	aacattcgac	gatcagttta	tggattgctt	60
attgtttotta	tcgccggaaa	tgtgtgggtta	ggccttagag	ctgataaaat	tcataaaagt	120
cggttatcag	attttcgggt	accggcaact	gtgattaaag	taactgtaat	gccttcaacg	180
aatgaaatcc	aggtctcagtg	taaaatccct	aaatcggtta	gagtttcaaa	caattattgt	240
gagtaactct	taccgggcac	actctcggac	aagaccattt	accgaagcgt	gttagaagat	300
gagatgctca	ctttgcttaa	tgctggaggt	caacttgaag	ttaaatacac	tctggacaag	360
cagacaaatc	gaactaaagt	atgcactaag	tgcttacggt	tgattaaaga	tattaacctat	420
caatatttcag	ccactgaggt	aaagcatggg	cagttcttaa			459

<210> 4911

<211> 330

<212> DNA

<213> Enterobacter cloacae

<400> 4911

cccacagcgg	gacgcagaat	aatttacttt	tggcaaaagt	ttggttttgt	cagagtcatt	60
aaggattcag	gcttttttgc	cgcttttttt	aaacctccat	gtatcgtttc	tgccccgttt	120
atcgggggct	ttttttttgc	ttctttctat	gagttgacat	ctttaagttt	tattcaagaga	180
cataaaaaac	tttttctgtg	cactgaacct	attaggttac	agagcgacgt	tgctatcctg	240
gtaaaagtgt	tttctaaagt	accggtaaaa	tgctatctct	tgattctgaa	gctaaaaccg	300
ataatgcag	tcacagcgta	ctggcttttaa				330

<210> 4912

<211> 1824

<212> DNA

<213> Enterobacter cloacae

<400> 4912

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actgcctctg	ctactgtatc	ttccggcacat	gctcagggtat	ttagctactc	atttacagat	120
accataaagg	ctgtttcgaa	tattaagcct	gcaacacaaa	catatcttaa	tcccgcgtgt	180
gtttttgact	tgaacttgat	atcgggtctt	gatcggtaag	agcgagtgac	gggtcaacga	240
gacagcgata	aaaaggttat	gtattctctc	gtctcgacca	aaacgagcgt	tgacagatcg	300
atcgttgtctg	ccgatggaac	agaatactat	ggaaggata	tggtttctacc	ggcgctcgga	360

gaagggacct	ttactgtagt	caatgaaact	ctggatatcc	gccagactgt	agtgagcaca	420
tctacttate	atttcacgt	tgatacaact	cctccacgct	ataagatgat	ttatccgagt	480
caaaaacgcag	gttacgcacat	ggtaactttct	gggccacttt	gggagtgtggg	ccgagggcgg	540
agtgggcag	tttctatatt	tgcagacgg	attgaggatg	ctagtggaa	tgccaaagac	600
cgctttgtca	ttaaaacgaag	taatgggtct	gtgggtctccg	acaataaact	gagttatgac	660
acagccaaata	aacgtgcggt	ctatccgtgg	attaaagata	tgaacaccca	ggctggcatg	720
ccctcaagt	atcttgatga	agaattcaac	ttcaatttca	tcgttacgga	cctggcagga	780
aatacgttta	acattcctcc	ccagcggttt	ttatatgacg	atcaaatggg	agaattttacg	840
ccatttgcat	ttcatgaact	acgtgttaagc	accagtgttg	taccggcgat	ttcttcggga	900
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ggcggagtac	aggctccttc	cgaagatgcc	acctatgtct	acgtggaagt	taagctgcc	1080
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tggggaaagt	caccocataga	acgacaaaag	gctgatggaa	catgggtcaa	cagcgtaaa	1260
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aatatatcct	ggcataacct	gggtccctcc	gtcactggat	ttgatatac	gtaataccacc	1560
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gtaaaactcg	tttggtgtgc	agataaaaa	cgtatacaacg	cagaaaatag	cgtataccggc	1680
aaacaaacag	tgagaataat	ggcgctggg	aactacaagt	catgagttcaa	catgaaagag	1740
gtaccagaag	gcagttataa	cgtggttaatt	aatgcccaag	atacattcaa	caataaccggt	1800
aacctccctt	atcaaaactgt	tgctc				1824

<210> 4913

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 4913

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aacggcacc	ccgcccataa	agggttctac	ccacggcgaa	ctatgatcgt	gtgggtagtg	120
atggctgatg	aaaggcatca	gtttcgtttt	tccaaccagc	catgttgata	tgggcatgtg	180
tctgagatgt	cgagtcaaa	tgctataacc	tga			213

<210> 4914

<211> 309

<212> DNA

<213> Enterobacter cloacae

<400> 4914

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gcgacaatga	atgggtgatc	aatcccaagt	gttgctagga	ctatcaaccg	tatttcagac	120
cggtttttct	tagcggatcc	tttacttatt	gcagacattg	ctctgaaact	aaacaaatgta	180
ctgttgagca	tcagaaaaca	gcataagagc	atgtataaca	ttgggtttcc	tcaacctata	240
agtgtatggt	accctgttat	ttatcataaa	tttgactcaa	cagatgcttt	taaaatctcg	300
cttccctga						309

<210> 4915

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 4915

actcaatcgt	gtagttccca	gacgccaat	ttctacctgt	ttgtttgccc	gttacgctta	60
ttctcgtggt	gttacggttt	ttatctgaca	accaaaactg	atttacataa	acatggtoga	120
aatatgaacc	atctccaggt	tgattoaact	aaacctggag	aatggtgggt	gtttcaatgt	180
aatcaaatcc	agtga					195

<210> 4916
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 4916
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 tggatgatcc tcagacctga cgttcaccca cgtgatctga gctgtggtgt gtatatacca 120
 gttatactcg ctgcacatgg tgcccttgaa ttaccacgca ttgaacgtgt acccagcttc 180
 agctga 186

<210> 4917
 <211> 381
 <212> DNA
 <213> Enterobacter cloacae

<400> 4917
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 agcatcatcc tgttccagaa tgttctctcg cgtatccggt acaggccgga cattoaccac 120
 ctcaaccgga agcgtaacct gtcaggtaac ttaccactgt ataccagaa ggcggtcttc 180
 actggtttga atactgttgc ttgcgacagt atctccggga gtaacggtac caaaatcaa 240
 cttaccacca tcaattccca gtccaccgat atgtcggtga ccactccga ctatggttgt 300
 gttatcagtc tcagaaataa gcattgcatt cgtgatgtcc tcagtatatta ttccgtcgag 360
 cacaagatta ctttttccca a 381

<210> 4918
 <211> 555
 <212> DNA
 <213> Enterobacter cloacae

<400> 4918
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 accaccagtg gtgttattaa cctgagaatt ggcctccctt atgtacagcg caacgccatt 120
 aacagcgata ctgttacggg aattttcgaa gcggccatca tccaccagga taccaatatt 180
 atcggatccc gctgtaaaaat cgtatattcc gttattaaag agcaaacctt gattacgcgt 240
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 acccgatttt tgacctgtga cggaaaccac gaggccgtat gcattaccat caacctcagc 360
 cacaatagcg ccgtcaccta caaggtttac gctaacaccc tgttcaagcg ttgcttcagc 420
 ccccccggta acgtacaggc ccttagcatt atccccaga atctgaaat cacttcagga 480
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 ggttttccat tgtaa 555

<210> 4919
 <211> 225
 <212> DNA
 <213> Enterobacter cloacae

<400> 4919
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 tgtcaaccatg ctgatccggt tcaggagcag gaggttggagc tggagctggt tcaggtgtgc 120
 gatttggttc aggttctggt gtgatacag gcccgaggat cgtatctggt tccggggcgc 180
 gtgacagctc tgaacgcaga taccagtgcg cgcctgccc attga 225

<210> 4920
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 <212> DNA
 <213> Enterobacter cloacae

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 <222>(11)

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ctcattatgt	tctgggacan	atcagggtct	aaatcttcca	ggcgccagct	ctgglatggt		180
ctggggcagc	taaagttaag	octttattct	ttaggtatcc	cttacgattt	tatccagaca		240
aaaaaaggaa	gaggttacca	tttggaaaag	gtgaagatat	atctgataat	tgattctgga		300
actcaatgca	gtcatctaga	tcatagtcgg	taa				333

<210> 4921
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 4921							
tcgataaaaac	agcaggcggg	acaattgatt	cgctctccta	taattctcct	gtggggactc		60
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ctggtgtttt	accagcgtat	ggctatgggt	caggcggtgt	ggccagttct	ggtgggtact		180
gtataa							186

<210> 4922
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 4922							
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acgcagtgtc	agggccctgg	tcagaccctg	agcgccacag	ccgacaaaag	ccacttttta		120
accagaagg	aagctcgcgc	catcagcaaa	atcatcgcg	gccaaagaag	ggcaaaagcc		180
cagtag							186

<210> 4923
 <211> 198

<212> DNA

<213> *Enterobacter cloacae*

<400> 4923

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ggcccatctt	tccgcatgaa	atatcagcat	ctgcataatc	ctgttagatc	attgttaatt	120
ttatgcgggt	ttaatcgcat	tttcccagtg	aataactctg	taggcttttc	agcgattttt	180
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<210> 4924

<211> 228

<212> DNA

<213> *Enterobacter cloacae*

<400> 4924

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gcaggcttcc	tggccagcgg	cgatggcgcg	ggcatcgaag	ccgggatgat	cggccgctcg	180
cggcgcaacc	gcctcaacaa	gatgcaccgg	aagctggcct	ttggttaa		228

<210> 4925

<211> 207

<212> DNA

<213> *Enterobacter cloacae*

<400> 4925

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acgcgttttc	tgaaaacatt	agcgcttaac	gtcgcgtgcg	atacggatg	tttctgtcgc	120
ctggcccatc	acgcctgtct	gatgacgcaa	caaacgtcga	ttctttgcgc	aacgggggtc	180
gagcaaaacc	cgacgtgat	caagtaa				207

<210> 4926

<211> 249

<212> DNA

<213> *Enterobacter cloacae*

<400> 4926

cgcgcatcag	gtgtaaacgt	tccgctggcc	ggcgataagg	caaacgaggg	cgagatggat	60
attagcgttg	attctaaaac	tggaaagcaag	cctgtgatgg	aaagcaacag	cgggataatt	120
ctggctcgag	acgctgcctt	agcggcaatc	aacgaacatt	tcagtgatga	atttgtgaaa	180
ggtgaatggg	ctgattatgc	agctttgaga	agagcagctc	taagaactgc	cctagcttgc	240
cttatttga						249

<210> 4927

<211> 192

<212> DNA

<213> *Enterobacter cloacae*

<400> 4927

atgccagagc	cotctgatta	tttttcctgt	aaccatatct	tcgggttttac	cgtgcgaaaa	60
gtaggcgatc	tggacacagt	cattgtgtct	aatccaataa	talccctctt	tcataattca	120
cctcttaaat	tgtttcattt	agaagtgtat	atgacgattc	agaaccgggt	ggtcgacaaa	180
acgttttttt	ga					192

<210> 4928

<211> 273

<212> DNA

<213> *Enterobacter cloacae*

<400> 4928

aaaactaata	taatcaaaat	gatacaatca	cagttaaacac	aagttatatt	ttggttgggg	60
------------	------------	------------	-------------	------------	------------	----

ctgattgcag	cgctccggc	cttctatgc	tttgtgtacg	ctgggtccctc	tttgatatgg	120
cacaaatatt	tcctgttaa	gaaaattgag	atacagttgg	ttaacgaaga	taaggcattg	180
attgaaaaa	ttgttctaga	ccttgataag	caggatgcc	agagggttat	cgagctaatt	240
gaatcaagcc	gtaaaaagg	taaggttcgc	tga			273

<210> 4929

<211> 900

<212> DNA

<213> Enterobacter cloacae

<400> 4929

aacaggaag	ttatggaaa	gactacttcc	ttcaaagttt	tttatgatgc	tgatgataaa	60
gaactttcta	aacatgcaat	cgatgcggaa	actttaggaa	actctattct	ttccatggct	120
aaccttata	ccaaagccga	tgacttaatt	aacgaaggtg	gaaaatcagt	aaaggctcctg	180
ttttctgctc	ctgttgaaaa	agggctctgt	gggtgtgcat	acactgttgt	acaacttctt	240
ccagatgcc	ttgactttct	aaaaactatt	ggcatagtcg	gtgctgtagg	aactgtctgtg	300
caagcttctg	cactgtccct	aatacgacat	cttggtagta	agaaagta	ttctgtgacg	360
cgctacacag	gtaaaaagaa	agggatagcc	accttagaat	tagatggcga	agatattgag	420
tgctcagctc	ctgttgccgc	tctggtcaca	gacctgcaca	ttcgcaatgc	acttatcgca	480
gtttgcaaaa	aacctcttga	aggtaaaagac	tcctctgtct	tcaaaattgt	tgatagtaaa	540
ggtaaggaag	ttgtccgact	tgagggcgat	gaaactgaag	aaataaaaacc	cgctccctaaa	600
ggcactttac	tagaaaaaga	cgttgaaatt	aaggagggtta	acgtgaaatt	tacccaagtt	660
aacttcacac	gcgagaaagg	ctggagaatg	gagtataaaa	acgaagagca	ctctgtacta	720
cttacagact	atgaattttt	agctaaaagt	aggggtgcag	agggaaacct	aacaagtga	780
gaccttttct	cgatctattt	agagattacc	aaaaccacct	cagctagagc	ttccgcagag	840
aagtattgta	tcaagaaagt	tatccggcat	cgagttgctc	aaggtaaaaa	actaatataa	900

<210> 4930

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4930

accttcttcc	tggtctggta	cagctgggtt	atcagccggc	ttgatatttca	gtgcagaacg	60
ccctcgcaca	acctccccac	ccgggtgctt	ggcaaaatcc	tggtagcact	tggcggttatg	120
ctggcggtgt	gctgctgtga	gtttgaccag	atggcatata	ccgcgcgtgaa	cagcatgaac	180
gtcgtactgt	ggcattga					198

<210> 4931

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4931

tc aaatccct	acactgagga	gatagcaatg	aaagaaggtt	tctactggat	acagcacaac	60
ggcctagtag	aggttagctta	ctacaccgac	ggtatccactg	aggaccttga	aacgggccag	120
acaataactg	gtgtctggca	tctgacacga	ggtgatgata	tttgccataa	cggtgaggct	180
gaagtgaattg	aaggcccaact	gtctgcgcga	ctgaaatga			219

<210> 4932

<211> 417

<212> DNA

<213> Enterobacter cloacae

<400> 4932

gaggattcac	agcaatatga	ggggggggcg	atgtccgcat	cattttccgg	cacggggcgtg	60
gccgggttag	ctttgaccgg	agccagtgct	tacggtctat	tgaccggaac	tgactactcgt	120
tagtcttttg	tgcaatttgc	ggcgccgcta	ttttacatag	cgacagcgcc	tgacctgagt	180
gtgttagctc	gocctggcata	cttctctcgt	tctgtatctg	tcggcattct	ttgttcgggg	240
ctgttggtgt	caaaaactcac	atcctggacg	gggtacacgc	agaagccctc	ggatgctatc	300
gggtccggtaa	tcgcttctgc	gttagccggt	caaatcctta	cgttcctgaa	caagcaggac	360

atcggtctgc tgggtggcgt gataacgcgc cggggaggtt caggtggtac taaatga 417

<210> 4933

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 4933

cgcgcggggg	aggttccagt	ggtactaaat	gacccaacag	caactatcaa	cgcgctgctc	60
tgcgcgggag	ttgtgattac	tctgatgttt	tatcgccgtg	gtgatctcgc	gcattcggcca	120
tggatttcgc	gtttagcctg	gctgattacc	gtcactttaca	gcgctgtacc	gctggcgtaac	180
ctgtgcggga	tttaccgcga	ttcatcatgg	gccaccattg	cggccaatat	catattcctt	240
tcagtgtcgt	tggcgcgtcaa	aggcaacggt	gcattgtctg	tgcgtctc		288

<210> 4934

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 4934

cgcatgaaca	gtttaaaaccg	attgagacca	gcgaagcaat	tcagatgcgt	tccactggta	60
gggaaagatt	ccccgttcgg	ctatgtggag	agattaaaca	accaggcgga	tgagaacaac	120
taccagcctg	tgaacgcgat	ggtagaggca	tttgcaactga	tgaacgagaa	ggggcggtgag	180
gaatggctga	agttgatcgg	cgaattcagag	accacagagg	catcaccgtc	cacgtcatca	240
gatggagacc	cgagagccgc	cgcgttatat	accttcgcga	agggtacgat	catgagtgtc	300
tcagccctct	tgagcaattc	cagcgttaaat	ttacagagtt	aa		342

<210> 4935

<211> 732

<212> DNA

<213> Enterobacter cloacae

<400> 4935

cgtacgggga	ggataacagt	gatgaataac	tcacagcgac	agttgcgact	gctgaattct	60
gtcaggaaac	tgtctgaagct	gggcgcgcgc	aacagtaatg	cccatgaggc	aggactggcc	120
ctgcagcgtg	cccagaagct	gatggccaga	tacgggtatca	gcgagcttga	cgcgggtctt	180
acatctgtgc	gcgaggcgct	tcccgccacg	gccccttcgg	atgctgaaaa	agttccggaa	240
tggatggtaa	cccttgtccg	gggcgtctgt	catgcctttg	gctgcgcgcg	ttattactca	300
tggcgtcaga	cctctgcggg	gtatcgccgt	tcggtaacct	ttacgggatt	cagtgaaaaa	360
cctgagatag	cagcctatgc	ctttgatgtg	ctgacgcgcc	agctgaaaaga	tgccacaaaat	420
tccttatctca	aaaccagag	taagcggctg	aaactggcca	cacgcggggc	gagagcgagg	480
cagttccgtg	acggctgggt	atgtgggggt	cgtgaggtga	tatcggaac	tgacatcagc	540
agcggaggag	agcaggtgat	gagccactgg	ctggaagacc	gcagtatgaa	aacagtcaca	600
accggtgaac	tgaagagcgt	ccgcggtgcg	gatacagcac	gttatcaggg	gatatgaagg	660
ggacaaaatg	cccgtcttca	tcagggtgtc	agcggccggg	gtccggcagc	cattggttac	720
cgtcaggatt	aa					732

<210> 4936

<211> 597

<212> DNA

<213> Enterobacter cloacae

<400> 4936

gggggaatga	tgaacagttt	atctcaggct	gccaacggat	tgtctgatga	gctggttatg	60
gactctgaga	gtggctatct	gcgcgcgtgc	gaatcgctgg	gactgaaccg	cgaggaaatg	120
catatgctgc	aggggctctc	gctcgaagag	cttcaactacc	tttcgcgcag	tgaggtgtcg	180
atcatcagtg	tgggcatcaa	tcacggcaat	ctggtgcgca	tgtcgcagca	ggcccggagc	240
gaacagaaac	gaactccagc	tatcgatcgg	gcgctggcgc	tggcgcgctc	cattgaaact	300
atggccaatt	acttcgggct	ctccagtaac	gacgtggcgg	ccgcgcgtcg	tattgccggt	360
atcagtgctc	gcccggggcg	cggttaacgc	ctgggtgatg	aggaaaaacg	cgcctgttgg	420
cgacagtgcc	aaaagtccga	cgttgaagat	gcggaaagtg	ctgacgggct	ggacgtgatg	480

atgctggctg	cagaacagat	gaacgctctg	ctgacgtcgg	tctggcatgc	ggctcgtggc	540
tggcacaaga	cccgcgagcc	ttctccggca	cgacgcggg	taaggaagac	ggcatga	597

<210> 4937

<211> 378

<212> DNA

<213> Enterobacter cloacae

<400> 4937

cgggctggac	gtgatgatgc	tggtgcgaga	acagatgaac	gtctcgtgta	cgctcgtctg	60
gcgtcggttc	cgctggctggc	acaagaccgc	gcagccttct	ccggcagcaa	cgccggtaag	120
gaagacggca	tgaataacag	gatgggttgc	ccgggcctgc	gggctcccca	tggtaocggc	180
ccgcaatgct	gtcagaagcg	gttacgtcag	gttcgccgtt	tccggcaggg	ggcgcgtaat	240
tacaccggcg	tccgatgagaa	aggttgccgt	tactacaaaa	tccgatctcg	cccgcttctg	300
cgctcgtcta	gtcgcaacga	aggtcggaca	tggtttcttc	tcagccacga	acgtataaac	360
agcgccatac	ggaaatag					378

<210> 4938

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 4938

caaccgcgtg	tcgagcaaca	gcggcgggg	aatggaatca	tgcacatttc	cggtaaacag	60
caggccgtta	cgtatcctgc	catcatcccg	ccggggagctg	gccgcaagcg	ggcgattcat	120
ttttcccgcg	gtataagcaa	tcaggcttct	tgcaggcaga	ctcattattt	ttcctttctg	180
ggcgccatac	ccggcgtttc	gaactgtcag	tatgcttag			219

<210> 4939

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 4939

gagtcgcgcg	gcgctgtttc	agcgccagcc	ccaccacttc	gcttagctgc	atcaattcat	60
ggtcagtcac	tctcgtctca	ggccttagaa	aaacatgcag	cacaagatag	caactttctca	120
tcaaatatgc	ggatgcgcgt	cgggttttac	gagggggctt	cagaaaaaag	ccgatgcggg	180
cgacccggcg	agagagagcg	tattttcatg	ctgttagcga	gggtgtccac	attgtggcga	240
aacgccttga	cgtag					255

<210> 4940

<211> 432

<212> DNA

<213> Enterobacter cloacae

<400> 4940

aaccttttcg	cgtttgtcat	tgaatgagc	ttccagcctg	atgactggct	tttcogacat	60
tgcataaagt	ttgtccgcta	ctctgtacgc	gcattcatct	ccgaaacatt	ctttaacaac	120
gtcgtctatg	accgtgtcgt	gttctccatc	ttccggagct	ggcacaaga	tttcaaattg	180
tgccggtgta	tcgggctcaa	gcagaacggg	atagagagcg	ggagaattaa	gcgaagcgca	240
ttcagaatta	atgagcttaa	cccaggcgct	tttgtcgtcc	ggatccttaa	gctgctgtcc	300
aaggttatgc	caaaaagtc	ctatctgacg	gggtatgctca	tccgtgactg	cacagatcag	360
gttaagacca	tgccgtggcca	taacgagttc	ccgggttcgg	gactgggaat	tgatcgacca	420
ggggtttaagt	ga					432

<210> 4941

<211> 267

<212> DNA

<213> Enterobacter cloacae

<400> 4941

atccgcttat	ttcagagaag	ctctgattta	gtagttagg	aaaaacgatgc	ggtgaaaaagt	60
aaacttttaca	ccgcaattca	gaaaaaagtt	tcaattagtc	acattacgaa	taaccocggt	120
tacttttcga	tgtgcgttcc	cctggatgtt	aaagtaaagc	ccctcaggca	gactcgtcgc	180
ccacttaact	cctcgctcag	ccatagcgtt	cgggtgttcc	agccaaccac	gaggaatat	240
gcccgtaacg	tcaccgataa	cccgctga				267

<210> 4942

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 4942

tcaggagaac	aacccatgaa	aatcaaaacta	gccttggtta	ttgcatttgc	agggttcagc	60
gcaggaggtt	ccgctgaaat	cgcgaaattc	agcgtttaaag	ataccctgaa	cggttaaaaag	120
accgtatcgc	ctgcacccgt	atggattaat	ccggttaacga	gctttgacgt	tgccggttta	180
ttttcccggt	ctggacgggt	atattacgct	cagttctgctg	aaaagtga		228

<210> 4943

<211> 525

<212> DNA

<213> Enterobacter cloacae

<400> 4943

ccagtagatt	cattctgtca	tgattactcc	agaactaac	ggaggaatca	cattatgacc	60
aaatatttat	atcgagtg	aattgaaatc	tccagcgcaa	aaatccgctg	tgttgattct	120
gtaaaaggtta	ctgcggaata	tacttttctg	attgttttgc	ataaatgcaa	tgggcgggga	180
gagcgtaagc	attttttatg	agtcgctgt	atggcttgta	aagccacggg	ttacagcctc	240
gaaacgaccc	gtactcgtta	cacgctgaat	gcgctgtacc	gcattaatgc	ccaagctgcc	300
cgcaaatgct	cagcatccat	gcaagacgag	cgtttaagga	ctgaaaagcg	ccaagattct	360
gcgtttccag	catgttgca	gtctcatcaa	aaaatggttg	atgcacatcc	ccaacaatcc	420
agtagtaata	attttctgga	aagccttaag	tcttctttaa	cccaccagcg	tcagtttaagt	480
gataagcagc	tggcagttgc	cgcccgcat	ttagggtatc	atttaa		525

<210> 4944

<211> 1206

<212> DNA

<213> Enterobacter cloacae

<400> 4944

atcgctcatc	cattaaaggtt	aaaaatgaag	ctatttttcaa	tttcatcccg	ggatacaagc	60
atggacggcg	tgtttttatat	ccaggccagt	actaaacaac	aggcaaggtta	catatttagt	120
accctttccc	ogaagccat	tgcgaaactgc	cagcttacag	atttgacgaa	tgagacgggc	180
gtcccttcca	taagcccat	ttcgctttca	cttaaccctc	gtgcgatcaa	ttccagatcc	240
cgaaaccggg	aactcgctat	ggccacggat	ggttcttaacc	tgatctgtgc	agtcacggat	300
gagcataccg	gtcagatagt	tgacttttgc	gataaccttg	gacagcagct	taaggatccg	360
gacgacaaaa	ggccctgggt	taagctcatt	aattctgaat	gcgctttgct	taattctccg	420
cgctctctgc	ccgttctgct	tgagccggat	acaccggcac	aatttgaat	ctttgtgcca	480
gctccgggaag	atggagaaca	cgacacggtc	atagccagcg	ttgttaagaa	atgtttcgga	540
gatgaatgcc	ggtaacaggt	aacggacaaa	gcttttgcaa	gtgcggaaaa	gccagtcac	600
aggctgggaag	ctcatttcaa	tgacaaacgc	gaaaagggtt	tagaaactgac	cttttctcgt	660
ttcaactctt	cactctcagc	gtccgtgcac	gaaaaccagc	taagtcagat	tttgttaact	720
tgcaagact	ttggcgtaag	gcttcagggt	agagcagggg	catctgcca	cgtaaatatg	780
cgagtgctt	accgtgctc	tgctcatgtt	ggcaccggct	ctcgcccgag	tgatgacagt	840
gatgtcgagg	tcctatacct	gttaaaagaa	gaaaaagatg	ttaaagaggct	gcttgataag	900
tcaaccaggg	gaagtgaagt	tgtaaccggc	aggcaccggc	agcagtttaa	cggggtctta	960
gtgaatgcca	caccgcac	ggccactact	gggttctatt	acctttcgca	tgattttccg	1020
gaagggcagt	ttatgatgac	agccgaggtg	ttgcagtttg	gaattacac	agcgcggtatt	1080
tactacatg	aaacactgga	cggttaccgg	tttatogtga	cagcgtttga	gaagggattta	1140
atgaacgggt	tgagggaggt	tatagctgca	aatgaggaa	attttaagta	ttaccgctgg	1200
tcttag						1206

<210> 4945
 <211> 282
 <212> DNA
 <213> Enterobacter cloacae

<400> 4945
 cctcaaaactg tgcgtggagc acaaatgtct gaaaaaacct ttatcggttaa aatccagaac 60
 cgaaacggcg accatgagaa tagctatgtt cggttactcg tcagcgattg tgagaaaaat 120
 cgttcgcaga cggcaactcat ttcagagtgc catggcgagc ttgaacagct gagttttgaa 180
 gacggtgggg tttaacgacta caacggcgaa aatcaactaca gtgtcaggag ctgcgtggag 240
 gttgtccacg aagacgttgc aactttgcaa cgtctccttt aa 282

<210> 4946
 <211> 441
 <212> DNA
 <213> Enterobacter cloacae

<400> 4946
 tcattatcct acacttcaaa aatattcatt attttttctt ctgacctatt agccagaatt 60
 ctcgattcgg tatcatttac ttacggtaaa tcttttgaaa acgaggtaaa tggcatgcat 120
 tctcaggatc ctatcacgaa attaaccagc acgttgcaac gcgacgatgg ttctcaggtt 180
 cgtattgtag cgcagcgggg atatggaagt gggcttacag cctcgcttga tgtgtacgtt 240
 ctccgtcgtg attcctctga aagcaactgg tcactgtgag gaaaagatcc tcaccacagag 300
 tggagaaaga gtgcagtga tgagtatcag aaatttggac gctctgaat gctcgttat 360
 gccacaccag tggaaattct cagggtggca tccgctattg gccagccaat gagcttcttc 420
 gatggcaacc ctgcgtttta g 441

<210> 4947
 <211> 714
 <212> DNA
 <213> Enterobacter cloacae

<400> 4947
 ataatacagg agtcaactgt ggcagataat tatactcagg cgtcgtttat tattccctgc 60
 actcaggagc aggcacaaaaat ggcacaaagaa gcaatcacat tcgttacoga agcagaaaatt 120
 gcagaaggtg agcgttttgc tgataagcca ctgacagatt gttctctgac tgagaagctg 180
 atccctcagta ttatcgagaa ccacccctgag tatgacctt ctgagccgag ctttggggcaa 240
 cactctccgc cagaactgcaa ttatgaactg ttgttcgcaa cagaagtatc cagcagttggg 300
 ctggcagttt ttcatggaga gaccattgat ctgaccatg caatttgcct cacaactgcc 360
 gtgctctcgg tattcgacct cctggaaatg gtaacaatta ctgctgcatt tacatgcagt 420
 aaaagccgga cagatgaatt tgggggtatg actattctgg tcacaaagga taccacctat 480
 taccagatg gccgtcagtt ttctcgtctc atgaatgagg ctccacaaag cggttatccag 540
 tatgctctgt gtaaaagtgc gcattaccac ggtgagagca gctatgtggc aaagctatgc 600
 ctgagctcgc acgtagcggg ttccagcccag gaggtcgtta acaaacgact gaaggcatgt 660
 gccgggaaag agccagaaga gttcttcaaca cggggctgga aggaaccgcg ctac 714

<210> 4948
 <211> 1635
 <212> DNA
 <213> Enterobacter cloacae

<400> 4948
 cgagctttga cgttgcgggt ttatttttcc ggtctggacc gttatattac gtcagctctg 60
 ctgaaaaagt acgggagcct catctggagc acgaaaaaga gcctggttac cgttgatgac 120
 cgtaccacat cttcgacagg ctttgattat taccgcaaga ctctgaccgt accagcgatg 180
 ggagaagata gcttcacctc cagagaggtg attaccgact tgcaaggga ggaggtctcc 240
 cggcaggatt acccgcttgc aattgaccga acgcctccgg caacgggtac cataagtatt 300
 acgagaaatg ggtggaactt tggcagcgaa gcgatcttca cttcagtaac agccggtatg 360
 cagtacgcca gcgtccaggc actggtcttt aatggaacta gtgataaagg ttccgggtct 420
 gctaatgctg aatatctcat aaccgatgcc gctggagtgg agcgtaaaaa gccagcgga 480
 attaatcacg tggaaggtg cgtaacctgt caagtctgcc acgcaagcag caatgccctg 540

gcaccggaaa	accgctctga	atataaagt	gggatctacc	tttatgacaa	agcgggaaac	600
aggagcgaa	caagcccgcc	aagcgtaatt	gatccgggtta	agcctgacga	tatcatccag	660
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aaccctattt	ccgtacgggt	attaaggaag	aaaagtgaat	ttactgtgt	taacgggttc	780
aaatatggct	ggcgggactc	gaatttccag	acgtccgata	gcacttataa	tatctatact	840
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ggagtgaag	gaattcatca	taactccctc	aacttcactc	cagccccggc	gatggaaaata	960
gccccgaaga	tagtggctaa	agagatgtac	cggagtataa	ccagtgaagt	gttaactcag	1020
gcctcaatca	gcgttaaaac	cgcaccatt	agccgcataa	aggtaaccgc	agaaccccca	1080
ccatacgtgc	aaaagtcca	aacggtaaaa	aatgcagcct	ggtttctgac	tattctctgc	1140
ggacaaagt	catgcgagat	gacggttaac	ttcaactaca	ccagtgaaca	aggatttgag	1200
tatctgcctc	tttactcggg	aaaaatgggt	gacagcatat	tccatgcgct	tgctggtaat	1260
tttaccgtta	tctgggtata	caaccaccgc	gtggttaagt	tccatcaggt	aaacaaagcc	1320
tccaagacaa	tcactatgac	ggccaccgat	aatgatccgc	tcaacgcctg	gaacatcagc	1380
tactgggata	ccaaagtctt	cgaagccacc	cttaaaaaat	ccccggggga	aactttcacc	1440
ctgaagccct	tgactctcag	tgaagcgat	tataaaaacca	aaaacgccac	tttctcatic	1500
gctggtctac	cggacgggga	ttatacgtt	gttagcgtgt	ctgccacgga	tcttggtggg	1560
aaactcagga	accaaaccgc	ttatggcccc	gctgaaaatt	cactcaacgc	tcccggttat	1620
tgctgtcacc	tttaa					1635

<210> 4949

<211> 291

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (69)

<400> 4949

aacgcttcag	tgtgtcaccc	agcctttaac	gaagggcatt	ggttggtcat	tgacagacag	60
gataaaccgt	acattgaagt	ggtctgtatt	ctctctttag	cttcagaaag	eggagagcag	120
catattgatg	tttttattaa	tatgttgcga	gaccggatgt	atgatgttat	ttcacgaaac	180
attgaaacca	aaacctttgc	gacgctttat	aaatacatgt	aacgtatacc	ttttactccg	240
ggtgtaaa	aagaattctt	gagcagttat	gagaacatca	attttagtta	a	291

<210> 4950

<211> 333

<212> DNA

<213> Enterobacter cloacae

<400> 4950

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gatattcccg	gcggcatccg	ggtagcagca	tgcatttcac	gggttatccg	tgacgttaac	180
ggcaatattc	ctcgtgtgtg	gctggaanaa	ccgaagcgta	tggtcgagcg	aggagttaag	240
tgggcgacga	gtctgcctga	ggggctttac	tttaacatcc	aggggaaacg	acatgcgaaa	300
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<210> 4951

<211> 801

<212> DNA

<213> Enterobacter cloacae

<400> 4951

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actgatccct	ctggggatgc	ttccctgata	tcgcttcagc	tcgctgtggg	acctaacctc	300
gaaaagtgca	cccttgctatt	caacgcgcta	tccaaggatg	tctttattcc	tgaatacccc	360

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agaattcttc ccaatactga cgaatcgagg cagatgtatc atctggaggc tctggctatt 420
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ggagttacgg tccagcctgg tgaactaaaa tccgtgtcac tggatctctg taatgggtgaa 720
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<210> 4952

<211> 453

<212> DNA

<213> *Enterobacter cloacae*

<400> 4952

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aacctttcgaa agggagcgtt ctacatgca aaaaatttctg ctagccaggc cagcggagcg 180
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gtaattggca ggacccaagg actcctgcaa agcgaagcaa ttgacccaaa ctgctgataag 300
caataccggg aaaaaccgta ttctcgccat ttatctcag taaccgatgc caataccaaa 360
gccctgaaaa aaacctgcaa ggtaatgaaa acatatatca aagagcaggc atttaagcct 420
aacacctggg ggcacagttt cattaagggt tga

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<210> 4953

<211> 648

<212> DNA

<213> *Enterobacter cloacae*

<400> 4953

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gataaaggga tgagcctcgc ccttcgtgcc gagtatacag gtaatacaga cgagtttact 180
ccgcccggta gatatcggcg ttgtcccaac ggctgggtag tgggtgatgc caataccccc 240
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ggctcttggtc tggggatggt gcttcacgoc attcttcaaa aagaagatgt aacctatgta 360
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gataagctgg aaattaagta ccgggacatc tgtgaatggc agggcctcgt gggcaggagg 600
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<210> 4954

<211> 390

<212> DNA

<213> *Enterobacter cloacae*

<400> 4954

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aattctcagg gtggcatccg ctattggcca gccaatgagc ttccctgatg gcaaccctgc 60
gttttagccc gaacctctgc gacgcctttt aaaccggcgt cattcttttt acgagcaaca 120
gacggagaaa aatgaactct gaacgaacga agcagcagcg cagcaacggc agatttgagc 180
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gaagccgact cccctgggta tgcagaggag gctttccggc atcatattgc tgacagtgcg 300
gacgacttag aaaaggtgat tatagtttcc tctacaagtt tgcgttcagc tcacagcagt 360
cgcgtaattt gtcggcctgc cgtgaagtaa

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<210> 4955

<211> 240

<212> DNA

<213> *Enterobacter cloacae*

<400> 4955
 aacatgagat taacctatga acaccagcct acattttggg atttcagggtc tacacgggtat 60
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 ctgtgtatcc ctgaaaaaaa ggtatcacatg gcttattata ctgattttatc tataaattat 180
 ttactcagtg tataccatgt atacctttct coatatattat ctgaaacttca ttctttatga 240

<210> 4956
 <211> 222
 <212> DNA
 <213> Enterobacter cloacae

<400> 4956
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 gaacgagcgc aacagacaaga ttggtgatgag tctctagccg catggccttaa gagaattatt 180
 cgcaagggaac tccagcagcg ttggtatcgag ccaaagggct ga 222

<210> 4957
 <211> 288
 <212> DNA
 <213> Enterobacter cloacae

<400> 4957
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 ggcaaaaccg tattcagttt tccggccggc ggccgctatc ttggtggacac gtcgaacggg 180
 ttacagtcca tgcgcgccct tatggacaac gagatacttt tcacagtga gagtgcgcgcg 240
 cgctttctga agaaaaattg ttatcaggta atcccgccag cgtcgtga 288

<210> 4958
 <211> 297
 <212> DNA
 <213> Enterobacter cloacae

<400> 4958
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 acgaccagcg caggccaggc gctggaatac agccgtcagg cgcttgccgt tctcgatatg 180
 tggatagata cactggcgcc ggatgatgaa atggaagact ttctgtgtcg gccggttcac 240
 agcctggcca gtcaggcacc ggaatatctg gtgaaagcca gggaggtcag gccatga 297

<210> 4959
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 4959
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 ctgaaaacca ttcaggagag ggagcgccag aagtcgggca tggggatcgc gccgtcaate 180
 catgctgttg cgcgaaggt atttgatcgc ggactatcaa aaatggaggc tggccagtga 240

<210> 4960
 <211> 1434
 <212> DNA
 <213> Enterobacter cloacae

<400> 4960
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 atgcttaact agccctttgg ctgcatacca gttcgtctga gttccttgag aataattctc 120
 ttaagccatg cggctagaga ctcatcacca tcttctgttt gcgctcgttc catcatctct 180

cgaagctctg	gatcaagcct	aaattggaat	ggagattg	ctcgtctctc	gtttttgtgt	240
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gaaatgaaaa	agacaacgcc	ccgaagtgcg	ggaacacttt	cagggcgctc	aacaaaaacg	360
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ggcggtttct	caacctgggt	gaattcacaa	atcagatcgt	caatgttact	gcttccaccg	480
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<210> 4961

<211> 372

<212> DNA

<213> Enterobacter cloacae

<400> 4961

acgcaaaaag	aaaaaaaagc	cgcaatcagc	aagaagctga	gtcgcgcttt	cgctgatgaa	60
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ctcgcgaagt	actttcacca	ttctgtcata	gccattcttc	tgctgcttga	gttcaagatg	180
aaaaggacgc	ttaatcagct	gaccctgggt	attcagcagc	cactccccgc	tgataacaac	240
ggcaccatca	tagcggccat	ggaatccgt	caagttaaac	ttcagagtgt	ctcgatcgct	300
tcccagaggc	tgcgaggcaa	cgaccaaac	ggggagctgg	ctcgctcagat	tcgcaccagg	360
cgattatgct	ag					372

<210> 4962

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 4962

aatcgaaagg	acgcagctcg	ctcggttcgg	tactgtacag	gtatattaat	gagcagacga	60
aagtttttaa	tattgtggca	tatttatcgc	ttttcatatc	tgtagatatt	tattgctgtt	120
tttgcgtctg	tgccagaagt	aaagctgttc	gattaccctg	gttttaaat	cggattttatt	180
gatattgaac	ggtgggatat	ctattactcg	atttttcgca	tgtaacaac	agtaataata	240
aacttctgt	tatttttatt	aactttccgt	tttacctcta	aaacaaaaaa	gaatga	297

<210> 4963

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 4963

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gtgactgtga	catcagggtt	agaagtgcga	ttactggaaa	ttccggtcgc	cgtaatatca	180
atgattgttg	agccactcat	agttgcccat	tga			213

<210> 4964

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 4964

cccacggtaa	tcgtcaagcg	agatattgat	aaggcccttt	ctcacttttt	cagtaataac	60
cgatcgccat	accgatataa	aaaaattggg	gagccacggc	tgctctctcg	tggttatgcg	120
cgaatcattc	actcccataa	ttgcgtagcc	tcaactattg	gctcggagca	tatttctggc	180
aaaacaattt	ctttacctgc	ggggaagact	gcgcacatat	cgactactcc	gtaa	234

<210> 4965

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 4965

cacacagatg	atcctgtggt	cagtgaaaaa	acgaaatcaa	cacgttggtg	tcattaccgc	60
ctgtgcgcag	gaaagctata	tataaacgtc	gaattcgcgc	ctaaatcacc	atgtcagagt	120
gttattatca	ttattcgtat	taataacgat	acaccggtg	aacaattcgc	ggaattactt	180
caggcggcat	aa					192

<210> 4966

<211> 495

<212> DNA

<213> Enterobacter cloacae

<400> 4966

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atccttttga	tatcaacggt	cgcgtataac	tctctgcagc	gttctgatga	atggcgatgg	180
gttgagcaga	caaggtttcg	aaaaaatgac	tcgctacagt	gcaccggcag	accgaaaccg	240
acgatcacac	ttgctggcaa	aaccctatgc	ttatttcttg	acggtgcagc	cgctcgggcag	300
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gggtgaagtga	tgggctactg	gacgataaac	gcgcctctctg	agaaaccagac	atcgtttctc	420
gcgaagggag	gcgcaaaagt	gcaggagtgt	tcgtgtgtgc	ttaaaatacta	cggagaaaac	480
ctgacagcat	cataa					495

<210> 4967

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 4967

ttattattga	ggtttaaaat	gacagattca	ttacttgaaa	caatcgaaat	cccttttatct	60
cgctccatgt	aaattgacgg	cgtggcgcat	gataaaattaa	ctatgttcga	gccaaaaactg	120
cgcgataaaa	ttctctacag	taaaagataaa	gggacggagg	atgaaaaaaag	cgtctcgatg	180
attgcacgct	tattaaacgt	aaaggatacg	gacctaatga	atttgccatc	ctgtgatttt	240
gcgcgcctgg	aggacgcgtt	taattgaaatg	gtaaaaggacc	cagtcgatcg	gaacatgaaa	300
ttgttctcat	aa					312

<210> 4968

<211> 1068

<212> DNA

<213> Enterobacter cloacae

<400> 4968

ggctacgcaa	ttatgggagt	gaatgattcg	cgcataaaca	caggagagca	gcggtggctc	60
cccaattttt	ttatatcggt	aggcgatacg	gatattactg	aaaaagttag	aaagggcctt	120
atcaatatct	cgcttgacga	ttacggtggg	tcaaaccaagc	aaacggatca	gattaaagtc	180
cgcatagtgt	cagaatcgct	gcgtataacc	gccaggggcg	tcaaaagtac	cctcgggctt	240
gggttcgcta	ctcagatcgt	taataaggcg	gtgtacgtcg	ttgacggcgg	ctcaagcggg	300
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ctgagcactg	tgcagagcaa	aaagaccgg	agctggaccg	gtaacaccct	cgggcagactt	420
cttgcaaaag	tagcaaaacga	caacgggctt	acggcgcggtg	tgctcgcga	gttcgcgggg	480
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atcacgacaa	aagggtttgg	ccccgacgaa	gaccggagct	ggacgatcaa	cacgctgaac	1020
atgacgctgc	gtgagagcgg	cttttcagta	cgactacagc	tggaataa		1068

<210> 4969

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 4969

gtcacagtc	acattagctc	gctcctttcc	atcaagaata	acgtgtatat	cgggttcttt	60
tcggggagac	ggtggttcaa	acgaagattc	atggtgtgtc	gcaaccccca	taaattccgg	120
ctggtttatg	cttcatacgc	gaaacatgaa	cgggacattt	tcttttatta	taaaaggagt	180
ctgagtgttt	tattttag					198

<210> 4970

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 4970

gggttggtcg	cggaaggcca	tagcagttac	ctcatcatca	gaaatataag	atgcatttta	60
aatgcattct	taagtggata	ctataaccct	ttagaggcaa	gggtgaaaac	gagaaaggga	120
tcacaaaaaa	agcatgcttt	taacttgctg	attgaatgca	gaaaagggtc	ttcgaaagtt	180
tttaaaaaag	gagaaaacgt	aaacaaccgc	ccgcgcgtgc	cgatagatac	aggtagacaa	240
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<210> 4971

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 4971

agaaaacagca	ataaacagac	ggcggtttcaa	cggtatatcc	tcagggtcagt	aaaaatcgat	60
gaccttttta	cgggagttct	gatgtcgttc	cctgccttaa	ttgcaaaaaa	atgtgacaga	120
acgcagattt	tttcggaaac	aatctcgcaa	atttcttgcc	tgacggtgct	ttttgttcgg	180
actgtctacc	ccaatcgttt	accatag				207

<210> 4972

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 4972

cgaagagctt	ccgcaaccgc	gttcctcagt	acgaagacgt	cgcgtaagac	tgcgtcggtt	60
ggcggtctac	tcttaccgga	cctaataatc	ccgcaggccc	gcgtaagcga	agcgcacatg	120
ggcaaaaaaa	aagcgggaga	catgcctccc	ggcttttttg	taccgcgtat	tcagacaatc	180
tcttgccgat	actggaacag	cgcttttcagc	agcgctcgtc	tctcagcatt	cccttcatac	240
tga						243

<210> 4973

<211> 213

<212> DNA
<213> *Enterobacter cloacae*

<400> 4973
tcattggaaca aaaaagtctgg ggcgcgcgga gagtcagaca ccagtaattct catcctgtta 60
aaagtgtgacg tctctatggt aaacgattgg ggtgagcagt ccgaacaaaa agcacccgtca 120
ggcaagaaat ttgcgagatt tgttccgaaa aaactctgcgt tctgtcacat ttttttgcaa 180
ttaaggcagg taacgacatc agaactcccc taa 213

<210> 4974
<211> 225
<212> DNA
<213> *Enterobacter cloacae*

<400> 4974
gcatttataa tgcaaaaatt cccgttcaaa ggcattaatc tttgcctgaa tgaggggatt 60
aatggcacat tagcaaacacc ccgtcgtcgt aaaaatctcg tatgaagaca gtttgttgag 120
gcagatcag aaaaaactga tttgtcact tctctggtta ctggcttttt ccagcgccac 180
cgcgccattc gcagcaattc cgcagaaaaa tctgtattga actga 225

<210> 4975
<211> 204
<212> DNA
<213> *Enterobacter cloacae*

<400> 4975
gacaatatgg agcgcaacgc ccctcgttg acgttgcatt caccctgcggg agtaatatgg 60
cacctaacat ggtcggagtt tattgacttc gctcaattaa aatgtgcttt tgaagccgac 120
ctctgctcag aaaaaactga atttacagcc atttactacg atgcaaccac catgcaacac 180
ccccaattcaa aaccactaac atga 204

<210> 4976
<211> 339
<212> DNA
<213> *Enterobacter cloacae*

<400> 4976
tttaattggt taaccgggaa tatgtctgat tctgtgaata ctgaaaccgc ctccgcgcag 60
gggcagacca ccgtactgga aaaagagggc gtttacgcct ccctgtttga aaaaatacaac 120
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aaatccggtt accagtgttg tcgcagcggg atggcagatg atgcaatgcg cagattccgg 300
gcaaatgcag ctggccgcgt ccttggctcc tataactga 339

<210> 4977
<211> 654
<212> DNA
<213> *Enterobacter cloacae*

<400> 4977
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gaagaggcca aatcactggc gcaacagtgg cacacgcaga ttacgcttgc cggccttgca 360
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ctgaacgcgc ttgatgaaca gaagggaag tacatgacgg tgagtgaact gaaatcagcc 480
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<210> 4978
 <211> 324
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4978
 atgcaacgctc aagcgatggg cgttcgcgtc catattgtct taacttcottt ttttgaatta 60
 ctgcatagca caattgattc gtacgacgcc gacttcatag tcggctttttt ttgacctcct 120
 gattatctgc gtctaccctt taggggtcag caccctaata tggaggaaaa gatgagtatt 180
 ctacttgccc tgcaacgctt gaacacctgg cagtcgcgac cgggtgcccac cgatccgacg 240
 ccgatacccg atcctgtccc agctccgcag ccgatgcggg atccgcgcgc cgatgaagaa 300
 ccgattaaat tgtcgcatcg ttag 324

<210> 4979
 <211> 534
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4979
 agcaccaaaa agaataatga gactggcgaa aaacacggag ttgacatgtc agcaagagag 60
 cgttttttta agaaagtga acagagatc ggggacaaac cgatctatgt taatacggct 120
 gaggccgaag tcaggcggtt ttgtgagcgg atggaggatc ttgcgcagca aatcattaca 180
 tggtttgaa gtctcgttat tgaatatatt ttatctaaaa aacatatcac cgatttaagt 240
 acggttggct acagccttat tagcggtata tgtcgttatg ctattacgac gatcattttg 300
 caaaatgggg atcgcagcgt caccattatg ccagaacagg tgatcagggg gtccggagaag 360
 ggggtgtgtg cgatgagtar taatgtcccc gatagtctgt cggggggcag gatattccat 420
 ttaagcatgt cgccctgaac aggcctgggtat attcgtgcgc ggcatcaaag tgcaaaagag 480
 aatatctcca tgactgagga ctgttttttc caggctatcg actgtctggc ctga 534

<210> 4980
 <211> 309
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4980
 agtaaatatc cgttttaaat ctggaagatt tttgacctga actgtgtaaa aatgagcaag 60
 ctcaactttc gtagggtgaa taaaaggaga aaaattgatg agtaccgcat tgaagttttc 120
 gctgtttacc accattgttg ttcttgctct gattgtgtcc ggtggtttaa ccgtgcgaact 180
 gcactgattc aggcggaggg aqaaccttct cctctctttg ccctattgtt tacctctccg 240
 gcaaaaaatct tttgcaaaa tgtlaaactc tcattttttg tgatttgatg catgcttttg 300
 acttcttag 309

<210> 4981
 <211> 231
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4981
 catcatgcta aagatccatc actacaggag ataaaaatga aagcgatttc attcgtagaa 60
 gcgaagagaca ttattggcgg cgcgttaaac cgcgtcgcgt gtctgggttaa aggtgcacag 120
 ctggggttacg acactggcgc cagcatcatg ggcacgggtt gcgggtgtgt tggcgagatt 180
 ctgggtggcg caatgggctt cctgggcgcg ctgggttgga gctacaaacta a 231

<210> 4982
 <211> 489
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 4982
 aatatgtcaa ggactaaaaa gagtgtactg ttcagtatcg tactggcgct gtctgtcatc 60

```

gcgttggttat ggaatctattt taccagaacg caggatgagg ggtttggctg ccagtcagat 120
accatttccct ggaaaaacctt ttctacgggt gactcaaccg atatgtcgct aaccacgctt 180
ttcctgttta acaacaaaga tgtttgtgacg gttattcata aaggcgtgct caagaaagaa 240
ggcaaaaagct acctgattga cegaaattac acgctcatcg tggaaagaag cgaatggaagc 300
aataatctttt atattaaagga taaaaagctg aataaatctg aagatgatcg gcgcgcggat 360
ggcgttgtaa acgaaatggt acttgataat atcaacttct tctatattac cagcgtaaaa 420
aaacatgcgt gggttaattaa ggggctgggt ttgcctgtaa tgatgtgtgt ggcgtgcccg 480
acgtcctga
489

```

<210> 4983

<211> 219

<212> DNA

<213> *Enterobacter cloacae*

<400> 4983

```

ctacaactaa ttacagttta caggaaaagt atcatgcaag ttatcgattt caaaaaagca 60
caggccatca tcggttggtt ggatccgttt gtcgccgcta ttcaggggcg aagcgcgggc 120
tataacgcgg gcagccagat gttaggcgcg ctgggcggca ccacgcggcg cgtattcggc 180
ctggtggggcg gcttcacggt cggttttctt agcgccata 219

```

<210> 4984

<211> 234

<212> DNA

<213> *Enterobacter cloacae*

<400> 4984

```

attttaccgc gtaattcttc agcgcgggat ttatcaatat ccacacgct gacgcgccag 60
aagggtcccca tgggtttccc ttccagcacc gtcgcggcgg gtgcgtcgat ttttgccggc 120
tgtgtggaag agtcacacgc ggtcaggagt aaaaaagtcg ccagaacgag ggcgcgtaaa 180
aaagtcatat ccattgggtt ttatcctcat gccaggcgcg caagagtaca cttaa 234

```

<210> 4985

<211> 273

<212> DNA

<213> *Enterobacter cloacae*

<400> 4985

```

cgggtcccacg gagtggcaat ctactcccat gaaaaaatc tgtcaacgga cccgggggca 60
gaaagcagca ttctcagcgc agcgcaacgc attatttgta gtgcgcgcaa agaaagcaga 120
aaagcagaag aaacgcagaa aggaaggtca tgccctctt ctgggggaga aagggtttat 180
gggggaggaa ctacggtgac aggtagcgcc gggaaacgct ttttgccagt ttctgtaaca 240
ggcgctccag agcgaccgcc agcatcttc tga 273

```

<210> 4986

<211> 249

<212> DNA

<213> *Enterobacter cloacae*

<400> 4986

```

ttcaatcttc atagtcttgt tatcgggcga tgccctgctg aacagataat acaaatccca 60
tgccaacttt ttactctatt gattttaact aatgtgattt atatttatcc atccagcgcc 120
tattctcacc tgggtgaatat cactaaggag tgggttaatt catcatggct gaatataaag 180
ataatttgtt tggcgaaagc aacagcttcc tgggaagtgt tgaacaggtt tcgcgcctcg 240
cgccgctga
249

```

<210> 4987

<211> 342

<212> DNA

<213> *Enterobacter cloacae*

<400> 4987

aaacccctttgc	gccccttcaac	agccactctgc	ctcatgtatg	tgcgctgtgt	gcggtatttcg	60
ccacccactg	acagcccttg	gaacagacgt	gccagcaaca	gcaacgcctg	tgccattgtt	120
ccgattgtgt	catatccggg	caagcaggca	atcaccagcg	agccgcagca	catcatgcac	180
acagagatga	gcattggatg	cttgccgcct	ttcctgtccg	cgatcctgcc	gaacagccat	240
ccgccaattg	gacgcattcg	gaacccggcg	gcaaaaaacg	ctgcggtttg	cagaagctgc	300
gttggtgggt	tcctgtatgg	gaaaaagata	tgcgcaaaag	ag		342

<210> 4988

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 4988

aacaatttta	acaatgggtgc	cgcttttgact	cgctccctttg	attatcaaca	agatttttgc	60
aatatttaatt	ttcgcgaaaca	tcccgaacgg	tatcaggtgg	gccgggggtga	gcagggcgta	120
ttgatggctg	agccttataa	aagcgaaatc	cttccacact	ggcgttataa	aaatgctgaa	180
gtcgacggcg	gttcggcaga	agagatctac	gccctctttg	aagagtaccg	caggaataac	240
gattttgtag	gtatggatat	ggcgcgtaaa	ttcatcacga	tgggatacac	ccgtgcccg	300
cgatagccca	atcataaagg	cggaaaaaag	tatgatgaga	agcgccaggt	caaaaccttc	360
gatcacgata	cagtaaaagg	agaggccgct	gcggtattca	aaacgtgctg	ggataaaatt	420
cgtagccgatg	aagattatct	gcagcgaaaa	aaggctcacc	agcaagcggtg	gggataa	477

<210> 4989

<211> 461

<212> DNA

<213> Enterobacter cloacae

<400> 4989

tatagaaaaa	ggaaatgctg	tatgtctgac	aaaaaccatc	atacgacatg	ggaagaattg	60
cttgaggagt	acttcttcgc	ccgaaccctg	cgctgtgcaa	cagaatggag	ctatccgaag	120
gtttgaaagg	ggttccctgaa	attcatgggt	gcaggcaaaa	ctccattaat	ggttactcat	180
catgaaatac	tgagatggcg	gcgacatgta	ctcagagaaa	agcaacaatc	ggcgacagcc	240
tggaaacaata	aaattgcaca	tctcaggggc	ctctataact	atgcgatgga	aagtgggtta	300
ttgcctgagg	gtagaaatcc	tttcaacaat	tgcaccgtac	agcgggagca	aaagaaaaag	360
cgcacgltta	cccgctctca	gctcaaccgc	ctttatctga	taatgcagca	ggctgaaatt	420
gaatcccaac	gaagtgtctc	ccagcgggcag	agatcacgct	c		461

<210> 4990

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 4990

gagttttttt	ccccaaaaac	ccaattttcc	cccttggggg	ggggcctgaa	attaggtccc	60
aaggggtatg	gctgttcgcc	atttaaaagt	gtacgcgagc	tgggtttaga	acgtcgtgag	120
acagttcgtt	ccatattctgc	cgtagggcgt	ggagaattga	gggggggttc	tcctagtacg	180
agaggaccgg	agtgagcgca	tcactgggtg	tcggtgtgtc	atgccaatgt	cactgcccgg	240
tag						243

<210> 4991

<211> 198

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (133)

<400> 4991

ggaataaaag	cgatgccatt	aagcgacaaa	cagctggcag	ctcaaaaaaa	ctgttcctat	60
gtgtctggcag	agaaaactgg	gcagctgata	ttagcgggta	aatatgtccc	aggtagcacc	120

ctggcccccag agnccgggaa aagatggagc tgggagatca gtttggcggt agccgtacag 180
ccgttcgcga agcggtaa 198

<210> 4992

<211> 342

<212> DNA

<213> *Enterobacter cloacae*

<400> 4992

aaaaactcaa ataattgaat cgccaacgga ggaataatga atgtacatct gaaatatgat 60
acgataaaag actatcacct tgattggcta acgccctgctg gcgactatcc taattcagcg 120
gttatgtctcg taggtttccg tgatggggcgc tggattattg ttcaagagtt cggaaatgat 180
tatagctgct tcgagggcgt totgaagaat ggtgatgac ttaatacggg gccataattc 240
tattccgact tagaaagcgt agcgggttgc gcttttgcca tgatgaagca gatataatcc 300
cagtagcaag atagcacgtt agaagaattc ctgcctggat aa 342

<210> 4993

<211> 408

<212> DNA

<213> *Enterobacter cloacae*

<400> 4993

gaagacaata ccaggtcaga caacaaggct gttagcatga tcgttggaag caacggaagc 60
acctttgaaa aaggctcgga gcaactataaa atccatcagc aatgcacaca aataaacctac 120
tggtatcttta aaatgaaagt gaaagagttg atcgccatgc tgaacgtaag agaccctgag 180
gcaattgttc tgatttcccg ctatgaaacg atcggcgcca cggaaagtcgc agaagctgat 240
ttgctcaatt atatgcagtc aatatgctta gaacaggctg ataattctac aggaaccgt 300
aaagtgtgtt ctccgggtgg tgaagattca gtttggttag gctggaaaga tgattaccgt 360
acaaagggtg ttttagaaga tgcccaaat cctgatcaag atgaatga 408

<210> 4994

<211> 357

<212> DNA

<213> *Enterobacter cloacae*

<400> 4994

gttaaaatca cctataatca atacctactg gacgagctca tggctgacac ctacctccc 60
ccgggcttta aaaaatgcaa atcatgtcag caagttaaac cctttgaaca gtttggaaaa 120
gagctcaag gcaagtttgg cctcaagagt aaatgccgag cgtgtattag cgagaaaaac 180
aaaaacgtacg cagcaggccc aggggcgcga gtaaaagcgc aaaaataatg gacccaccag 240
gcagaaaaaca agactgagct cgcggagaaa atgcgcgtta agcgtgcgaa agaaaaattt 300
ggtgatcgct ataattccta cctcgcttct ttagagtcca tgaaaaaact caaataa 357

<210> 4995

<211> 1461

<212> DNA

<213> *Enterobacter cloacae*

<400> 4995

aacatgaagc tcactattga tgggtgtctcg taocgacctg tctgtaatgc aggggctcgt 60
attggcattg ccataacaac gcataatcgc gctgaogcat tgaagcgagc tctggcgcag 120
catcagcagc ttttaccgca aggggcgcgt gtggctgctca tagatgatgg ttcaaaacct 180
coagcggaa gtttcgaaga cgtgcagctg ctccgccatg aaacatcatc cggcatttgtt 240
gcttcgaaga acgccagttt aaccgcgcgt atggacgcgc ggtgtgagca totattcctt 300
tgggcagcgt acgcccgtgc catcgctgat aactggcact tgccatacat cgaattacc 360
gaaccgcacc ttgtctacca gtttctcgat ctggcaggaa cgaataagct gaagatgatg 420
gcgatccctg accgggatga taagcacatc gcttacacgc ggcagcgcg cgtgatgctg 480
tattaccacc gcagcgcctat cgagaaggtt ggccggtttc atcccgctta ccgtcgccgc 540
atgtacgaac acagcgacct cgcctgcgc atccataatg ctggccctgac gacatgggct 600
tacggtgatg tggctggctc agaaaagcgt atccattctc tcgatgagca tgaagccgta 660
gagcgttcgg taccgcgtcc cgaccgacag gcgctggtgg aacgtaacgt gaagatccac 720

aacgaacggc	gtgatgccgg	gtttactggt	tacgctgaat	accgccagca	gcgcgatgta	780
gttatccaaa	cgtgctctac	cagtcagcct	gaccgcagc	gcggcacgaa	aatggcgccc	840
tcgcctgaca	tgctgagcaa	atggcgcgcc	tcgcttcgcc	agtggtggcg	tatagcgctg	900
gtggatgaat	tactgaacgc	cccgcccgat	gttgagctgt	atctcgtacc	tgacgtgaag	960
atgaatgtct	acttcgcgtg	ctggctgcac	atctggcagc	acctgcgaga	tcaccctgaa	1020
taccgggtcg	ctgggtgtac	tgatggcacc	gatgtcgaaa	tgctccgcgc	accgtgggaa	1080
gaaatgcagc	ccgggactgt	ttacgtcggt	tctgaaccga	agacctacgc	cgcacctgg	1140
gcgaacacga	atcactctga	gcgtatctat	caggaaattca	tgaatcgca	ccgcggcgat	1200
gtgatgctta	acgctggaact	ctggggcggt	acacgcgctg	atgtcatggc	gtttgctcac	1260
ggcatcatcc	gtctttacta	ccggatcgag	agctatcgtt	tctggaagaa	agaacaggct	1320
ggcgccgcgg	tgggggacat	gctggcgctt	ggtattgtcg	ctcattcatt	cgcaggaaaa	1380
gtgattaccg	gacctcaggt	gcacaccgtt	tttaaaactg	atgggatcgg	aaaagataat	1440
gcctggtgga	aacataaata	g				1461

<210> 4996

<211> 813

<212> DNA

<213> Enterobacter cloacae

<400> 4996

gcgtcgatcc	aactcaatca	attttcctat	caatacgaca	acgaattcct	ttttttaacc	60
tcactcgata	ctccataccg	tttgaagagt	gtagactctg	gacgtttgtg	attgactaat	120
ccatttttcaa	tttcttttaa	tgtatggagt	agagtaaatg	gaattctcac	tttcgataatc	180
acttgcocac	attgcctgag	ggaaaatgca	gtcctggaag	gatggggcca	actgcgaata	240
aacgcgggtc	ctttagttaa	tgttgcgttt	agttgtcgaa	gctgctttca	agctggtata	300
gctatggtga	aaatgaataa	tctgtttgtt	ttttcgccct	tgtaaaaatc	caagcagata	360
aaagatgtaa	atgtaatcat	tcttggaaac	ctggaataatc	agttgattga	cgttttcccg	420
aaacctatca	cgctaagtgc	acctgaccac	acacctccc	gtgctgctat	ggotttcgta	480
gaagcgaaag	acaaccttgg	acgaggacgt	ttcgacacat	ctgttatgct	ttgcgcgaaa	540
gtgctggaca	ttgcaacaag	ggaattatta	ggaatgact	caaaagatga	aaaattgggtc	600
aagcgaattt	ctatgtttga	tggaaggggg	ctaattacag	accaaatgaa	ggaattggg	660
catatagtcc	gaattgatcc	caatggtgct	gttcattccg	atgaagaatt	ctcaaaagaa	720
gatgctcagg	agattgattg	tttaccgcaa	gtattttctc	tatatgcatt	cacattgcct	780
gatattgtag	acaaacagaa	acaaatcaaa	taa			813

<210> 4997

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 4997

aaaagccgca	caatggcgcc	tactgtctgt	atatcagggt	gtaacttcgc	tttaaccggg	60
gttaattgtaa	gcattcagcc	cgtcagtggt	gggacactga	cgcactctgg	cacggaggaa	120
tggtctgata	ctctgtataa	ggaaatgaaa	tgcttttttt	gcacaaaaga	atgcattcta	180
atcaagggtga	tacogtltgt	gtag				204

<210> 4998

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 4998

acaaatcgat	tttaacgata	ctaactgggtc	cttgataaaa	caatgaccaa	cttgccagaa	60
cggcaaaaga	caaccgaaat	cagactaatc	tggacaggag	cgtccacatt	agcaccgatg	120
gagattttcg	caagagccaa	cttttgcgtt	tacaaaattag	ttttacttta	taacccattc	180
acattgtctc	ga					192

<210> 4999

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 4999
 ggcaggcatt gtccccgat taaaccgacg caccagcgtc gacgtttcag ggtgetttaa 60
 acgggggttt aagagagttt cggtagagatt cgcctgcgtc attgcgttgc ctccatggat 120
 acgtcatatg aagaccattg taacgcgttg cagggtaaaa agaacaacgc ccggcataac 180
 cggcggtgta aagttacgta ctga 240

<210> 5000

<211> 279

<212> DNA

<213> *Enterobacter cloacae*

<400> 5000
 tgcgggtcat cgcgatgggc ggatgcggcg cacagcaata cggcagcgct gagtgcgctg 60
 ggcgcaagca gaggtctgac tgataaccga agcggcttca tgaccatgt gattgaaaaa 120
 atcgcttttc cctccatggg gacgcatat tccacgatga acagcgcgct gccagtcac 180
 tcttcaggga ttcccatacc catcagcgac aacatggttg gcgcgatgtc ggaaagcttg 240
 ccgccttcca ctgctttcac tgatttatca cccacataa 279

<210> 5001

<211> 201

<212> DNA

<213> *Enterobacter cloacae*

<400> 5001
 aaaaaccagg acaggagtat acctgtgcgc tgtggcaaat acagccagcg acataaagct 60
 aatcatattt ctgcggcatg ccacgtaaaa aaagcctcaa atggcgctga gaacagcctt 120
 gcccccgcgc tttctttgat ctctgcggcg tattttatcg attcagctgt agtaaaatta 180
 cgcaaaaatt ttgtctcttg a 201

<210> 5002

<211> 642

<212> DNA

<213> *Enterobacter cloacae*

<400> 5002
 gtaatatatt acacattgtc gcgttatgga ggtgagatgg agacgttaac cgtacaggca 60
 tatctgaacg aaacatggac ggatatcgct ctcatcaaat atccctggaag tgaaaaaaat 120
 gactggaata ccacgcagtt agactatctt actgagtatg cgattaattt tctcgactat 180
 gatgattttc acgcagtttc agtcaatcac cctgtatcac tcttttttga tgaccatggc 240
 caaccgggct ggctgcgatt tatcgacgat atcattcccg ccggagcaag ccgcgcgtac 300
 tggattaatg cgcctgacat cagtgagtta cccgttgccc agcaaaaatt ctatttgctg 360
 aaattttgca caatgtcccc ttgtgggaaat ttgcgcataa aggaatccgt ccagaatgg 420
 aataaattcg ccagcactaa aacgttttac gttgcggacg tcatcgatcg tgcggccgat 480
 tttctggatt atgcccagga aagagcgcg cgccggggtg gtgcaaccgg tgcgtggcgt 540
 gaagcgccca aacttttgcg gcctgtagt gaaactgat ccatctggat cgatacctgg 600
 caaaacgagc gggataaccg gggacgccta ttatttggtt aa 642

<210> 5003

<211> 183

<212> DNA

<213> *Enterobacter cloacae*

<400> 5003
 aggcgcacat tacgcttact gacgttccgt tttttagtaa cgcgtggcaa tccgcattat 60
 gttatacatt ttcatatccg gaaattttat ccccaagaca atgagttaat ttcatgtatt 120
 catgctaatt atgaattgac tgctacactt acttcgacag acatacgcag gagaggcgaa 180
 tga 183

<210> 5004

<211> 207

<212> DNA
<213> *Enterobacter cloacae*

<400> 5004
cctgatagcg gcttcaatca gctgctggcg ggtcttttga gctctttctt tctttttgcg 60
cgccattacc tgctactcgt tacttacaag attgatacgt tatcaaaagga tattgcccgtg 120
gtcgtgtcag acaaagtatt aaccaaatac cgtgttagtt ttgcacaaaa aaagtcaatt 180
cgtttaattt ataaacctcg tgaataa 207

<210> 5005
<211> 186
<212> DNA
<213> *Enterobacter cloacae*

<400> 5005
gcgaagcgcc atccggcaaa aaagcctggc cctcacccgc agggcttttt tatctccgcc 60
ttgctgaaaa tagcggcgat cgcagacaaa atcataacc ttgattcaca tgcattcttac 120
actctgaac tatttttcgt atggttaggg ttaagcgitt ctgctggcac agtcacggca 180
atataa 186

<210> 5006
<211> 222
<212> DNA
<213> *Enterobacter cloacae*

<400> 5006
tctgtaccca tcccatttag aaagcatggc atcagggttg taaggctgaa ccctaaccaa 60
tcgcgcatt taccagcggc tttatcggct attacggtag atagcaaatc aatcaacgct 120
gtgaagattc ctattatcat tgtgaagata gtgaagagca ttgttagcga catccaacta 180
acagagccgc tacagtcccc caaaaagaga gacaaaagat ga 222

<210> 5007
<211> 537
<212> DNA
<213> *Enterobacter cloacae*

<400> 5007
caaaaagcct tacggcaacc tgggtgccgt aagctgcaag aatgcaataa ggcttataat 60
atgaacaac ttactttcaa cgacctacgc aagcaaaagc cacaagccgc aaattccccc 120
cgcttaagtg ccatcataa tttccacct gaattgagcg acccggtgca cgtctgggt 180
attgctatgg aaccgggaac ttatgttcgc cctcatcgcc acccgcatatc ttttgaactg 240
ctgacatccc ttaccggtcg ctttttggta ttgaactttg atgacctggg taacctgacc 300
cagcgcgctg tgttaggtga ggactgtaaa gtgctggaga tggatgcagg cacctggcat 360
accgtattgt cactggatga aggcggcggt atttttgagg taaaacacgg taggtaccag 420
cctgttgctg atcaagatgc cgccccatgc gcccccgcgc aaaaacgagc gggaactgca 480
gagctgatga aatggtacac acaggcgcaa gttaggtgat gcggatatcc cgggttaa 537

<210> 5008
<211> 393
<212> DNA
<213> *Enterobacter cloacae*

<400> 5008
gacgaggctt caatgacaag tacacttgac ccatcacaca agcaaatgaa aatgtggcgc 60
agagctacgc gttccgaagg tggactcaac gaataccgca actgggttct ggaaaaatag 120
atgagattta cagcatatcg tatccatacc gttatcgtcg aaggtgagcg gaagcatata 180
acagcgcttg atgatgttac cctctgtaac gagtgggcga agcttaaaag agaaaaaat 240
aggctttacg cagcaaatga aaaaatttgc tctggctgce gtgggttttg gttgcgtttg 300
ttaggaaata cactgcatg cagaaaaacc gtcatcttac tgggggtaga tgggaagaat 360
caaaatgatg ccgtgaaagg ggtgatattg taa 393

<210> 5009
 <211> 366
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5009	
ttttcaggcg agccaccggt ttttagaaa ctgtttctatg ggtatgtaag gaagataaatg	60
ttctctgaac gctcagtaca cttaatcaco ttttgtacaa agggcagaagaa tcatcagggc	120
cacgtctggc cgacattgga catagatcca aaacaaaccc cggacgacgc agcatatgcc	180
tggagtaaca ttgtagacga cgccagaagt aatcaggcgg taccggcatt gtcccttgtat	240
tcaggtaatc actggtctcat ggcaaggaa attttaact caaccagaaa tctggagttg	300
tggataatct ctgcggggat ggggttttta aatagtcgag atcggggccct tcttatgagg	360
ttttga	366

<210> 5010
 <211> 234
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5010	
gtatgtcacg ccactaataa tgggtatttta acatttattt attcaccgac tatgtctata	60
gtcaggcatg caatacgttc attctcttta tcccgcgcga ccttcaacct catggaggaa	120
tgcattgtac gtttaagcct gatttcgctt ggtttgttta ttgcgtctgc cattatcgcc	180
agcacagcaa tcggtttatt tacctatgtg gtctgtctgc ccttggcaga atag	234

<210> 5011
 <211> 972
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5011	
acaacaatga atgcgacagg gctgaatata atcaagacgc tgggtgtgat gacggcgggt	60
acctttttca coactctaca caectgggat cattacgatt atgactatca ctggatcctc	120
ggttttttaa ccttcatttc gaccatcgcc acgccgttgt tttttgtggt tgcagggtat	180
ctggacgggc aatcccagaca cggcacgcgc tggcagctgg ataatgatcaa acgctcgtgt	240
atcgtctttc tgttctgggt aacgattttac tacctgtggg aacctatcca gcgcggatat	300
ctgatccagc cctggttctg gttcgcgttt atcgtgattt acacgtttca cccggtgggt	360
gagcggctcg gcagcgcagc aatgctcttt tgcgggggtg ttacgcgcct gtgccttttc	420
tcatacgggt acgatttgcg gtgcggccctc tatcctgatg cccacgtcct ttcattgtgc	480
cgcagatata ccgctgtggc gtgctgtgct ttttatctga caggccagct cttttgcgat	540
cgcagatcgc cggcgtggat cggccgcaaa aacgtgttca gggccgcggt gattgcgata	600
cggttcatct atctcttcac atgggttttac gaacggcact tcttttttgc gctattttaa	660
gcagacagaa acgcttttat cctcaaccga tcgcaaaatt acattctgat tattgccctg	720
gtgattgcgg caaatggcgt gcggtttcgc cgcgaatcgg agttttaaaga gtccgtgctg	780
gcgcgaatta cgaataacga gacgggggtc tatatcatgc actactcggt gtttcacctg	840
ctgacggcgc tcattccggt gacgtccctg agcaccacaa ttgctctgat tgtgcttacg	900
ttgttaactg cggctcgtgt ttcgctgctg atcctgtcca acacagtgc caaaaaagt	960
atcacctctc aa	972

<210> 5012
 <211> 225
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5012	
gacacgctac agcggcaata tccgtgcctc ggtatcgtct ctacggtaaa ctatgcaaga	60
ttacggttca aaactgatgg ttacgggttt tgcaccttta gattaatgac tgagaggatt	120
aaaggtatct catggctgaa tggagcggcg aatatatcag cccatacgtg gagcacggt	180
agaagagtga gcaagtcaag aaaaacacgg tgcctatcc tctga	225

<210> 5013

<211> 354
 <212> DNA
 <213> Enterobacter cloacae

<400> 5013
 tcaatggcggg ccgcaacggg ctggataagc gccgcgagct gtttaacctg gcgaaatcag 60
 ttctggatag aggtgaatgt gggatatcgag acaataatcg ggctggccgc actggatcatt 120
 tccgctatcg ccggcgcttt tggcctaggc catattcgcg gccaccgcaa agcagaagcc 180
 aaagccgacc agcgacgaac cgaagataac gcagcggcaa tggctcgagc agccgaacgc 240
 agggtagaaa caacgaaaaga ggccagcaat gtacagcaga ctgttaatca tatgcctggc 300
 gacgatgttg atcgcgagct gcgtgacgaa tggaaagcgt ccggcggttg ttga 354

<210> 5014
 <211> 507
 <212> DNA
 <213> Enterobacter cloacae

<400> 5014
 tggacgcgag ggcggaagat ggggatcagc ccgacactta acattcctca ggccgcgttc 60
 ctccgcgatg agcacaattt caaagcctat gttgcgggtg tcggttcggg taagacgtgg 120
 gtgggttgtg gcggcatctg taaggggatg tgggagcacc ctaaaatcaa ccagggttat 180
 ttgcacccga cgtaccgca gattcgtgac atcttctacc cgacgatgga agaggtggcc 240
 tttgactggg tcttgaacgt caaaatcaac gaggggaaca aagagggtca cttctacgag 300
 gggagacgat accgcgggac aaccatctcg cgttcgatgg aaaaaccggg ctccgatagtc 360
 ggcttcaaaa tcggtaacgc gatgggtgat gagctggatg tcatggcgat tgctaaagcg 420
 cagcagccct ggcgaaaaat catcgcccgat atgcgtttaca agatcgacgg gttgcgtaac 480
 ggtatccctt taactggacc tgggtga 507

<210> 5015
 <211> 930
 <212> DNA
 <213> Enterobacter cloacae

<400> 5015
 acgatgaaa aatgtaaaa agataggctt cctgagtata aatcgcttag tgttttatta 60
 tttattatct ccatttttat tgaataatt attccggttg ctctactatt aatcttgggt 120
 attctttgtt ttactataaa gaaacaaaaa gcgagaacta aaccacaaga aaatatctat 180
 cactttgtta aggatatgaa cgcttttggg agtattcttg agtcacgttg tttaatgtcg 240
 ttaacaggag ggcgatgtta tgcoacttca atatttaacc cttaaccttg gctaagcttg 300
 ttgacatgga acaatattaa atgtgtttta gttatgaagg ggaagcgaac tggatgtctc 360
 aagcctataa tttagcagta tcgggaagtt ttctctccct ggaagtgggt gaagtgtttt 420
 agaggtgagt atgtcagtaa ggctctgaaa gatttagagt ttaattcgca tgcacaagtct 480
 gtgcgtaatg agtacaaga atacaataga ttgtatgag gcagtcgaaa gagagtgtct 540
 ttttgttact tgtacataga caatctgacg gagtttagaa atgatttgag catatataga 600
 attcaaaaat tctttttttg gattggtgat atatttcttt cagtcttagg ttgatttga 660
 attgtatgag gcaatctgat tttctcggg ttgtgtggtt gcgaatttgt aaactcttta 720
 atgaactaca taagcaaaaa taatgattct ttgcgtacgc atttttcaat ttattgggtg 780
 atatacatat caggtgtttt ttttctgtga ttttaatttg catgcttata ttcatcctg 840
 agaaaaaaat caattacctc gcgtgttgca aggcaaaaaga aaaaatacaa atctaactat 900
 aaatttatgc ttcaatcag tgagaaatga 930

<210> 5016
 <211> 396
 <212> DNA
 <213> Enterobacter cloacae

<400> 5016
 gggggggcga tgtccgatcc attttccggc acgggggctg ccggttttagc tttagaccga 60
 gccagttgct acggtttatt gaccgggaca gactacgggt ttgttttttg tgcatttgca 120
 ggccgcgtat ttatcatcgc gacagcaact gacctgagta tttgtcgccg gctggcctat 180
 ttcgtcgtgt cttatatagt cggcattctt ggaataggtc tggttggttc taaactcgcg 240

tctctggacgg aatatagcga taaaccgctg gatgccatcg gtgcgctgat tgtctctcg	300
ctggccgcttc aaatcccttac gttccctgaac aagcaggaca tccgctcgct ggtggcgctg	360
ataacgcgcc ggggaggttc aggtggtact aaatga	396

<210> 5017
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 5017	
aaacaacatga agaggccagc aatgtacagc agactgttaa tcatatgcct ggcgacgatg	60
ttgatcgcgga gctgcgtgac gaattggaagc gtcccgccggc tgggttgatgc cggttgtgat	120
tgggtgaagc caatctctct gacggatcaa gacatcgacg tctctggacgc ccagacgaag	180
aaagacatcc tggcgcataa caaagcatgg aaagcaaatc gcgggaaaaa ttga	234

<210> 5018
 <211> 456
 <212> DNA
 <213> Enterobacter cloacae

<400> 5018	
caaccgatga aaattcaact tatcacatc gctctgctgg cgacgatttc ttgccatccc	60
tacgcagcgt ttcaggaaag agaatacaat acttggtatc aaaaagatgc tgtactctac	120
gacattaccc agacctcaga gggattgctt gtcgatgata gcatctctca accggggagg	180
gagtcagcta atatgctcgt atcctatatg tccgatgggt gctgtggaga tgagaagggtg	240
cggcttaagt ctaacgggaa ggaatgtgctt gcaactata cttgtgatc agtcggagca	300
gacaggattg aacactttgc agtgaatgat gcaagcaagg tcaatgagat ggttaaccac	360
ctcaagtccg atttcaactt gttgcttcag aacgatata aagtcctgggc tgcatacata	420
aagacgcta agtatggtt agcaccaaaa ttttaa	456

<210> 5019
 <211> 1407
 <212> DNA
 <213> Enterobacter cloacae

<400> 5019	
ctggacctgg gtgagcgcca acacattcac cagcaccacc tgccaataac tcattctgtc	60
tcaaaacaaa ccccgctccg ggggggtttt ttattgcctg gagaaaaatg gctttataac	120
actggcacca tcgccattaa cggaaataca gccaccggca ccggcaccga ctcggacgca	180
ccggccagcc agattcgggt ttggccagagc ttgtttgttc ttctcaacc ggtaacagatg	240
tttcagatca ccgcatcaaa cagtgcgacg tcactgacgg ttacgocctgc cgcgtctcag	300
gcgttgagcg gccagaagt cggcattctt gttactgata gtctctcagt cgaaggcctg	360
gcgcagagca tgtctcaact catcaacgag tacgaagaga acatcggcgc ctgggagacg	420
ttcgccaacca cctcagcaaa ccagaacatc accgtcacc acaacggcgc tctgttaact	480
attccggcga tcggcaaaact gttccagaaa gggagcaatg gggcggtttg agtttctgac	540
ggcgggacgc gagcaacgaa tgcgctgac gctgcacaa acctcggttt gggaacatcc	600
gcgcagagga acgtcggggg agcccccggg aatgtcatgg aagttggagc gtttgggtgt	660
gggttaacta attttcggc caatagtggt gcagacgcta acgacataac ttccaacggt	720
tttagtggtg cgggtggtgc atcgtctgtg aattttcttt atcaatatgc tgggttgctc	780
gctatacaaa ggtaaggtgg cggtgacggt aacggcttta ttgcgcaact tcagattagc	840
ggatcagggt ctaaggccgt tcgagggcga gctgggacca cctgggtctc tgcattgcag	900
gtttacaaca ccggcaatc cacaaaggcg agcatggga cctgaaaagc agcatctccg	960
gtcgtctgta tctgtgcgag tctgataca tgccctgcgt cagatatgtc tgaggatgga	1020
ttttcatggt gcggtctggg caccggcgaat accgaagctg aaggaatcaa aattctccgg	1080
ctcgtatggt gattgttatg gttgactggt tctgcagggc tggcgtctga aggatggcag	1140
ttactcgcgc caatggaccc ttggcggaat ggggaactgg gtgtagtga gcagagacaa	1200
accgctgacg gcgagctgac tatccgctcg ttaagcgaa aatacatgct gagcgatgaa	1260
ggggagatcg tcaaaaacaa aggggaacgc atggacgtgc cggtaaacag cggatgagac	1320
gttcgacctg atatgcctga tgattctgtc ttaatacgc ggatgagaca ggaaccacag	1380
cttgagccctc attctccagc tctctga	1407

<210> 5020
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5020
 cgggtgcgcg tctggtgttc ggcgtgttt accggagcat gtcccttat ttaccctcac 60
 aacggtctgc tatacctgct cgccattacg cgactcgggg cagcatcatt gctgctgcat 120
 ggccttatgg ctgcagtcac ccgccttact gtttcagggt ctttagccca tccaccagtg 180
 aaaacaatct ga 192

<210> 5021
 <211> 237
 <212> DNA
 <213> Enterobacter cloacae

<400> 5021
 tatccacgcg ttacgcttgt tgttatctgc ctgggtgccca ggctatacat gactctgatg 60
 cggagaatgc caactcgggg gaacatcaat aaaaagagca acgaaactga gactcctgta 120
 gccctcgctg agcagggcctt tttttcaaaa aaaagccagc tcggacagaa ctgggtgggt 180
 ctacgagtaa gtaggattta cttcgcactc atttcgaagt gtaccctatt cctttag 237

<210> 5022
 <211> 276
 <212> DNA
 <213> Enterobacter cloacae

<400> 5022
 ggaatgttaa gtgtcggggt gatcccccato ttcgcgcctc gcgtccacta cattgatatt 60
 gatctgaact ggggtcgggt cgtcatcact accatcacgg gccagctcct tgcggagttt 120
 ttccactccc agcagccggc ggtcgatttc gatctgtctg agacgctgag cgaactcgct 180
 atccgccagg ccgagccgct tcattaccgc ttcaaacatt cgctcacggc tgatggctgt 240
 gatttcgaca ccattcttgc caaccttcac gectga 276

<210> 5023
 <211> 228
 <212> DNA
 <213> Enterobacter cloacae

<400> 5023
 gtaaaagcta actccatggt aacgaaaaaa atttgcaatc acctctcaat acattatcag 60
 cattctacag catcaacctt atttttggtg agctttttcg aatggcgaaac tggctgctat 120
 gtttcgtcca tgatgtctaa taacaaagag tcacttatta aacaaataag cgagtatgcc 180
 aggcttaacg agcaggaaga aatccagttg cgcaagataa tcagctga 228

<210> 5024
 <211> 270
 <212> DNA
 <213> Enterobacter cloacae

<400> 5024
 atgccaacgc cctctgatta tttttcctgt aaccatatct tcagttttac cgtgcgaaaa 60
 gtaggcgatc tggacacagt cattgtgtct aatccaataa tatccctctt tcataattca 120
 cctcttaaat tgtttcattt agaagtgtat atgacgattc agaactcggg ggtcgacaaa 180
 acgttttttt taaggatgtg gcgcggggtg cctccgggtg acttatctct ggtcgtoaaa 240
 gtccgctgca taactgcaca tagcagttaa 270

<210> 5025
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5025
 aaaaaaatct tttttgagca tcgggtttcaa aatgggttttc cttttatgcc cgggtgcggcc 60
 ggggcccgttg cggttaaatat acgcccattga agtaaaattaa tttataccca ttgtattgttc 120
 aatacaaaaca aaaaaacaaa ccatgttttat tattttatca acgatgctat tttaaagtcc 180
 gtctaa 186

<210> 5026

<211> 270

<212> DNA

<213> Enterobacter cloacae

<400> 5026

acagaaatga cgcatactgc cgtttcttcag gctaatagtg ctttgcagct acccacggtg 60
 gagcatgtct acgctcttct gaaagcaaat tgtaaacctg accgctttga cgggcccgtgac 120
 ggacccgtgt ggggcccagga atactcgtgg aatctggcaa aagatcgctt acaggatctg 180
 gaaaaatagc gtaaggcata tgtctccctg catgaagacc gtatggggga aggattttagt 240
 ttgtgtcctg acctgttaat tattcgctaa 270

<210> 5027

<211> 2433

<212> DNA

<213> Enterobacter cloacae

<400> 5027

aggggaataa gaatgaaaca tctcgtcttt attactgctg tagccggact cggtagtgtct 60
 gttcaggccc cagctcagat atatgaatcg gccctttaaag acacgaacgg tatttgagatc 120
 cagcccctgt cttctcgtct tatgtctaat ccggcatcac cggtaacttt gacactttatt 180
 tcaggtcttg atcgtttcgt taatgtcmeta gtcacgaaag acactggaac tgtcatttctt 240
 aatactacga ctacacggag ggggtgtatca gcccgactaa cagctgctga cggtagtgag 300
 ttctacggga aaaaagttaa ttctcgtctg ttgggtgaag gcaaatttgt cgttcagata 360
 aacgtgttag atctcaatca gaagcctgta gcgacctata actataactg gctaatgtat 420
 gtcacccctc cagcggcaaa tgcctcttacc gctaaactct gttctggctc tcccgctgtg 480
 gacgtgtgga agcttggtat agaggcaacg gggcagtgat acttcacctc ttcgggctga 540
 agtgatgcaa atggtattga taaggcccta atatatattt acaggcagga cggtagcctc 600
 tacagcacta cacagatgca gtagacgta tccggccaaa agatgtacca cacttactct 660
 aagaattcag ttaagggaac cgggaatacca gacagcaacc tggatgaaga ctttactgca 720
 aaagtgttta tcttcgataa cgcaggtaat agccgaacgc tgccaaactca aaaatttgcg 780
 tacgacaaca cgtcgggtga gatgacactg tggccgcttc atgatccaaa tgcgtcttcc 840
 agcgtcgtac ccgggttttc taattatccg gcttacaagg ccggtatggt cgtaaaccga 900
 aaccctattc gattagtcta ccggatccca aaacttaact acogtgccta ttcagaagggt 960
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 gottatgttg aaatgactct tccctatggc tcaattaatg gggatatggc tggtagggcg 1080
 aactttggcc agtggggagg gttattatccg tcatcacgccc tgcgtttcaa cccatctgca 1140
 aaccaaacgc ctgcattttg gggatccctg gtagatttcc tctgatataa ggggaactgg 1200
 gtttaagtga aggtattttga gagtgtggct tcatcacgac tgcgaattaa aatttccga 1260
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 accattcccg caggaaaaac ctctgtgtga cgcctctaga cgtttgatat ggccttgggt 1380
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 totgagcaat ggattatgac acgctggaac aataaacaac tgcgggtaat aaactcgata 1500
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 tggttcgact cggttctcatt gagggaaatt tatctttccg ataagaacac cgttaccogg 1620
 atgtcaccca caggcgtaat caaatctcgt atctcaggta actacacgat tgccttatgt 1680
 ttatcccgct agctcgaagg aaaaatacaac gttgaggtca acatcaggga cttcttcagg 1740
 aaccagacca ataaaaactt cggagaattt cgtctgtgata acactcctcc gacagtgccc 1800
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 cctgagatct cagggtcgtt cccaaatttc gaaccatctg aaaaatttct aatttagcta 2040
 acagttgcgc atagtccgtc gaataccaaa acctatactc aaagtctcag ttatctaccg 2100
 aataaccttg tgcagttaca taatctacgc acattatcgg tcagttcgcc tctcaaaacg 2160

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acagatggcg taccocctgc gtacctgtcc actaacgttc tgcgttaagac aaatggagaa 2220
attgtctaaag ggggtccagaa cgcacacgtg actg:cgga aggatgcagc cttcgggtatt 2280
aaattttaacg ggggcacagcg ggcctccaggt gagtcagttg aggtgcacaa agatatgggc 2340
caggggggata atcttctgtt acccgtttat ccttccgaaa atgggaaagt tggcacctca 2400
gaattcatga ttcagatcga cgaagtgaag taa
2433

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<210> 5028
<211> 795
<212> DNA
<213> Enterobacter cloacae

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<220>
<221> unsure
<222> (635)

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<400> 5028
tataaagcca acacagaaaa ggaaaaacaa atgtataaat tagtatcttc tcgtgaactg 60
actgagatta ttaccgggtt actgcttaaa cctgaactcc ttggtagact ggaotcaccaa 120
gaaaagcatc ggatgtttat ggcagattta ggcgcgtggt tggccgaaga ttgtggaggt 180
ctggtaaaaca cgcgtcgtctt gccaggaaca gaagttacag tgcctggatgg gttaccgctt 240
aatggccagc cggtagctta tctcggaatc aaagagaaca tccctcacct cctttagtag 300
cctgatgctt ccttaccttc gctcgctaaa aacgtctgga tglatgcaga tcttgaaggg 360
tggaaagaac attttggagc tgaggaagac tgccttactc ctgaaatgat gcagctgttc 420
cgtaaaagga tccaggctct tcagaaagag catgacaccc ctgaaattag cctcacactt 480
caggactggc gcctggagga ggaaacactg ccagaagagg acagtcaagg ctatcagggtc 540
agcgttaccg gccaacataa catccactgt gaagttgta acaaggaagg taacccctgt 600
ttaggtgtca tgttcgaaat cgcacagggt gtgctgtcct tacacatcaa caccggcggg 660
gatattgttc tccacattca ttgcgcccat aacggactcg ttctgacccc tgatgcaagc 720
ggtcagcgat ttgataaggc tcccgctgac cgtctctctt ataacagccc atccctgctg 780
ttgtctgcgc actaa
795

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<210> 5029
<211> 612
<212> DNA
<213> Enterobacter cloacae

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<400> 5029
tatggtaagc acaactggaa aaatatgttt tcaaaagcta tgaccacttt cacaccagaa 60
cgtattgaac aaatttttga atttgcgag ggtagtaacc caagcgaagc aatgagcttc 120
agagctgacg aagttgctgt actggcacgt attgaaaagg cagttatgtc gattgcgctc 180
gtttatcagt gcgagttttg cccaatgac gcaaccgggc aacttcagt gcactgggaa 240
gatgtgaaca aagcttttta tgataaatc gatccagaca gacgcggaag acgtcgaaac 300
ctctataccg ccccgccgat gccttttagt tcggctgacc tgccttaacat ggcttcactc 360
gctattgaag acttgctcac taacaaagac agaagtggtg cgggaatgtg gaatgacatt 420
ccagaacagc tacgacgcgc agcagaactg gtaattggata atagccgggc cgcctgaaaca 480
gaagcgatgc tgatgcgtct ttatgtagaa tgtgacacag gtgagcgagc gggcaacgac 540
actcaactcg gcgtgacat gccttcttgg caaaccggtt aagaggcaag tgtgtgtgta 600
ggggtaaat ga
612

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<210> 5030
<211> 198
<212> DNA
<213> Enterobacter cloacae

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<400> 5030
gcttttctca aaggctacta tgttcgtaaa agtataaaaa acttctccat atggtgctcg 60
aaattacaaa tctataaatt gcctttcgac aaaccttatt gtgcgttcag gacggaattc 120
ttctcttttg gaattacatc tgacatttct gtgggttcca aactggcaac gattgcacaa 180
cttataacat tagcctga
198

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<210> 5031

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<211> 237
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5031							
gagacctcgc	ttagcgagca	ttgcgatggc	atgcatgaca	tgtttaacgt	cagagcggtt	60	
aaggaatggg	ggattcatata	cgataacatc	aaaagtttca	tcgggctggg	acccaagaaa	120	
gtcgggatcg	accagctcga	ctcctgtgct	aaggacacta	tcgtttctca	ctcgaaaggaa	180	
tcgctcatcg	ttcaattcga	tcccggtaat	caatgcaccc	ggagcgcgca	gttttaa	237	

<210> 5032
 <211> 567
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5032							
cgccaccgac	cggcgggcac	cgggcataaa	aggaaaacca	ttttgaaacc	gatgctcaaa	60	
aaagattttt	tttcagctat	tgaaaacott	ctcaaagctg	gctttcaacc	tcgcttttac	120	
actgttaaca	gtggcggaat	cggtctcatt	acattcactg	ataaaaaatg	aacaaaacag	180	
gtcgaaacag	tttattccgt	cactttctta	gccgccaata	cttttggaag	gcgcttcacc	240	
acttggttag	aagaattttt	tcaaaagcat	aatgaagaaa	aagtatgtga	ttccgggttc	300	
gaggtttgga	gccgtgtctg	ggataaatgt	atgtatacgt	tcgcgacatt	ttcagaaatt	360	
cgtgccgggg	gggtgtctgt	gtggataaac	ggtgcacagc	gtacactgga	tgaagtgcga	420	
aaaacggcac	ctgaacaaca	ccaggtgtgg	ccaaaggaaa	tctcttcaat	tcaggagctg	480	
ctgaacgctt	ccaaaatctt	ggagccgact	tcgcctgagc	taattgcggc	tcttaatgag	540	
gctctgtcaa	ccgccaataa	acggtga				567	

<210> 5033
 <211> 216
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5033							
ccatgtacaa	agatgatgga	gaaacaagtg	gccaaaaata	acaacagttc	caaacagcat	60	
gtcttcaata	tgctgtcggc	tgccagcgaa	cttaaaagag	tgaagcggtt	tctcaccagc	120	
aagcgaggtt	aagcccgctc	ggcagtgcca	atgatccacg	agcagcgcat	tgctggtcag	180	
aacactgaat	accagaatta	tccgggttat	agctaa			216	

<210> 5034
 <211> 726
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5034							
tgtgtacctt	actggcattg	tcattgtcct	cggagtgtgc	gttcagcttt	gggaggacac	60	
cggaaacttaa	tgccggcaggt	caaggccatt	gtgaatctcg	attggattgg	cgaatacggc	120	
ttccggttgg	gcagatgtgc	aatggttatg	cttcatccag	ctcattactg	tagtcattgc	180	
cggttcagct	agctgatgtc	ccctcatttc	tatgttgcca	caacggtagt	gagccagaaa	240	
agtgaactacc	gttgtcatgg	ccgtccagta	gagcgggtca	acctcttata	tcacagggtg	300	
acaacgggat	tgagccagaa	aagtcaactac	cgttgtcatg	gacgtctggg	taagcgggatc	360	
tacctctcaa	ttcacagggt	gaccaatgga	gtgagccagc	caagtcaata	ccgttgtcat	420	
agtcgtcccg	ttgagcagat	caacctctta	acttacagga	tgacaacggg	agtgagccta	480	
tttaagtcatt	acogttgtca	ttgccaatcca	gaagagcgga	tgatcccttc	aattcatacg	540	
gcgacaatgg	cactgagccc	agcaagtcac	ttccgttgtc	atagccttcc	agaagagcag	600	
atgagcctct	taattaacag	ggtgacaacg	gtagtgtgct	cattaagtca	ttactattgt	660	
catggccgta	cagctgagct	gatcatcctc	tcaattcaca	cgcgcacaat	ggtagtgagc	720	
tattaa						726	

<210> 5035
 <211> 432
 <212> DNA

<213> *Enterobacter cloacae*

<400> 5035

atggcgatga	ataaaaaaga	acaagccgag	tatgatgagc	tgggtggcaca	ggccagaata	60
aaccgcgctt	taacgtcggt	tgactatggc	gttgaaacgc	atatgcccg	accagaggtc	120
togggggaat	acaaaaacgg	ctggagcttc	aacaccgcc	ctggcactgt	ttatccgaca	180
tggagcgga	ctacgggtta	cggcacacgg	gaagagggag	aggttgctga	tgcaacctcc	240
cgccgcgatc	gaggcatgaa	tggtagccag	aacggcatac	cacaatacag	caccaaaaga	300
cgccgacctga	aggcattacg	ctgttcgctt	gaatcaagt	ttgccatgca	gctggatgcc	360
atagataaag	ctatcgcaaa	agaaaatag	ctgtccaccg	ctcgccggga	gagcgatata	420
tcagatgcct	ag					432

<210> 5036

<211> 633

<212> DNA

<213> *Enterobacter cloacae*

<400> 5036

cttttgctg	atctgcgcgc	gtctggtgaa	gacgtaacag	tagatgggct	ggagaacgtc	60
cgtatacagc	tcaccgatgc	cttaactaaa	ccatccttaa	gccgtatgac	tcttcgcggt	120
ggccctgttt	ctgatgcggt	ggaattgtct	tgggtgaatc	tgggaaccaa	cctgtatgca	180
cctaattatc	ccaagatctt	tcctgtctct	aatgaaggcg	aaacatacac	tctcacagtt	240
caggccaaag	atgagatgaa	caacgtttaa	gaaagctcag	tcgaatttaa	tctacctcca	300
aacaatctcg	tcaggctaga	gaatctgaaa	accttagctg	tcaatgcttc	tctcaaaaac	360
tctgacaata	ctcctctggc	tgttctgtat	gccagccagc	tcggtaaaaa	ggatgggttca	420
atcgctacag	ggcttcagg	cgcagtgctt	actgtccgta	aggacgctgc	attcgcgctg	480
actgtaaaatg	gtgtttctgc	gatgccaggt	gaaagcaaa	agcttcaact	ggatttgggg	540
ctcggggaca	gccgtagctt	tctatttttc	cctgctgtat	ccggccttac	aggcagatct	600
gagttcatga	ttaacattga	agaattaaaa	taa			633

<210> 5037

<211> 294

<212> DNA

<213> *Enterobacter cloacae*

<400> 5037

agctgtccac	cgctcgccgc	gagagcgata	catcagatgc	ctagcggtaa	accatcaatt	60
caggcccggt	atcagagggg	ccttaacgcc	ctgaaagagg	cggttccagc	gacggcaca	120
ctacagatgc	gggttaccoc	tgaacgtaaa	ctgcgtttacg	tcaatcaggc	aaaggccgaa	180
gggtcgggct	taacagactg	gttccaaaag	catatggata	acgtgtgtga	ctggcagggc	240
cagcctgaaa	taaccatgta	caagatgat	ggagaacaaa	gtggccaaaa	ataa	294

<210> 5038

<211> 228

<212> DNA

<213> *Enterobacter cloacae*

<400> 5038

ccgttacgaa	ctgttaccct	attacaattt	attaagtga	tctatatitta	taagcccgca	60
acgctgaaga	gcactgtagg	tatttttctt	ttcagctggt	ctgttgataa	caagatcggt	120
gtcaagagac	agtattttct	cgtcgaaatt	gcgcaaaacc	tcgtctattt	tctctacgaa	180
ttcctgtgct	tgtggcgtgt	ctatatcccc	agggatcaaa	gaactttag		228

<210> 5039

<211> 327

<212> DNA

<213> *Enterobacter cloacae*

<400> 5039

atccacttaa	taaattgtaa	tgaggtaaca	gttcgtaacg	gtcaaaagaa	gggtgtggaa	60
atgagaatgt	tgccgttttt	gcctgatgaa	tcttgtttca	gcgggttttt	tcggacaact	120

accggtgtacg	gtatgtcccc	atcttctctg	ttaacgatca	ttttcaacaa	acotgatatg	180
aacgtccatc	caatttctaa	ttcaggatta	aaggctattt	ctcttctaac	atccgaaagt	240
gcagatcagc	tctggcatga	acagacttta	ctccctcttt	ttgcttgggc	actaccaatc	300
agtcgtaatg	agatcctgga	cttcaac				327

<210> 5040

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5040

tcgctgtcat	cggggataac	gccgcggctg	accaccaagg	acagcccgcg	ttcgtcatcg	60
cgaatgatgt	tcattgtgtt	gtcctgccag	gcggcaggaa	aaaggggtaa	ggaaccttcc	120
tggagggtgt	atttcataag	tgaactcggg	atgatttatt	cgaaaaataa	aattaaaaag	180
gctaaaattt	ataccgccaa	tatttaattac	tgcttagcga	ctcagagaaa	tatgatcatt	240
agaacgttag	cactttcttt	ttttccgcaa	aaactttag			279

<210> 5041

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5041

ctctctggtt	attggcttgt	ggatattgtt	tcgtccaacc	tttggatgtc	aaaatattat	60
gaacatcagc	gggttttttt	ctgtttaatc	tatccaccca	tccttgtgtt	atcagatctt	120
tttgagaaaa	accacatttt	aaacccccc	gatccaccca	ccccagcgca	ttcggcgcat	180
actggtaaa	gttaa					195

<210> 5042

<211> 549

<212> DNA

<213> Enterobacter cloacae

<400> 5042

cttctggcac	tgagattcgt	ccatagtgtg	ataaagatta	tgctcaaccg	aattaccgtc	60
cagctcccg	ttgaggggct	gcttttctgg	aaactctccg	gccgcagggc	gatgtccgag	120
tcgtctcgcc	tgacgctgac	cgtgctcggc	acagacgcgc	gcacgcacgc	cagcaggctg	180
ctcggccagc	cggtcacggt	gaccatcccg	acgcagaatc	tgctgacctc	ccgctatgtt	240
aacggcaaga	ttaccgcgct	ggcgggtgag	gccgtggagc	tgacgggcac	ccgctatgct	300
gtgtaccagc	tgacggtgtg	gccggacctg	tgcccgatga	aacgcgcagc	taacctgcgt	360
atcttccaac	gcccaaacgg	taccgagatt	gtcaaaaccc	tgctgggtga	gcactcaagt	420
aaacctccaa	aaacactca	ccggcagcta	ccgggtgtgt	gactactgct	tgacgtatca	480
ggagtcgagc	ctggacttca	tcagccgcct	gatggagctg	gagggggattg	cgtactactt	540
ccgccaatga						549

<210> 5043

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 5043

atcatccgga	gttcacttat	gaaatacacc	ctccaggaag	gttcctttac	cccttttctt	60
gccgcctggc	aggacaacag	catgaacatc	attcgcgatg	acgaaagcgg	gctgtccggt	120
gtggctcagc	gcggcgcttat	ccccgatgac	agcgactacg	aacaagagtt	tcaccgccag	180
tgggacgtgc	tgctgtctca	gatgggggaa	attgcacaga	gcgaatttca	gcacgtaaaa	240
gccggggccag	acggaaacat	tagcgggactg	gaagttgaga	ccacctttga	ccgtaacggc	300
cagcgcctgt	ggcaaaaaca	gctggccgtg	cagacgcggg	gcaaacccgt	actgatgatt	360
tttaccctct	cggcctttaa	agcctttacg	gaagaggacg	agggcgcgctg	gagcgcaactg	420
aagcagagtc	tgacgtctaa	cgacaaccgg	aatgtgttaa			459

<210> 5044

<211> 528
 <212> DNA
 <213> Enterobacter cloacae

<400> 5044
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 ttttaagtctg atattttatc aggaagagca ctaggtaacg tttttttggg ggataaatatc 120
 agtaagtaca taagcagagt atatgctggc tataaggtaa ctacttttga ttatttcttg 180
 cctgatgata agaaaaggct tgcataatatt gtatgtgaca caatgacaat cgctaccott 240
 gaagatggaa cgatcatttc tattggtttg aacgtaaact ataaggggag gtataataaa 300
 atattacaaa caggccaaaac gatgggggaa ataatagggt tgacttacaa acagcgtata 360
 ttttaatggct gtattattat aaatgaacgac ttggtttttt cattogaggt gccagcgcca 420
 tatgatgaaa ttgcagatag cattgcacat gtccacatag atctgtgttc taatgaaatc 480
 cgtgttctg attactctga ttggaaccga caaaaaataa aacgctga 528

<210> 5045
 <211> 546
 <212> DNA
 <213> Enterobacter cloacae

<400> 5045
 attataatga ttactatgga ggatttctatg gaaagttaga tgattaaagc tacattccctc 60
 attgttcttc cactattttc aatatttacc tatgcagggc ataataaaat gaatcaagat 120
 tcgtttgtgc aaatgattaa agaaatgaaa tcagtgtggg gtaaacaaagt tgaaggatgct 180
 agtaaaactgt ttaaccaacc gctgattaat aatacacagg agaaagaaga cgtttatact 240
 tcagctccct ttacgttaac tgatggcaca cggatcagta atgtggatgt cgttttatgg 300
 ggaaatgggt ataacagcgt atctttgggt tctttcgtag ttaatcaacc atgtattact 360
 cttgatcaag tcaaatctca ttttcgggat ctaaaaattgt ctaatatccc tcgcggaaac 420
 acgcggggac aatcagttgg atatcgacc cctacogatg aacgcgggct ggcattggga 480
 tttagcttct cagttctgaa tcaggaaatgc ctgggcaggg tagttatgct acgctacgaa 540
 caataa 546

<210> 5046
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5046
 aatcccacgc gcccgctgca gcgcgcgtgg gattactact accgcaataa cttgggtgcgc 60
 gaagagcgcg acgataaccc gtccaaatgg taccgctggc agtacgacag acagtgcgcg 120
 gcgtctctcg gttcaggacg gcacgctggc cggagaggag cagggggtct gggatgcagc 180
 cgctaa 186

<210> 5047
 <211> 315
 <212> DNA
 <213> Enterobacter cloacae

<400> 5047
 cggccaaacc cgaggaacgg caaaaaaccg cagacgcagg tcagcttccg ctacgatccg 60
 ctcggtcgcc gcactagtaa aacgcgacgc cagaagctgg gcggacagcc aacgcggaag 120
 ccacaccac ccgggtgctg tgggaatgac tgcctactgg gggaaagcga cggggaatgt 180
 ctgttccact acgtcgacga aagtggctcag gacaactacg atttgcggc cgtgttagat 240
 agtgttgatg cttcatatat cttctgggtc cattgccaat ccaacggcac ggcacaaact 300
 ataactgata tctaa 315

<210> 5048
 <211> 246
 <212> DNA
 <213> Enterobacter cloacae

<400> 5048
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 aagatcatgc aaacagtaga tctgtctaatt tcacatagtc aaatattggt acgatccaga 120
 gactatgacg aaaagctgag tcagtgggga aaaggtaatg ttctccaagg cgctgtttta 180
 cacaaggatt atgtgttatt cgttcttcta ccacagggga cgggcatccg cgcaatgcaa 240
 tgcgaa 246

<210> 5049

<211> 249

<212> DNA

<213> *Enterobacter cloacae*

<400> 5049
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 cgggaaattt tcatgaaggc cgtggaatca gtatttcctg ttccaatagg aataaagggg 120
 ttattatttc agtgggaaat gaggcctgta ttgcctgc cggataagtt agggggcatt 180
 cagaattcat ttattgagct gatgaatgta tacgcggaaa aaactgggtc tgaccaatac 240
 caccttttaa 249

<210> 5050

<211> 189

<212> DNA

<213> *Enterobacter cloacae*

<400> 5050
 aacatgatgg cgtttttaag acgctgggtc aaatctcagg ctacgttttt cttctggacc 60
 tatgtccoga tcatctccta gttcattttt ggctatgtcc ttgaacgttta ctccctgag 120
 gttacgcagg gatcattcct cctgttttac ctggtaaacac tgggactggc ttactggata 180
 tggcattga 189

<210> 5051

<211> 345

<212> DNA

<213> *Enterobacter cloacae*

<400> 5051
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 atctcaaccc tctcccacag ggctgagggt tcccacaaa ataattgctg cacgacggcg 120
 cccctctccc ttgagggaga gggctggggg gaggggggaa atacggctct ggttggtcatt 180
 ccgttcaact tatgttccct gctactctgt cagcacatga ccggtgaaac tgcccagggtg 240
 gctcagtcgc caccaccctg gcgacccggg ctctccggcg aaaatcgccg ctctcggggtg 300
 ccttoggcctt attccttcog gcttatccgg gacggggcga ggttaa 345

<210> 5052

<211> 756

<212> DNA

<213> *Enterobacter cloacae*

<400> 5052
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 aagttaccga caaataagac aaaacgcctt tacogtttgc ctgcccgcct ttatggttat 120
 cagcttttcc tgcgtatggt ccttgcgctg ctttttacct ggctttccgg cgtatgaatcg 180
 cttgaccgat ggataccagg cttctgggat gacgcggcga cgcattcatt cccgctacag 240
 caaaatccgc tgcgtgatct gctcaacat ccgctggcga aatatgtggc cattgccctg 300
 gcctgcacgc cgtcgtgtta cgggaacttac agacgcaatg cccggctggt gacagccgcg 360
 cctgtgatgg gtcctggcgc gctcgttgta agagccctga aaagcatgag ccaccacagc 420
 gtccgtgggg atcgtgtgga gtatggcgcc aaagctgtct cgtatccctt gttcagcgcg 480
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 gtcgcttgg gcgtgtttat ggggctgctg ggcaggtcat gcgcggcgcg 660
 cattttttct ctcacaacct gtgggcgggg tgggtgggtct ggttttccca ggtgtcgtgt 720

taccgggtcg tttccgctg gtttgctaaa gagtaa

756

<210> 5053

<211> 726

<212> DNA

<213> *Enterobacter cloacae*

<400> 5053

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aagatactgg	caatgaagct	ggacgcggcg	gtacgtgatg	taggtgaaaga	ggtaaaagagc	120
cacctgaata	atataggtgc	cggtgcccac	gcctgctgtg	actacacctc	ctgctttact	180
gatgaatatt	acgatgtatg	caccgcacaa	aacctggagg	acgctcgatt	cggaaagggc	240
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gagctgggta	aggattatcc	cccggcagaa	ttatcagcga	tacagcatgc	tctaagtcgc	360
gctaactgtt	atatatccac	cagcacgcga	acctcgatt	cattctctgc	aggcgtcgca	420
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gagatgatgt	atttctcggt	ggagcctgct	tttatgcgcg	cgggcgtgct	aaccacgcaa	660
tggactgaca	gtcaaaagcc	ttatgatgct	gctgacacga	tcctgaagct	aatgggtaga	720
cactga						726

<210> 5054

<211> 1917

<212> DNA

<213> *Enterobacter cloacae*

<400> 5054

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ctttcgtttg	atgatgcaaa	tgcaacggta	gtagtaacgg	acagcaaatc	taaacctcgg	180
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cgggatttta	acgtaaacgt	gaaactgaac	ctggtgaaag	gaaaataacg	cagcatcgcc	360
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cccgcgcacg	cagtgacgca	gtggatgacc	taccgcgatg	ccgaaacccg	gcgatccatc	1380
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aaataagcgga	agtggggatc	ccggcgcgag	gcggcgaaat	ggtcgcgtga	gaatgcggcg	1620
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gcctcatgga	gtaaaagcaa	agcgattttt	ggcctacgca	accgcgcgga	taagccgcgaa	1740
cgttactacc	tggtattaac	caaaagattt	gagatcccg	caggagagct	tcgcaggttt	1800
accctgaaag	ccgtgtacgg	cagtaattcg	accgtaccag	aggagataaa	aaacgctgtg	1860
gtaattacgc	tgcaaacgct	ggaaacgctg	gtgtttgagg	cgatgccggg	gaaatag	1917

<210> 5055
 <211> 296
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5055
 cctccacatg catagcgagg ctccttcctg cccctgtggt gaaaatatat cctggccgta 60
 ctggtgctgg gggcgcgacg cgtctggctg ttcccgcatg cggatggcgc tatcgacaac 120
 acgctgatgt ggggtgattg gatggcgtg gccgggttgc tgttcgtgat cccaaccgcg 180
 gcggagatcc cgattattca gaccatgatg atggcggcta tggggacgcg accagcgctg 240
 gcgctgctca tcacgctgac ggcggtgagc ctgcctgcgc ttatcatgct gcgttaa 296

<210> 5056
 <211> 372
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5056
 gcttgggcgc tcggtttcaa agcgattaat catgctggca gcaaaatgct gtgcgttggc 60
 ggcggacgtg ccaattgccac aacagaggat ttgtttgcgg ttgagcagcg actgaaccag 120
 tgtcatcgct gcacgcgaga tcgcgtccgg aagggtctcc gcgcgcgcaa tctgcgtttg 180
 aatgctttct gtgaagcaca ctttaattcg ttgcagcagc gtatcccttt aaaatcttat 240
 ttatgcgtct tgcccaaacg cgtttttaag ccagtcgata gcatttcggg tgaaggctac 300
 cacatcgaaa cggcaatcca cagtatcaaa actcccatia tggcgggcaa gccacaagtg 360
 ggcagtctgt aa 372

<210> 5057
 <211> 405
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5057
 gtggataaag tactgcatca gcatagctgg aaaacgcgag cggcattgac cgcgctgttt 60
 gcgatccctg tgatcgtctg ggcgcgcgtg atctccgtct cgtcgcaaaa agatcccatg 120
 agcgccatgc cgggcgatga ccacgacatg agcatgatgt cggtggaaga gcatacgtgt 180
 gatatgcgcg attctatgcc agttgaacct gctgaagcat gcggctactg cgtgctgtta 240
 gcgcgatgac cgggcgtgat gctggcgcct atcgtttctg tcagcgtggt gttgcagcgg 300
 ctgcgcgtga agcgcctcgc tcaggcggtc agccactggc actttttccc ctggtcttac 360
 cccgataccc gcgcgcgcgc gcgtcgtctc gctttctccc tttaa 405

<210> 5058
 <211> 279
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5058
 agaggttcga taaattggtt gtcgtgcccc agtgcaaggg actgggcata ggcgagagca 60
 agctggaatt tattagtaag acgatccaga cgcataaact ctcccataac aggtcaaat 120
 tgctaaactga gattaaatga ggtcacccct caattattca aggttaataa cctgaattat 180
 gtgaaaaaaa aacggcgcgt accgatcgt cttgattctt taggttatat cagccaaatg 240
 aaacttgcca taagcctgtg cgtcttctgc cggcgatag 279

<210> 5059
 <211> 291
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5059
 ctgctgaaat gtaaaattcat gagcgcgctc aggatcgagc tggaaaaggg ctttacgaac 60
 gaagggttag tacatgaact ctccctgatt cccggtgtgc aaacgggag gggattatgt 120
 gcgatccgcg ccggaagggt aattgacctg tggcaaaaaa agccacgtaa aacgcaatcg 180

tttacttata ggttcgcttc ttatgcattt ttctgcattc atcccgagga taaatcattt 240
agtggaataa ccacgcaatg tcacactcct gaaaatttgt atgaatgtta g 291

<210> 5060

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5060

tccgggttga ataaatcact aaacagggtg tactccggag ttgtttattg tactaaacgc 60
tccggtgaga ggaatgtaca ggcacacctat gactcaattc gcttctccgg ttctgcatac 120
gttgctggat accgacgcgt acaagctgca tatgcagcaa gccgtgtttc accactatca 180
tga 183

<210> 5061

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5061

acaagcctgg gaacagggtg gagtactgta atgcaggtag cggaaactgac ggaatgacgc 60
gtgggttggc tggcccgagg agggcggtgc gcttttattc ctaagctgag cggtcagcgc 120
acgatacgcc ttccacgct caacgaggcg cagcgtcagc gctgtgtgaa tattctggaa 180
caggctatcc cgcgcggaca gccaccgggc caggcgtcgt ctccgggcag cggcgatcag 240
cgctatttcc gcattcagat aatctggacc cggcacaatc aggcgcagta taccgatatt 300
attgtgctgg ttccggagca ggaagcgccg gaatcgctga tcgagctatg gcaaaaaggga 360
gaagcgctgc gtgcgatta a 381

<210> 5062

<211> 315

<212> DNA

<213> Enterobacter cloacae

<400> 5062

cggttcatca agggaatact cgggttcgat atccacgacc acaccocaaat atccgagcaa 60
gggtgtggcg acctgctggc cgataccgaa ttgtctggca atcatagtca cctcccggga 120
aacattacat acacacatg tgccggcaat atttctcttt tcaagttaca tgacgcgaca 180
ggcaaacctt ttcatataca gcccttccgg gttagtagcg atccacgggt gatccggcgc 240
ctgacggaa cgtctctataa attgtacatc acgacccgca tctattgcgg catccggcat 300
gattttttgg ataaa 315

<210> 5063

<211> 852

<212> DNA

<213> Enterobacter cloacae

<400> 5063

tttccccttc gtgacagcga tcataaattc agcatccoga tttttttttt ggaacccggtt 60
ccatctagcg taatactatc gattacgctc tggagtcagg aaatgagcag gaaaattatg 120
gtggtcaccc cccgctatgg tgcggatcag gtgcgacagg caggcgggtca accggcaatg 180
cttcccgtta ttccggcgcc aggggctgat ggctttgaaa tccgcgcaga gctcttcacg 240
cacgacgagt taatggccct gcctgcgctg ggcgagtcga ttgaactgct ggggtttactg 300
gggtgctact ccgcccgcgc cccctctgtt atgcgcgatg gaacccctaa ccccgatctt 360
ccgcgctacc ttacgaagac cagcgcaactg aacgcgctgt ggctttaaagt ttgcgtgggt 420
cattttcagc acaaaacacc gcttgaagcc ctgcgcgcac tgctggaatga aagcggcatg 480
acgctgtggtg tggaaaacga ccagaccgac tgcgggcgag tcgcgcgatg cagcgccttc 540
aaagccgcgt gccgggtaat gccgctgcgc gtcacactga cgttcgatata gggcactatg 600
ctgtgggttg gcgactcccc ggaagaggct gcaegtcagc tggtctccgc cgtgagctat 660
attcatgtca aggcgcgagt cccgcataag gcgcagttcc gcccgctcgc gccggatcag 720
accgatcttc gctggcgagg tctgtttaat caactgcctg ccgacgcgcc gcgcggtatc 780
gaatttccgc tcgaaggagc ggaatctacc gccgtcacc gccattacgt caactcgtgt 840

cgcgaggagt aa

852

<210> 5064

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 5064

atgacaagcg	ttattttcat	caagcataaa	aaaacccgc	cgaagcgggg	gtttttctta	60
ttccgtagca	gcgacgcgtg	cgctccaggc	ctggctaaag	gcctgatgct	gggacgcgag	120
cggaccggtt	agcggttat	actggctcgc	ctgctgggag	gtcgggaaact	ggataccggt	180
agagacaaga	ctacactcgc	taacctgttc	actaataaag	tcaccacact	ggaccaactg	240
ctgagtaaag	acctgcgcgc	cogggatcag	cggttgcaaa	gcgtttga		288

<210> 5065

<211> 747

<212> DNA

<213> Enterobacter cloacae

<400> 5065

ggtggccaaa	tgaacgacgc	aattatcacg	gacaatgagc	gtattaacat	tgaacaaaaa	60
gatgtaatgg	taaaaggttc	aaataaaaa	caaggcgtaa	acgcctcaac	ttctactcaa	120
cgtagaccag	agcaaccagg	tatggccaaa	gttattatta	accccgccac	cccagacttt	180
aaccggtttt	taactgccag	aaatggagca	gtcatcagag	gttttgatga	tgtgagtatc	240
gctatttcct	ctctctttta	aacgggttgat	gcagttaaac	atcctgacct	tgttcagggt	300
attcaggatt	ggttcaacga	gcgcgatgaa	gaaaacaata	agatgaaaga	aaactcttgt	360
gcttatatta	agtcgaattga	gttcgacaag	aatgactcat	tcctgtctac	aactcaggtt	420
gtacctttca	gttttgaacc	agtacaaact	aaactcaata	accacaacac	catgagggtt	480
tacaagtaca	tcttcgagat	gaaccagctc	atgaacacaa	tgtatgagta	caactcattg	540
ggtttactcg	cgttaagcga	ctatccggtt	atgtctcaca	acattataaa	gagtattaat	600
ttatatgttg	agaatgtgaa	aaagactctg	aattgtttct	gccgtaagga	tggggccatac	660
agtcaccag	agttcatcac	caaagttaag	caataaaaa	gtgtgcaggc	atacattgca	720
gcggaactgt	caggcaaacg	tcgataa				747

<210> 5066

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 5066

ggtatgatga	tgaatttcag	ggcgctgtat	ttatgtatta	aacggatttt	ggggatattc	60
tcactccagg	agaatgatgc	aaactctgta	atgattgagg	atatatacag	cctctctcct	120
tttgccgaga	tcttaggaga	tcagaagtac	actgttccct	atcatccaaa	tccagaagtc	180
ctgaattatc	tcgagtatcc	aaactcgtcc	acgggcatac	agacatttaa	tgaacagtca	240
atcctgtctc	tgtatcggga	aaagctgcac	tcaatttcaa	tgatgttagc	tatcagcgat	300
agcgacatca	gggacgatgc	atatacattt	actaatttag	ttttaaagcc	cttgggtgaa	360
tatgttcgct	ggatacatct	tttccagctt	tcgaaaaatc	atcatcataa	tggtatttgt	420
gggttacttt	ctcacagcct	ggaagtggcc	ataactcttt	taaaaaatgc	gcataactca	480
gaactcgagc	caatcggata	tcaagatgaa	gaagtgtctc	gtagaaaagt	atatctctat	540
gctgcgtttt	tctgtggttt	agtcctatgat	gccggaaaag	tttacgatct	cgacatttga	600
agocctgaat	tactagtcc	gatcatttgg	acgccaaagc	cacaaagtct	tcttgactgg	660
gcacgtgaaa	atgacgttgt	tgaatacgaa	atccactggc	gaaagcgtat	tcataatcaa	720
cataaatatc	ggtccacgct	tttcccttgag	cgaaactcaa	acccggttat	tcttgcattt	780
ttggatcggg	taaataaaga	acgtgtttat	tcaaaaatga	tcaccgcctc	aaacgtttat	840
actgatggga	atgacttttt	gtctaaatgc	gtgaggaccg	ctgatttcta	ttctactggt	900
acagacctta	atgtttttac	ttga				924

<210> 5067

<211> 624

<212> DNA

<213> Enterobacter cloacae

<400> 5067
 aggccccctcc cgaatggggg aaacagcgag tgcattacat ctgttcaatt cccatcatcaa 60
 agagcattca aaaatcttct gtctgtgaaa aaaaacggaa atttccctcc gatatagtaat 120
 ttccactcag gaggcgtcat gagtaattca aatcttataa gttctataga gctaacacgt 180
 aaaaatttacc gtgctcagat tgaagggttg cgtgttgagg ctgaagatct cattacaaaa 240
 tacttggatca agtgggaagg acgaaaccac caagagatta accctaccgc acatagcaaa 300
 gttccaaaga gggagtagct gggttcttac gcaccaaaag ttgagctaatt tggtaatgcc 360
 agaaaagttaa cgatcacctg gcatacagttc agcccttata aaacaagagc gcttagccac 420
 atgtcacaac ggggtgcaacc aatgaaaagt gaaaaatatt ctaagaagct tttgttaaac 480
 catgccagct gggaatacga aatgatttct gaaaacggaag cattctggga gctttacaga 540
 gaaatgcttg agctctatca ttcagcatat atcgaacttg gacgaaaaat ccgtcaatac 600
 tcaaaaacta aggtggcaca atga 624

<210> 5068

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5068
 cttaataataa gcaacaagat ttcttttcat cttattgttt tcttcattgca gctcgttgaa 60
 ccaatctga atagctgaa caaggctcagg atgtttaact gcatacaacc ttttaaaagag 120
 agaggaaata gcgatactca catcatcaaa accctctgat actgctccat tcttggcgagt 180
 taa 183

<210> 5069

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5069
 tcgagcaaaa tctcaatcgc attcggcacc ctcaagtaagg ttaaaaggcag gagggttatt 60
 gatactcgtt gtaagagggt aatgaaaccc cctgcaattt ttaacaaatc tttcttcgat 120
 tcaaaatcaa aaagtaaat attgactttt ataacgctcat tatctgattt agcattcaag 180
 acaaaagaat ga 192

<210> 5070

<211> 336

<212> DNA

<213> Enterobacter cloacae

<400> 5070
 ctggagcagt ttcaaaagat atcgtctggt ggcgtccccc ggctgttccc gattactggt 60
 tgccgcgtca ataatgcgtc ctgggggggaa atagtgtgta gtgcagatgc ctttaaatgca 120
 gatgatcaat ggtacgacgt ggtcagaagg gcgataatg cagtattcta tagcttcccg 180
 gcggaaggga gatattcgtt ttatcgagta aatggaatag tttcattacg acccttacc 240
 gaagagggaag aaatcttcac ttttaacggg tttatgcaat ttgcaaaacg gcttgggtac 300
 cgaattacac caccgtctga tatcattctt tcatag 336

<210> 5071

<211> 621

<212> DNA

<213> Enterobacter cloacae

<400> 5071
 tgcgcacagg agagaacctt ggcgctagaa ttacaactta tcaaacacca ctcaggaata 60
 ctgatcccg ccaaccocga gaccagcgat atcctgcaat ccaaaacccg gctcggcgat 120
 gttcttgttg ccgaattcag gcgggttcgc aagccggcat tccatcgacg ctttttcgg 180
 cttcttaatc tccgatttga atactgggag ccaacccggc ggccgatctc aagtaacag 240
 cgttaagctga ttaactggcta cgcgaagtgt ctggcttcgt atggtgtgaa tgagggggcg 300
 ctgatcgatg ctgctgagca gtatcttgag cagggttgcat accgccgggt cacaacggc 360

atcagcctct	gtaaatcctt	cgatgcttac	cgctcctggg	tgatcgtcga	ggcaggggcac	420
tttgatgcc	ttcagctgcc	agacgggaaca	ctcaagaagc	atcctcgttag	catctcgttt	480
gccaacatgg	acgaattcga	gtttcagcaa	ctctataaag	ctgcgctcga	tgtcctctgg	540
cgctggggtc	tgctccgttc	attccgcagt	cgatgatagg	ccgagaatgt	cgccgcgcag	600
ctgcttggtc	tcgggggtg	a				621

<210> 5072

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5072

gcggaggggc	gattcagcag	gacatttttc	cagagtgtcc	aaccagcgcg	cggaaatgaa	60
tgcgtgtatc	atttccacgc	ggaggcacc	ggcaccactc	cctcagttat	tgccaactta	120
gctatttatg	cctgcttttc	cgagcaggct	tttttttcat	ttattaatca	tccatttgac	180
ctgcctccgc	ttgattag					198

<210> 5073

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5073

aagcagatgg	cagggcgatg	tgaggaaatg	gtctgttatg	agcgagaagc	ggactctacc	60
gtggatttta	tcaacactca	gggtttgctt	ttaaaaattg	ttatccagtt	ttactgcatg	120
aggtatccca	taattgtctc	accgttttac	tcattttatg	tctcttttat	ctatgacatc	180
aatggttaa						189

<210> 5074

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 5074

atatacatac	tcgcgatctt	atcaagagtg	gcattgtcgt	cgaaaagatt	gtattgtgcc	60
tggtctggcg	agaaccttcc	tattttattc	tcgggatata	gagcaagcct	gcccttttca	120
tgggcggaag	aagttaccgc	tgttagtcaa	acacatgctt	ccgatgaagc	atattccgca	180
gcgctttctg	tattcggtga	aaaagatttg	gttgaactta	ccattgttat	tgcaaccatg	240
aatgccatta	atcgatggg	tattagtgtt	cgaatgaagc	cgcttgctaa	agcttga	297

<210> 5075

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 5075

gcgagtttga	aatcgccacc	actggcggtt	aagaggcacc	tcgatgaaact	acgtatcaca	60
agagcaatcg	gcctcagcaa	gttctcgcca	cggtgggtta	aggttatctg	ttacgggttg	120
actaaaaacg	atattgagcg	ctccctcaac	gctcttctgg	ccacaatcga	tgaattcgaa	180
cttaccctcg	agcaagtcaa	agcattaaag	gaatgcattg	acagaattaa	catcgcaagg	240
gggaagggga	tgcaggcggtg	a				261

<210> 5076

<211> 822

<212> DNA

<213> Enterobacter cloacae

<400> 5076

tgggcgcaagg	acaatcagca	cagctcagaa	tctgataatt	taagtctgtag	cttactcggt	60
aaactttttc	cgagtgcgat	ttcgtttatt	agtagttacc	gtgcattgtt	aattgttattg	120
cttgtgcatg	gatattctgc	atatcaaaact	gggaactctc	ttctccagcg	tcgcctattt	180

gggaaaggat	ttagtacagc	cgctgattta	gcttttgaag	tggaacacg	tccaggtagt	240
tttttggttc	cggtacact	cggaaggaa	attacatggg	agaggttttt	ttctgcggtc	300
ttggacgggt	attccaatgt	aattcgtgaa	tatgatacaa	atgatattga	ctatgggtatt	360
tacgatgcgc	gtgaaaaagt	gacttttctg	aatgggtacag	tggtatctta	taatcccaag	420
aagattccatg	agttgcgttc	taaatgtgtt	gatatacaga	atgactactt	tatgcagggtg	480
ttctttatct	caatgtctgc	accagagttt	gtaagtattt	tttttggttt	aaaaccaact	540
acagctgatg	ctattaaaga	cattgggtta	tcatcgttaa	aaacaattaa	cgatctcggt	600
cttttcccac	gtacaattgc	ttctcacaaa	gggcattatg	aagagagtgt	ttcacttaaa	660
acgaaagtgt	ttgcttgggc	ttatgaattg	tctgctgaca	tcgggttagg	aaaagttagt	720
gatgatttga	tggaactatt	acgttatgac	actatgttca	ccagtcaacc	tcaggatgtg	780
ttcaacactt	tacaataata	agttatgtta	aaggattatt	ga		822

<210> 5077

<211> 453

<212> DNA

<213> *Enterobacter cloacae*

<400> 5077

ggcataaaaa	tgaaaaaaatt	aatgatgtta	gtcataagtg	gtaccgtgct	ttcaggttgt	60
gtctgcctg	cgacgcctat	aaacgcccac	tatcgogctc	aattagagcg	ttcgggatgc	120
acgcaaatga	gcgctggcaa	tggtctcttc	gatgtcagca	aaaccaaagc	ggaaaaacacg	180
gcacaacacg	aaccaacggc	atccgttcac	gatccccctg	gtgaagcctc	gttctcgtcg	240
gatacggttg	acgcacagct	ttctaacggc	tttttttagc	ctaccgtgaa	cggaacaaaa	300
gccagcgtaa	aacgtctgaa	tgcgaaattc	tatgagatcc	atggtaacgg	ttttgtgata	360
tcgataagcc	tggtatgaaa	cggattatag	gacgcgtcat	ggaataaaac	gaaggggacgc	420
gaacacggcg	ttttacgcgt	tagtcagaaa	tta			453

<210> 5078

<211> 225

<212> DNA

<213> *Enterobacter cloacae*

<400> 5078

gggtgtgttt	tagaatggaa	agaatcattt	cggtagctat	tcgataatca	atactataaa	60
aagatatttt	tactcaatga	aaaacacaa	agtcttttctg	atatgtgttt	taattattac	120
gccattatct	gtctcggtat	tttcaacggg	tcagcatctg	gatctgtctg	gaaaacaggt	180
gatgaccaca	gaaaatgcaa	acgatcgtct	ggagaagcgg	attga		225

<210> 5079

<211> 276

<212> DNA

<213> *Enterobacter cloacae*

<400> 5079

aaagttaaaa	aacagatggg	gcttgaaaaa	aaacgcgcga	atatagagcc	ttttgtcacc	60
gggctcaatg	gtttatttgt	ttactgtttt	gtgacacagg	gcacagggca	gggaagaacg	120
ccgtttgtat	ggggaagatt	gcactttatg	ctaaaataaa	acagcagctt	acgtatgatt	180
tgtcagcatt	gtaaaaatcag	acaaaagagt	gtgacaaaac	gtgcgatttg	caggcgaaaa	240
ggaggcagag	agcctcctta	cgtctgttat	ttctga			276

<210> 5080

<211> 291

<212> DNA

<213> *Enterobacter cloacae*

<400> 5080

atttatcaat	ttcatttatg	gacttttggt	attgcatttt	ataccttctc	ttttgaatca	60
attttctcga	tcattgataa	tattaaactt	tcgcttcagg	gtgagcttat	gtctaaacatt	120
gatgcaacag	ccgtggcgca	cggtattgat	actgtgctgg	atattctctg	cgcaggcgat	180
tatcaactctg	ctatccgtaa	ttttgagatc	ctcaagtctg	aactgctggc	tgagaacggc	240
gctgataaacg	ctccagaatc	cactcaacct	aaagcccctg	gggaagtgtg	a	291

<210> 5081
 <211> 222
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5081
 cagctgggtcg ccaaacatat gcccataggg atcggttcaact tttttaaat tatccagatc 60
 gaggtaaact acgccaacct gcggtgtcacc ccgagcggtg atggcaccag agatcagctc 120
 atggatggca tttcggttag gaaaaccggt aatcgatatcc gtattggcga gaacgcgcag 180
 gcgctcctgg gcccgacgct ccrcggttat gtccgtacct ga 222

<210> 5082
 <211> 336
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5082
 agagaactga ttatgtcaca agaattagaa ttttcgcttc atccaccogt ttggcctgcc 60
 atcgcttatt ttgttgtatc tgttgcaatt tttttcttgc tttatctcgg gaaactaaaa 120
 gttaaaccgg tgcataata ccgcgtattt atcgcatatc tgggtgttgt aatcgctgtt 180
 gcagccggtc agataaacat ctctgtcaat ggcatcagat ttgtccgcag ctttttgcat 240
 atcgattttg acccctatcg atatgaactg gtatatggg gatcattgtt tttctccata 300
 atttacttgc tggcggtgcc ccggaacaag ttttag 336

<210> 5083
 <211> 192
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5083
 aaagcggcct gctggccctt gccgttcagg gaagctattg cgacagggga tggctactac 60
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 caaaaaccata ccccgctcgt tcggcgctg gatatcgatt atctggaata cgatgacagt 180
 cgggtttatt aa 192

<210> 5084
 <211> 720
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5084
 aagtggtgtt gtttgatagt aaggttaagt ggaaaaaagta tccacagcgg gatcgccgcg 60
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 aaaaatccca tcactcttaa tgagctgaaa gccgttgctg atgagaaaag tttcccggtc 180
 tataacgtcg gtatgagtga tgagaacgat catcatctca cctatatcca cctgggcatc 240
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 ggccagggcg cgttgatgto cctgaacatc catccgggtg tgaatttgcg ttaactgcac 360
 gatcctgcgg atgccttctt gtttgcgcaa atcaacaacg gtaacgcgt tctctgtcct 420
 ttgtcaaaag gcttcggctg gggggcgaaa ctgaacgtac gctttatctt tgagaaaagg 480
 tttaaccgac gcaatggcga aggttatcca ccagagcgta aagagccgca ggtgcgtaac 540
 gccgggatcc tgaaccagggt gaaagccggc gtggtgaaag aaaactatct ggataccctg 600
 cgagcaatcg atcctgagct ggttaaaacc gccgtctcag gccagcgctt ccagcagtg 660
 ttcttcgaga actgccagga caaagagatc gaagccttcg tgcgcggtat tgtttgctga 720

<210> 5085
 <211> 501
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5085

atagtcataa	tgagaggaac	cggggcaaac	atgacacttg	atgctttatt	tcagtttaatg	60
aaaattatat	cgccatctga	aactccatca	gatggcaatt	tagcgaattt	tatgaccatg	120
cttatctcca	ctaaaaatca	ttctgacgcc	cttttaccgt	tttcgacagc	cgcgtatatg	180
ctttcagttg	cctatagcga	tccccaaaa	gcagctgcgt	tgctttcacc	ctgtcagccc	240
ggagcaggtc	acccactccc	gtactctaac	ttctccggct	ggccggagct	gcgttaacgc	300
acgtcgggtg	aattacagac	gcccagatct	gaggactatt	ttcaccaagt	ttcgtctgcc	360
gccacgctat	tacgcgcggc	aatcattgat	gctgagcaac	agaaaaaac	gccagcattt	420
tatatctcgt	ataaggtact	cagcctgaac	agcgctttgc	cagaacgtta	taaaaagatg	480
gcacaacata	cttatttcag	a				501

<210> 5086

<211> 810

<212> DNA

<213> Enterobacter cloacae

<400> 5086

gaaacaattg	cagttatgga	aaatgttaaa	cagtcgcac	cacctctga	ttttgtgtgc	60
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gatgacaggg	atcctcctgg	cgaccactgg	ggcactggtt	ggttagtgtg	agaattgcaat	180
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ggtgaatgca	cgaacaaga	acattacgcc	gatagtcact	cccctgtgtg	ggatgaatac	420
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ttaatgggaa	cgaccggaaa	cttatctctt	ccagatggga	tgagtggctc	accctgtgtg	660
aataccagat	ataccgaggt	aaccaatgca	ggcgttatat	ggaccctctg	tgactctcgc	720
attacaggaa	tagtatgggg	gcattcagca	aaaatgactc	gactctctgc	cacggcagta	780
gaatcattta	aagatttact	ttttaagtaa				810

<210> 5087

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5087

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aaacggatct	gcgcgaccgc	cctgcaatgg	gatcctggca	agcgctgcac	cgatttcgcg	180
t						183

<210> 5088

<211> 2016

<212> DNA

<213> Enterobacter cloacae

<400> 5088

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tttgtacgta	ttgaagccgt	acaccgggga	ttcctttatc	agcactttgta	tgccctgttg	120
tgcttgctcg	tggcacagaa	agccagcgtg	gagacagtaa	cogttgagct	ggatgaggat	180
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ttacaaaaat	tctgggcact	cgatggagctg	gttttttccg	agcttaaaaga	cgggtgtttt	1920
gagcaaatgt	cacaattgct	ggaagcgatg	ggagccttgc	ttacagaaca	tgagtttgcc	1980
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<210> 5089

<211> 324

<212> DNA

<213> Enterobacter cloacae

<400> 5089

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gaaaatatgt	ctccacacat	taacgctgaa	gcgtacacgc	cctggggagt	gtataaatcc	120
ggctctcatc	gcgacatcca	cttcgctcag	gacagacctg	cgctgcctat	ttttcttgaa	180
tgtgactctg	tcatgaagc	gatgaacgta	atggccgaat	tcctcgctgc	aaaagcaggc	240
ttattaaagt	ttgagtgcac	tcggcttggc	tcttttatta	actgggaaaa	tctctttgcc	300
gctgaattta	aaaataaaga	gtga				324

<210> 5090

<211> 555

<212> DNA

<213> Enterobacter cloacae

<400> 5090

aacttgacac	gctgggaatg	gcattgacttt	gatcaagaga	gcactgaagt	agaggctgat	60
gaattcgacc	aatacaattt	tgatgttgaa	aaaaatgatg	tagtgaccag	agaatttttg	120
gcaggctcac	ttgccactgg	tcctgcctat	gctatcggtt	ttgtaaagtc	cgaaaaacct	180
agcatgctta	atagcttttt	agggaaatgcc	caacacaaag	cgaagtctgt	gacctatcca	240
gaaagtgggt	cttgggtggg	ctcgtttgac	ctggcgtgatg	gagaaaatag	ctatgagcat	300
gttgagcttg	accttagggc	tctaaggaa	ttagtgatg	gtgtgtctgc	tgcactttat	360
gaccatttaca	atgtttctaa	agcgggtctt	tattttctgga	ttgcagccag	agaagaacta	420
gtcagcatct	atgataaagc	tttgggcctg	gtcccggaag	agacgtttaa	gttgaagcct	480
ttacctttta	cagaaaacct	caatcagtta	ggcgagaacg	ggagggggta	tgccatcctc	540
acgaaatact	actga					555

<210> 5091

<211> 606

<212> DNA

<213> Enterobacter cloacae

<400> 5091

gcgagaacgg	gaggggttat	gccatcatca	cgaataacta	ctgaaaaccc	tacagcogat	60
cagctgtacg	aagaaattac	cgtaaaagct	aagacagcct	cttccaatat	tgctaaagca	120
aagctcgagt	ccggtgagta	tgtgatgcac	aacggcagaa	taataccggc	aagcgtttctg	180

gaagaggcca	atgcagaaaa	tgcaataaagc	aagcgaagga	gccatggtgc	tattccattg	240
ccatcattca	cccggaaagtc	tgaggaagca	aggccaactgg	ttcccgctotg	gatagggggg	300
gatgaacagg	ataatggaga	atggaagggc	agccggaaaa	gtattgtctgc	ggcctcagta	360
caaacatcac	ttcgctctcc	catgcgtgta	agagctgctg	cacattttcg	tggaanaact	420
cagacggtgg	atgtacatct	tgaccattca	gggattgctc	cgaagcacgg	ccagattttt	480
gcgtatgatg	caaaatccgg	acagttttatc	ccggctcattt	ctggtagcgg	aacgatggct	540
caggataatc	gcagagctaa	ggacaggaaa	cacgctggac	tgctggccgc	cagaaaaatca	600
aaataa						606

<210> 5092

<211> 270

<212> DNA

<213> *Enterobacter cloacae*

<400> 5092

cgtcaggcca	ggtcagtaat	gttaaacaga	aatcttgagg	ttctgacctc	atacttcaat	60
gacctgctgg	agtcagcgcc	gcagcacccg	gataatgtag	tcgcaattct	cgccgagata	120
gaaataatga	agtcgcgacc	tgttttctca	ctggagccct	caatcctgct	ggcccgtaaa	180
gaaatcgata	atgtgcacaa	atgtaagaag	cagggtgctct	gtgatgagtg	gccagaaaacg	240
ctattttgtg	gtctcccggt	atccgactga				270

<210> 5093

<211> 210

<212> DNA

<213> *Enterobacter cloacae*

<400> 5093

gctcgtgcac	gtagtgtgag	cacaggagga	gtgtatgggc	acaatcatga	cttacacctg	60
aatttaagaa	agaagctact	cactatcaca	gacacacaga	acagaaacga	tgaccttttt	120
aaccaggtca	gcaggaattt	aagttttatat	ggcattgaa	ttgaagatat	tacggtcact	180
caacatctta	acgtcagggc	aggtcagtaa				210

<210> 5094

<211> 825

<212> DNA

<213> *Enterobacter cloacae*

<400> 5094

agtcgagcacc	tgttttctca	ctggagccct	caatcctgct	ggcccgtaaa	gaaatcgata	60
agtgcaaatg	atgtaagaag	cagggtgctct	gtgatgagtg	gccagaaaacg	ctattttgtg	120
gtctcccggt	atccagactga	ttccgagcct	aaggggattg	ggttttcgct	tggttggtgat	180
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cagtcggcgcc	aagtcgcgtt	ttctggccgg	gagactgact	ttgttcccgg	aagccaggcc	360
ctcaatggagc	tgaaaaaagac	catccttaag	tcgtcatggg	ttcttgctcag	aaaccggata	420
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acagcctgct	ttctggctgg	attctttgag	attaaaaattg	gtgaagtttc	aacagcgtcg	720
atcccggtata	acgctatcat	tgccgtggcg	gccgggatat	tttttggct	gggtgagctc	780
tcactggcca	caagactgtc	aggcaagggt	aaaaactcta	tttaa		825

<210> 5095

<211> 363

<212> DNA

<213> *Enterobacter cloacae*

<400> 5095

gcgcattcgc	caaaaactat	ccatttaaat	acatttcaaa	aatggtttga	tttactttat	60
aaatcatat	atatgtctag	gaacaaaaat	gaatttatct	gttcagaatg	cattaatgaa	120

aaaataggaa	gcagagttgg	gtgggtcata	ggaggactga	atatttatgg	gattgtacaa	180
cgctgctgcg	atagcgacga	taatctaaaa	aatttctgcc	caatatttta	taacgcotta	240
tatagagagg	gggttagaaat	gatgtatttc	ttgatcgaa	ccatgatcat	gaagtcttgc	300
tatctaaata	ttagcacagc	atctgatgaa	gaaattgtca	gagcacttaa	gagaatgatg	360
tga						363

<210> 5096

<211> 507

<212> DNA

<213> Enterobacter cloacae

<400> 5096

ttcactcttc	aaataaaaa	aatgaattct	tttatggata	ctttcaaaa	tgagataaac	60
atcactttgc	ttggcaagga	catgttcgat	gatcgaatga	acatagcaag	ggagcacggt	120
atgtattaca	gcgaagaaat	tattaaagca	cctggaactg	acaaagagct	agctgtgcgg	180
ttagataaag	cgtaaatagg	cgtaaagaa	ggtgtacaat	attatgtaaa	tggtcttggc	240
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tgtaaaaaac	ttggttctga	agatgtcaga	tttatttgcg	ctctatatga	actagtcaaa	360
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agcgatgtag	aaaagaaaa	aatccttgaa	aacttaacgc	cattcgccaa	aaactatccc	480
attaaatata	tttcaaaaat	ggtttga				507

<210> 5097

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5097

ccgatttcgc	cggttgagtg	tgacctgata	tgcaaatgce	agataattat	tgctgatatt	60
catctaaatg	ctttttcacc	cgccagttcg	ctgcttattc	cgcaagaatta	taagaaattc	120
ttttttggtc	atttaaaagc	tgataacggc	tgtttactat	cttttggaca	tccatactgc	180
taa						183

<210> 5098

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5098

gtagagcacc	gtaccgacgg	taaaaggcttc	cagggcatgg	gcgttgtaac	tttctatctg	60
gcgaacctgg	taggtcagtt	cgccgaagcc	aattccgcct	gcgagcgagg	agagcttcat	120
caggttaagg	tactggccaa	gcacgggttg	ccaggcggtta	gcgagtcctc	gtggcagaag	180
aattgtagcga	aacagacgcc	atga				204

<210> 5099

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5099

gtgacatcaa	atgagcgtgc	agaagaaagt	gtgcctgagt	gccagcccaa	cgaaggagag	60
gagaagtgtg	acgtgtgttt	ttgtattcca	agcgctgaaa	ccattcaaca	gggatttggc	120
gcgcattata	cgctgatatta	cagtaaaaa	gaaaatggaa	acagcgcttt	aaaaacaatc	180
tgtgcagatt	cacataagtt	tgttatcaag	gcgttaaggc	cataatgcat	cttatga	237

<210> 5100

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5100

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gcgacagtag	atgcggagaa	cagcgcgcaa	cgtgttcttg	agtcacaaact	cgcgtgcgoc	120
agcctgtatg	cggtggacgt	agccaacatc	gaccgggagt	ggttccatga	taaaacgtca	180
cgctga						186

<210> 5101

<211> 1319

<212> DNA

<213> Enterobacter cloacae

<400> 5101

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ccacaggcac	atgtttgtatg	cagttattcc	cacacccctcg	cgatgatgac	cattatgatg	180
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accgtaagct	ggcattcacg	accgtccctg	aactaacgct	cggtatcggt	cgtttacctg	1260
aaccactccc	gcgaataccg	gtcttcaacca	caggggcgca	aggatccggc	cataggttta	1319

<210> 5102

<211> 573

<212> DNA

<213> Enterobacter cloacae

<400> 5102

accgatagtg	aatcagccga	tacagcttca	cttctgagca	taggtctttac	tcacacctac	60
cttcaaaata	gtcaactcat	tggccgcgca	tcaaaagcgg	gcttttttta	tttcaggctc	120
aaggaaacat	catcgacacg	cctacttggt	aaatcgctcc	gagggcctga	cctaattcaat	180
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tgggcaatct	tcaactggaa	ttttccccc	gagctttgct	ggccccatcc	ggctggcgctc	480
gggtatgtgg	gggtggattc	gcttttcgcc	tatgcgcgoc	gtcgcccttg	cctgaatgaa	540
ccgggagaca	aagcaaatgc	tgacctctag	taa			573

<210> 5103

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 5103

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acgaagatca	ttatttcttc	ccgtccagcc	acaaaagaaa	cgatggattc	cgcaaccttc	120
ctcgatctga	gttgaccact	caaaagaaat	cagttcaccc	gtggtcagaa	cgaggatata	180
gacgtaacaa	cactttgtct	taccgagcag	gagaacatca	acggcctgcc	ttctccgtca	240

gaaatctctc	tgctcggcaa	cttctacaag	aatccggcgc	aggaagcctt	gcgtgaggcc	300
tatgacaacg	atacgacctt	cgctttccag	gttatcttcc	cgctccggcaa	ggcctttaag	360
ttcctggcgt	aaatccggca	gcacacctgg	tcttcaagta	ccaacggcgt	agtggcggca	420
acgtttctcc	tgcccttgaa	aggtaagcct	gaaaacatcg	agtcctggctc	ctga	474

<210> 5104

<211> 441

<212> DNA

<213> Enterobacter cloacae

<400> 5104

gggctaataa	tgacgatctg	gctgggagcg	ttaaagaact	tgctggcgcc	gttaacaggc	60
aaaacgttgt	catgtctgaa	gtcgagaaac	aacgggctga	gtcgcccaag	cagaaccgaa	120
tgctccagag	cgagattaa	cgctacctgg	cgccagataa	gtgcgctgct	gctcctgttc	180
ctgatgcgcg	tggtgagcgg	ttgcgcgcag	cagcagaagc	cgcccgctga	ataccggggt	240
ataaagcatc	cagccctgaa	ccttccggcg	gaagctgacg	cgcccgctga	tgctggcggt	300
ctgccagaca	atccctcata	cggtgacagt	gtttcgatga	acgcgacaac	ttagcgggatc	360
gtcggctcgt	gcaacatcga	cggggaagca	attcgcaaaa	ttgagaaaag	gcgaaatgat	420
gaaaaccaac	cagtgcagtg	a				441

<210> 5105

<211> 702

<212> DNA

<213> Enterobacter cloacae

<400> 5105

agccaagaca	gcacgcgaac	gactgaacag	aaattaagta	acgaggtgaa	gatgactgaa	60
tccaataatg	gttcagggct	tccgcacgac	catgctgcct	gcattgtgga	tggatgcgaa	120
ttatcggtaa	gatcccgtaa	cagccactac	tgtgaaaagc	attacatgcg	cgctccggct	180
catggaacga	cagagaagct	cagcacaaaga	aaggatggca	agctggagca	cactggcgga	240
tatctgctgg	tgtatgcgcc	cgatcatcct	ttggcatgtg	ggagtcctcg	tggttaacag	300
caccggaagc	tctattacga	caaacatggg	gctggagcgt	tccgttgtca	ctggtgtgca	360
aaaacgcttg	gctgggacac	ccttcacatc	gaccacctcg	atgactgtaa	gaccaataac	420
gagcctgaca	atcttgtgac	aagttgcctt	gtgtgcaatc	agaagcgagg	cgtagacaa	480
atgagaaaga	caatgcgaga	gaactccgac	cgccagatata	ccgctcacgg	caagacgatg	540
tgctcttaac	aatgggcgga	ttacctgggt	atttcagaaa	actccattga	gtatcgactg	600
aaggcaggct	gggacatcag	tatggtgttc	agccctcgca	ttggttaacag	tggtccccc	660
agccggaaac	ttggcgaat	cgctgatgag	tcggttaaat	ga		702

<210> 5106

<211> 465

<212> DNA

<213> Enterobacter cloacae

<400> 5106

gcaggggatc	gaaaaatgat	tgagacgagc	ctcgattttt	ccggcctgaa	tgacatcgca	60
aaggatctcg	aggcgcttag	ccgcgctgaa	aacataaagg	ttcttcgtga	tgccacgcgc	120
gccggtgcgg	aggtgcttaa	ggacgaagtg	atcgcacgtg	caccggtagc	caccgaaaaa	180
ctgaaaaaaa	acgtggtggt	tgttacccaa	aaaagccggc	gcgcggggga	gatttcttcc	240
ggcgtccata	ttcgtggcgt	taacctgcgc	accggaaaac	gcgataaac	gatgaaggcg	300
aataaccgga	gaaacgcctt	ttactggcga	ttcgttgagc	tgggcaaccgc	gaacatgcct	360
gcacatccgt	ttgtgcgacc	cgcttacgat	actcgcgagg	aagaggccgc	cagcgtcgcc	420
attgccagga	tgaatcagcg	tattgatgag	gtattgagca	agtgaa		465

<210> 5107

<211> 288

<212> DNA

<213> Enterobacter cloacae

<400> 5107

aaacatcgag	tctggctcct	gagaggtcgc	atgaagaata	ttaaaaaatc	cgccctggct	60
------------	------------	------------	------------	------------	------------	----

aagatgtcgg	gatttcgtca	taagacggtc	gccgttcctg	agtgaggagg	cgtaaaagt	120
gtttctcgtg	agccgtctgg	agaagcctgg	ctgcgtctgg	aggaggtggt	gaaagcgggt	180
gctgatgatg	aaaatgtgtc	ggatcgggaa	aaggcacacc	gtaatctttg	cgctgacgtg	240
tgctcttcat	tgacattcga	ccacggcggc	tgatagatc	cacgctcc		288

<210> 5108

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5108

gttgaagg	gtaattgtcg	agaggtattt	cagcgcgcca	tcgctttatt	ccatcaatgc	60
ccggaaaatc	cgtttacgtt	tcagttaaac	gagtttatit	acgattgcgt	attattgac	120
cgtaataaca	atgacaaaag	ccacctgcgg	gtggctttat	ttaatggcgt	taaccagcga	180
gagggatccg	gcacaaaacg	tgcgacagaa	ataattagcg	ttgtaacctg	a	231

<210> 5109

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5109

accttaaatg	gagggatatt	cogtgcggta	actgacgata	accggatggc	gaaggttgag	60
aaagtgatgg	gcgaggccga	tgcgacggcc	tgcgccagtg	atcaatatgt	ggcggttgctg	120
cggtgtgtcc	atcgtaattc	cttttccagt	tcaacaatgg	gacaggcgac	gctatcccat	180
taa						183

<210> 5110

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5110

cttttacaag	ttaatttaatt	gttaaatgagt	tgttctatta	tggcgctata	tcattgtttt	60
accgcttcgt	ttgcgcgatt	tatcggtcct	gaaggcggaat	ttaaggtaaa	tatctctgtc	120
agtaaccocg	atcgcttatt	tttcacagat	aaagtaatct	tcaccacgcg	gtcgacggtc	180
aacgaacga						189

<210> 5111

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5111

ggtattcata	tcattccat	tcaaaaagta	ctgattaaag	ggaatgatac	acgcagagag	60
aaaattcaga	cagagggcgg	ggaagacgc	gtgaccggga	accgggtcac	gcagaatgat	120
tcacgacgtg	cgccgatcat	ttttccagt	ttttcctggt	cgatagcaaa	cttacgggata	180
ccgtccgccca	gtttatctac	ggccattgga	tcctggttgt	gctgccacag	gaactcggac	240
tcggtgatgc	gtccaggcgg	cgctttcact	tcgccagtgt	aa		282

<210> 5112

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5112

cctgtgctat	atctgtatgt	aatgcagtc	cccttcacgg	atcgaaagga	tcgatgaatca	60
ggagggtctta	tgaatgaatt	caagaggtgt	atgaacgtgt	ttaccocact	tccttttaaa	120
gtgcgcctga	tgctgttgaa	catgctgtgc	gatagtgtta	acgccaaacc	ccagcaggac	180
gacaaactct	cccactaa					198

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<210> 5113
<211> 525
<212> DNA
<213> Enterobacter cloacae

<400> 5113
aattttacagg atgcattgat gaaaaggata tttttatcag tcgctatgtt gctgggtgga 60
tgtagtctctg ctgccagtcg agagcagagt gcgaaagata ctacogtatt attttataaa 120
tcctatctctt gtgcattcgg cagtaaatgaa gccaggccct atcctgcgca cgaactgcgt 180
aaatatgttt ctgctgatac tattgctcgc attgggtgcta ttcaggaaat cccggaacaa 240
gaattaatag agtctgacta ttctacgtat acccaggatt acgcccgcga atggatacct 300
gcgttaacggg tggaaaacgc aaggccattt ttaaaccggg aagtagtcca ggtgatgaa 360
ggggcagggtg gcgggaggag cattcacctt gaagtatttc ttctgctgta agatgatgca 420
tggaaaatct accgcgttcg tgacttaacg aacaatcacg agcatcccat attcaatgcc 480
ggagcaattg cccaggcaaa aattgcagcc gaaagcgggc ttttaa 525

<210> 5114
<211> 441
<212> DNA
<213> Enterobacter cloacae

<400> 5114
gcattattta accaacatca ggtaaatgac tggcacaata attcogttct tacttactta 60
agggaactaa gaatgagttg gaataaagat gttgctgttt cgtatctcgg ttccacacgcg 120
ctggggcact ctcatagtg aatgctctaa tttaaccgtc tggcgattct ggctggaggt 180
gttaagggtgc ctaatacaga ttatgcaaaa gattatgggg cggaattatt acgtgctgga 240
ttccgtgagc tgcgcggcgg ttgcacttta atagctggcg atgtggctgt gatacagcct 300
tatcccgagg gaaacggcat aggtcacatg actatgtatg accggcacga gtggatttct 360
gattttgttc aaaaaagcat gatacgggg cctgggtacc gcaaaatgca accatcattt 420
aaaatttaca ggaatgattg a 441

<210> 5115
<211> 192
<212> DNA
<213> Enterobacter cloacae

<400> 5115
aaacgggggc gagctaccgg ctggtattac gcgacgcacc cgccctgaa aacgggctgg 60
atgcgtttcg cgctgtctg ctacgtcgag gtgacgtgg tgtttcatca cccgtttgaa 120
gaggtcaca cgggcacgca tgaagcgggt ttcaagcgca aaacctgcac gttatttcac 180
accaatacgt aa 192

<210> 5116
<211> 210
<212> DNA
<213> Enterobacter cloacae

<400> 5116
gattgaaat ttccggcga tccttcggag caatacacca gcgtttttgc gcgcacgggtg 60
gaactgaccg tcagtgcagc aagcgccagc gttatcattg tgaatgtgct tttcatcatt 120
tattcctgtc tttttaattc gacggctaatt tacttctttt gccatttcac aaataacatt 180
aaagtgatgg cgcaaacaca tgaataataa 210

<210> 5117
<211> 522
<212> DNA
<213> Enterobacter cloacae

<400> 5117
ggatgtcttc actatgtctg cettgtgcta cgcttatttt atgggtgcga attagatttg 60
cataagatgt gccagaaaag cagcattttt acacgacaaa acagcaatat agcgagtaaa 120

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gagggtttta tggaaatgga ggttgttgag actattgcga gcccggaag cggaaactatc 180
ttttgcaaa ttgaaacaca gtatggcctg aattatatcc tgtgtttaa gggagattat 240
tacgttcgta caggtgaaat catcaccacc tcaaaccagg ggtactctgat aaacgactga 300
cgccgtagag tatggatagc gcaggcaatg cccctttacat ccataggctg gatgggggttc 360
aaacagaaaa acgctgtgtc aggcaacggg caagagatgg atcgtccgtg cagggctgaa 420
accccggtgc agttcaaac gtgcccgctt ggcttaaaac ggtatatctc ggaaggttat 480
tccacgacga aaattaacaa ccatacctgac ggcagggttt aa 522

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<210> 5118

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5118

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atagttgagc aaataactca ggtattcagt acgacattgc tcacattgct ccagttat 60
cttgcccaact ttttagtggg cttttttttt tgccctcaacc caccaaaatc tggcgttttt 120
tctgtggagg tgaacgccta ttctctgttg ctcttgaata accaaaaagc gttgataaca 180
tga 183

```

<210> 5119

<211> 843

<212> DNA

<213> Enterobacter cloacae

<400> 5119

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cgaggtgggt ttctgatggc taactcattc aagcaaatga cccgtgacgg gaccatcaag 60
cgacccgata cgggatgtt catcagcctt gaccaaaatc atgtgcggga aggtttcaac 120
aaacgcgaag atgatgagcg taccgcgcag gcagatgatg acctcttcaa ctacctgatg 180
aacggtgggt ctgttctctc accggaagtt atcgcccgcg atgaaggtgg agtgtggggt 240
gttgaagccc accgtgcggc tcgctgctat gcgcgctgtg cagaagcagg taagccagta 300
gaccgtatcc acatcatgcc gttcaacggg aacgatgttc agcgccctgg ccgcatactg 360
accagtaaca accagctccc gctatccgat atggaacagg ctgctgttat tcaggagcct 420
cataatgctt tcaaccagac caccagcgag atagcaaaagc tggtttaataa gtcgtgtccct 480
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tccgggacgg tgtctgtaga tgtggcggtt gaccgagtaa aagagtgttg cgaaaaagcc 600
ggtaggttgc ttcaagaagg taaagcttct gctgctgcca aaggtaaaga gaaagtcaac 660
cgcagcgtta tagcgcagaa aattagcgtt aagaaaagcgc gtcgccttgt agagctgac 720
agcctggcgg gtataagcga cacagggtgt atctatctcg aaggattggt ccatgcagaa 780
gtcgtggaga ttatcgacga gcacaaagct atcgccgttc agcgtcatgg agaagcatca 840
tga 843

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<210> 5120

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5120

```

tcagcccgaa gtccactggt caaccttcca cttgaagaag cgtcagacat tattcgtgaa 60
agtcttcoga ctgaggttgc ccacagcgtg gaatatgaat acgatgacgg tatttcttct 120
gctgaagaag aggcgatctga ttgggaatca cgggcagaca gttacgaatg cgatgcgatt 180
agttttgcca gaggcataga gaaagccttg ctgcaacca cctgggatga agcaaaaaatt 240
attctcgaac gcgttgcttc tgataatcgc gaatatcttt aa 282

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<210> 5121

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 5121

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tacttaatga atatttacga atttggcagc attcaagtgc cgggattcgt gcaacaaaaa 60
ttcagcgtg tgcagagcgc tcataaacag gaaaaactat ccatgacgaa cacacagaac 120

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gtcaccgagt	tacaaccacg	tatgaccogg	gagcagctga	tcgacgcagc	gcgtaaaggca	180
gccctctcc	ttccgccagc	ttatcgccgc	attatgaccg	aactggctaa	ccgcctggac	240
tataccagcg	tcgcgctttg	tgaggcgatg	gctcagcgta	aggaaactggc	tggtcagaac	300
gctactctcg	gtgaagatgt	cgcaagctgg	gccaaagagt	gtgaccgcat	tggtgaacgc	360
cacacgaaga	gcagaaccaa	tatgcattta	ctggaagccc	agcgagaatt	gcgtgagcta	420
tcacccatcg	tcattttccc	aaataacgag	gtggctttct	ga		462

<210> 5122

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5122

ccagtttctg	gcagtagctt	tgcgagaaga	agtatgtttc	agttaaaacc	gggcagcatg	60
gcgatgatcg	tgggtgcgcg	tacggcggca	ggccgtcgaa	atatcggtaa	atccgtggag	120
ctgtttggcc	ttgttcagcc	ggggccagcg	tttgtaaaacc	cggttaacgg	cgctatgacg	180
caattacctg	atacatcagc	acgtgcgctg	tggtcggtca	ccggtgatgt	ttacgccttt	240
gataaccagc	acggttttgc	gttgtttcgc	ccggaacatt	tgatgccgct	aactcccgac	300
gagatgccac	acaacgtgga	tgagctggcg	atcggttaa			339

<210> 5123

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5123

gttttctcac	catatgccat	accgggtcat	ggatatgagc	tggcagatag	cgaacatcac	60
cgccgtgata	actacaactt	tgactggagg	cattattcgt	cctcctctcg	accaaggtat	120
gaaagagagc	tgatgccttt	tggttataaa	tcategccag	aaatcaactc	cttcaacttg	180
tctaatacag	cctgcgattt	tatgcggaaa	gtaagtga			219

<210> 5124

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5124

attcttctga	aagcggatga	gggagaggct	aaaaaaagcc	ccgatgttga	gatcggggca	60
aaacatcttg	attacggaat	gatgttccct	ggtcagtggt	agaacaggta	tcactataag	120
agggaatcgt	cgagggttaa	tgagagaaac	atggagaaaa	cggcgatgac	ccgttactct	180
gacgttttta	caccctga					198

<210> 5125

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5125

aataattact	ggcagcgga	cgccgatgac	cagcctgcgg	agttcggcta	tttcgtcgcc	60
ctgctccatg	actctggcgt	acaggtccga	ggcttcacct	ttccaccagg	caacgtcgcc	120
ttttaaggcg	cgacggcgcc	gctgtttaag	ttttctcacc	atatgccata	cccggtcatg	180
gatatgagct	ggcagatagc	gaacatcacc	ggcgtgataa	ctacaacttt	gactggaggc	240
attattcgtc	ctcctctcga	ccaaggatg	aaagagagct	ga		282

<210> 5126

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5126

tggtgtgtcg	tcccggtcac	gtcatcagac	ataacgattt	cacctgtgat	ttgccaatac	60
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gtagcttgct	acattagcac	gggacggaga	gggctgaaa	aaaacagcca	gcgggagcgc	120
tggtgtgtg	gtcatgcgtt	gctggtggat	gactgtttct	ggagcaattc	gctaaaaatt	180
aactga						186

<210> 5127

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5127

ccttcattct	ccagggttaag	acgcaggagt	gcgcgatat	cgtggtcatt	ttctaacagg	60
aggatctgct	tcattgggtta	gccttcaacc	atttgttatg	tcgttaagctt	acctgatttc	120
gagcggggga	agagttccaa	ttttgttgaa	cattgtgtgg	ggtttatgac	ggggggcgcg	180
ttcgccctac	ccggcctacg	ctttgggttaa				210

<210> 5128

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 5128

gcctgtatca	tgtcatcaaa	aaatcaatcc	cagtattttt	caattgctgt	atacatccct	60
gaggagttag	acgagacttt	tgtagaagaa	tgcagtattg	tcggcattga	cgccaaaaga	120
gtacaattgt	ttctctccaa	tcaggccata	cgtgaatatt	tgagcatttt	agttgaacct	180
gggcagaagt	ttgcgccata	ccttcttaag	gtactgaact	tgttgagctc	aaaatccaaa	240
ataagaattg	aagtgcgagc	cgatagaaaa	atcatagact	tacaagggtg	aagtgttgat	300
gatgctctaa	agttgattca	agctgctgat	gccattcggg	taattgacca	gcaagaacct	360
gaagatatga	acagtgtattc	cgcaaaacac	acaattctga			399

<210> 5129

<211> 315

<212> DNA

<213> Enterobacter cloacae

<400> 5129

aacgataata	aaaaccggag	taatgtaatt	aatgataaaa	aaatacaaat	agttgagcta	60
ctgattttac	atagtcaaat	gttgttacga	tcacagagact	atgacgaaaa	gctgaattac	120
tggggaaaaa	gcaatgtttc	tcaagggtgt	gtttctcaca	aagattatgt	tattctcgac	180
ccattaccag	aggagcattt	tgagcccaac	gtcaataatc	aaatagataa	ttctttttata	240
ttagatgaaa	ctgtctcaac	ctgcattgta	gtgccatttt	ttattacaaa	taaaaataag	300
cttcaggctc	catga					315

<210> 5130

<211> 687

<212> DNA

<213> Enterobacter cloacae

<400> 5130

actttacaga	aggaatcatc	catgaaccaa	tttacagagg	acctacataa	tgtagtagct	60
caaatcttag	ccggcgacga	aatctctgat	agtgaatttt	tcaagaattt	aactattgaa	120
cctgattttt	acaaggttga	ggaccagtat	taagggtgaa	atggatatcta	tttcaactct	180
gaatcagaaa	ccgccttttc	actgcgttag	aaatccaaag	gtgtattgta	tctggccacc	240
acggcattta	cagggtctgaa	agagttttat	caggatgtct	cgcttggtga	aactgaggat	300
cttgagaaaa	actgtatggc	ggttaattcag	cgagcacgca	caatcaagat	tattgattta	360
gtgcgcctgt	cgccccattc	gaaaactccg	ttaggttatt	tgatgggctc	taaaagtctc	420
tatgaggata	ctcagtggtc	ggcagaagtg	ctttctcatt	atgctgatgg	tattgaatat	480
tttgtctcag	acacggcgaa	aaactgtatc	cggtgtgtgt	ctgacacagt	tgatggaacc	540
ggaaatgctg	agaaatcttc	agtcactccg	ttaatccagt	tcagttctaa	cgacaaaagt	600
acgcaggcga	tcttaaaatc	aaagctgggt	attcttactg	tcttcaccac	agggggcgcg	660
gcgaaccgcg	ctaagcaagg	cgggggaa				687

<210> 5131
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5131
 actccaattg aagcaattaa gggtagcgaa atatatcctg gcggtttata tgcgctgggtg 60
 ttcaagagccc agggctttta catggatgat tttccgtccc tgcggggccg gaattcagcc 120
 ccgggcttta tgcggcttaa ccgggacctg gtttcacagt gctcatattt tccttcattt 180
 gaatga 186

<210> 5132
 <211> 306
 <212> DNA
 <213> Enterobacter cloacae

<400> 5132
 ggaccaaaaa tgaaaaggac gctttgtaca gtgctgacgg cactcacgct ggcgactgcc 60
 ttgcctgcta taggcgtac caccgaagca ggtagcacca gcgcagcaac aaccggaaca 120
 acaaccggag caacggtggg aactaccgct ggcactacgg ggggactggc ggcaggggcg 180
 attggggaca ccgctgttgt caccacogct gcgattgcgg gcgtagcgac gttagccgtt 240
 gtgcgggcaa gcgacagtgg cgatgactca agcaatggta cttccacgac gacagttacc 300
 cgctaa 306

<210> 5133
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5133
 tgtagcgcaa agaaaatagc gccgcacttc agcctattac caggccagac gaaaacgtct 60
 atactcgctt caattagcgg ccaagacggc gaaaggatgc aaaactatta tggctcactc 120
 acatttatta gcagaaagaa ttcccgccct cagcagtgcg ctggaaaaag gcctttacga 180
 gcgtag 186

<210> 5134
 <211> 255
 <212> DNA
 <213> Enterobacter cloacae

<400> 5134
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 accgtaggac gaggtcatgg ttgcaggctt taccgttctt tacgacgttg cctggccatt 120
 gctgacttgg gtggcgcca taatgtagca ccgttataca ttatgagcta tcactcgctt 180
 ttgtttaaaa aagcggcaat tgcggagtgg ttgtatttgg ctattgttaa atctgcgttc 240
 ccgcatgctt cctga 255

<210> 5135
 <211> 339
 <212> DNA
 <213> Enterobacter cloacae

<400> 5135
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 cataaggaaa atcgatgac tgtattttcta atcctcaccg ccacgcata tggcatcttc 180
 aaagccggct gcttcacctt attagtggtc aagggggtatc agggctggac attgtcttgg 240
 aaaaactatg accgtctccc tcatacacc cgttcccgct gccgatata gagacgattc 300
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<210> 5136

<211> 324

<212> DNA

<213> *Enterobacter cloacae*

<400> 5136

ctgtttctgg	acattatcaa	tctgtttatg	gatcgccaga	ttcagcgtga	gcatatagaa	60
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actacctcca	acgcacattt	ctgccgttaag	acgggtttccc	tgatgttcca	gcaccgcata	180
aagatctata	ccacgtcgtt	tcacctcacc	aagtacatcc	acggaaggcg	tttcgaaaca	240
cgcatcatac	tggtctataa	actgctgata	ggctatgccg	gcattttcaa	atcgctcatc	300
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<210> 5137

<211> 282

<212> DNA

<213> *Enterobacter cloacae*

<400> 5137

gtgtctatttc	gtgtcttttaa	ccataaccct	tcgagcacgg	ccaggaaact	ggccagacca	60
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aaatggaagg	catctaatcc	gaacatagtt	caccttaacc	ccgataatac	actgataatt	180
aattatttct	tatcaaatca	gagcctcgat	gagaaatttc	gactattgaa	aacaatcatt	240
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<210> 5138

<211> 570

<212> DNA

<213> *Enterobacter cloacae*

<400> 5138

gcaatgacac	aggcgcgacg	cccgccaccg	ctgcagcggc	gggtgctgat	tgtgctggcc	60
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caggccgggg	acgcccgggt	gtacggggccg	aacctgcgcg	cctcctggcg	gcgcgatggaa	180
gcagcggggc	ggctgcgcac	cctgcgcgcg	cctaaccagc	agctggccgt	ggagctgacc	240
ggggccggac	gcgatgtggc	ggaacgcgct	tatcaggcag	cccgatgatg	cgaaatctcc	300
cgccagcgcc	agttgaaggt	gcacagctcg	cccttgccgcg	agtcgacaac	cgggtgaggcg	360
gtggagggtt	ttctcgtgta	cagccctcac	cgtatctgtc	aggcagccta	cgtgatccgg	420
ctcgagcgct	ccacctgtct	gcaagtgcac	aatgcagggtg	gaatacgtca	gataatggaa	480
ggcgatcccc	tgcagggtgc	tgaactgtat	cagacctgtt	atgacgcggg	tcttccggta	540
catatccaga	ttaacgagag	ccaggattag				570

<210> 5139

<211> 306

<212> DNA

<213> *Enterobacter cloacae*

<400> 5139

ttcgcttgta	aaggcgattt	catccctgac	ctcgggtctgc	tgaccaacaa	tcacaaactg	60
tctcggcgctc	agacggtgaa	caagaacccg	atattgtaca	ccgggtgatg	tgccgtttctg	120
aaaaacttcc	ctcacggggc	cgggcaaatg	aaaggtgatg	cctgtgtcat	cgtttttgcgt	180
accgcagacg	gtgagatatt	ccaccagtat	tttgccatcg	ctgtccctctt	cgccctctct	240
ttgccccttt	atttcgggca	gcgcgttatg	tccgggggac	ttcgtgacgt	aagctatctg	300
ttttaa						306

<210> 5140

<211> 297

<212> DNA

<213> *Enterobacter cloacae*

<400> 5140

ctaaaccgga	cattatcaga	cggagcgtgc	aggatggatg	agaaagaagt	gaatttttca	60
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ctcagctatg	agcagctgac	ccggatagcg	gaagaacgta	tccgtgaatg	cgagctggagc	120
agtcaggcgg	ctaaatacat	cagcgaatcg	agtatggcca	gcacccttct	gcaattctggt	180
tatgaactcg	cgattactgg	tgcgccaatg	aaaaattacg	aacaaaccaa	agcgctcatt	240
gacgtcgatc	atcagcgtct	cagaaaaactc	atctggccgg	agacggataa	gcaatga	297

<210> 5141

<211> 417

<212> DNA

<213> Enterobacter cloacae

<400> 5141

gttcccatga	aaaaaaccaa	atacagattt	gagagtgtat	acgatccctt	tgtatctaaa	60
gatgttttga	ctctgatcga	caacggactt	gtgtttcttg	ataaggcgcg	tgaagaattg	120
caggactcca	tgcccaaat	ttcgattgtc	agtttctgga	cagcggtcga	gatccttgctg	180
aagtgacctt	tggtacatga	gcactggagt	ctgtgtgtgt	ccggcaggaa	aatagagcga	240
gcaaggtacc	ttgcagggtg	ttccagtcg	tgacatacag	atgaaacatg	tcagcgatta	300
gctgatgttc	tggaaacccc	tcttctctaa	gaaacacatg	acgtattcaa	aaaagtcaaa	360
gaccatcgca	accgggtggt	tcatttttat	cattccgatt	ggcactgttg	caaatag	417

<210> 5142

<211> 582

<212> DNA

<213> Enterobacter cloacae

<400> 5142

aatgttaaggc	ctttgaataa	gacaaaaggc	tgccctcatg	ctaaactttgc	aacagtgcgc	60
gacatagatg	caaaaacaac	cccgagcgac	gcagcatatg	cttgagatga	cattgtagagc	120
gacgcagaaa	gtaatcaggc	ggtacccgca	ttgtccttgt	attcaggtaa	tcactggtct	180
acggcaaaag	aaatttttaa	ctcaaccaga	aatctggagt	ttgggataat	ctctgcggcg	240
atgggttttt	taaatgttag	agatcgggtg	ccctctttacg	agggcgacatt	tcatacaagta	300
ccattcaggc	atgatctctg	gtggaaggcc	atocaaaaat	cactaggaaa	cgataaccgt	360
tgccgaacta	taagccagtt	aatgcagtc	agtcogaatg	atgaatatgt	gattgcggct	420
tgccctgttt	atattgtctg	tgtccagaat	gacatcctga	agggcattga	gagtttgact	480
catctcttta	cgcaactaac	gatcgtgaca	tcaggggcat	atgctggccc	acttgagaaa	540
tacttaatta	agagttcttc	ggtaatgact	ccaacttatt	ga		582

<210> 5143

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5143

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ttaaaaaatg	atacgtgtga	aaccgtgtca	ttctgtgtga	agggctctgt	tttctgttga	120
agaaagatat	atctgaagcc	ggcagtcgcg	gtatgtccgc	tgccgcagac	actggcgagg	180
tgccggtat	acgcagcagc	gagtatctgc	taa			213

<210> 5144

<211> 1068

<212> DNA

<213> Enterobacter cloacae

<400> 5144

tatagaagc	ccacacagag	ggaagaggga	atgagccagc	aactgcgcga	cggtgtctgac	60
attgagaaaa	aggttgcgcg	cggagaggct	gttaaggaac	agccgcgtca	gctaactcagg	120
gacactatca	ccgggaaat	catctctaac	gagcgggtgc	ctgaaaacgt	cccgccctgc	180
ctgatagcga	tgacgtcgaa	tacgtctgtc	tacaacgatg	tagatgtgga	ggcctttcag	240
cggaagctcc	gtcagcaggt	atcacagata	ctggacgcga	tcaggatgga	gcgatttgaa	300
aatgcgcgca	tagcctatca	gcagtttata	gaccagtatg	atgcgtgttt	cgaaacgcgt	360
tcctgtggatg	tacttgggtg	gtgaaacgga	cgtgtgtatg	atctttatgc	gggtgtggaa	420
catcagggaa	cccgctttac	ggcagaatg	tgctgtggag	gtatgtcatga	tcgagcgtct	480

gaacgcagct	ttaatgccgt	caccgagcgt	catatcaatc	tgttgttcta	tatgctcacg	540
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ggttttctg	aagagcggct	cagaacgttg	cttaacgagt	acatctatgc	aaatcaactt	660
ggcgcgatg	tcttggaagg	gttacatgca	agcgagaccc	tttatggctg	gattttgctt	720
gaaaaaaatg	acctggatgc	tgcccggttg	atttataaga	atgattttaa	gctgaataac	780
gaaatgaagt	ttgcgcgagt	tcatgcagag	gtgatgagca	tctacaaaaa	gagatacaca	840
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agagcacaat	tcgcttttaa	gctgtgttat	taccttcacc	agacaggaca	gattaggaag	960
tatatcgatg	agctgacgct	gggtgctgat	aacaacgaca	cgagtgaagc	taccgtggat	1020
gtcgcgtccc	tcctgggtcc	ctctgcatcc	gggctgcgaa	ctcaatga		1068

<210> 5145

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5145

aataattgtc	tcgtcagaaa	aacgcctcaa	gggtccggat	attccggcat	aaccagcatg	60
gggtcatttg	cctgtatggc	ctggaactca	tcaatgcagc	tgatcctgaa	cacctcccgc	120
ggctgtctga	cggtagtcag	ctcctgtctg	attattttatt	cctttgtttg	tgacatctac	180
ttctga						186

<210> 5146

<211> 375

<212> DNA

<213> Enterobacter cloacae

<400> 5146

cacaccatga	aacgcacaa	tttttttgcc	ctttctacat	ttttactggc	aatgaactgcc	60
agctctgtat	acgcagtagc	cgaacacacc	ggtagtctctg	acttaccgggt	tcagaaaaacc	120
gctaattgcc	gtaactgtaa	tccagggttca	catogtttgcg	aggccctctt	tactattggc	180
cgggataata	ttgcacaaac	agacgggtca	gataaaaaact	actgtaatcc	gggatacat	240
cgttgccagg	cccccttttc	tactggccgg	gataaatattg	ccaagccaga	cgggaacagac	300
aaaaactact	gtaacctcaa	ctccagaaaa	tgtaatgcac	ctttcacacc	cggacatgat	360
aataattaatc	agtaa					375

<210> 5147

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5147

gctgcgcagg	gatgttctat	gaatacagaaa	ttacaggcat	cgttagtcaa	gggtgcctcag	60
attaccctta	cgttctggat	agtcacaaata	gcagtaacca	ctttgggtga	gacgcggtggg	120
gatgctgttt	caatgtccat	ggggataggc	tacgcgggca	gggtaatgac	tccaacttat	180
tga						183

<210> 5148

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5148

tcacctaaat	ttttcagtaa	gttacacata	acccccccca	ctattaagaa	ttactctcaa	60
cactattttg	atcggtcagt	atcaggaatg	atcggtgttg	ctgacacaa	aacgaaaaatc	120
ctgcattttt	gtaatcgacc	tcactctatca	ctacattatt	gcaacttatt	ggacacattt	180
aatcatgtgc	ttacaatgt	acttgcaagt	gagtttttat	ctcatacaaa	aaaatga	237

<210> 5149

<211> 837

<212> DNA

<213> Enterobacter cloacae

<400> 5149

tctgcgggtgg	aagcagactc	acccgatgaa	tacggcaaca	gtcatcccag	gcaggaaaca	60
atgcgaccac	aacaaaatc	gtcccgggt	ttcccgatga	ataaagtcc	tgaagtaca	120
ctctttttct	ggctgataaa	aatgatgtcc	actaccgtgg	gtgaaacacg	ggcagacttc	180
ctgaatatgg	atctcaactg	ggggctgact	aatacccttc	tgcttacccg	catattgttt	240
ggcgtggatc	tgacotttca	gttacgtgag	aatcgctata	ttccggctct	ttactggtaa	300
actgtactac	taatcagcgt	ttcgggaacg	ctgatcactg	acaacatgac	gcaccacttt	360
ggagtgcggc	tcgcgctgtc	aacatcggtg	tttgccggat	tgctggtttc	gacattcgga	420
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gcgtatatct	taaccggccc	tcctgggagc	tccttgggtg	atttggttac	tcaacccttt	720
accagcgggt	gctcgggggt	ggtcacacaa	ggaaccagca	ttttgttcct	gctgaccatc	780
accagtcctt	tcggtttact	cacctataaa	atgaaactcg	agaagaatcaa	cagataa	837

<210> 5150

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5150

aaaagaaacc	atcaatttgc	aggttggtaa	aaacgggggg	cgagtgtttt	cgtatttgc	60
ttcagtaaaa	accagactcc	ctgtatataa	aatcattcat	atcatttttt	aaaaaacgat	120
tttactatct	tttatctgaa	agcagggtac	tcctcttcac	tctatggcca	gcacacacct	180
gacgagccgg	cttaccggat	tgtaaatatc	tggcactga			219

<210> 5151

<211> 324

<212> DNA

<213> Enterobacter cloacae

<400> 5151

cgcgcaggga	cgcagcttga	ttcccggcgg	cagggttgca	tactggctgt	cgctgcgggt	60
gcctgcgccg	ctctctggcc	ggctgtttgc	cccgcctcag	ctgtagtgtg	gcattggccg	120
ggtaattgct	tcattccaca	tatccggcgg	aacgtaacct	ctcgtggcca	ggctatggcc	180
cgctctgggg	atgctgatcg	ccaggcgcgt	ggcgccaaac	tggaaatccg	cgctggcctg	240
tggaaatgcc	ctgagatcgg	cgactctccc	ttcccggcgg	tcgagctgag	ggaaaagcgc	300
cgttttacag	ccccacgctt	tttaa				324

<210> 5152

<211> 486

<212> DNA

<213> Enterobacter cloacae

<400> 5152

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ctctctccca	ctctcgcctc	cgctgcacag	aagttccccc	ctgaggtatc	cgctgccctt	120
cagtttaata	agtggatcat	ctcgcaaat	attatcggga	aagagccctc	gaaaaactat	180
gaagcgctga	ggccatattg	aacccgcgaa	actatcagca	aactcaaaag	catggataag	240
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gaagatgact	ggagacatcg	cagtcgcggg	gcgctggatt	acgatgccgc	ctgtatgcag	360
gtttatattc	cattcggcaa	aaagcgggat	cacacgtgta	ttgactgcac	ggtaaggaaa	420
gatggcgctg	ggaaagtgtg	atccgtggcc	agtatgaata	tttcagacaa	cctgatgatg	480
gaataa						486

<210> 5153

<211> 246

<212> DNA

<213> Enterobacter cloacae

<400> 5153

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ggctcatgct	taatgaaagt	agccaaaaag	ggcgggttag	cccaaaagtcc	ctgtctcgag	120
gggggtgaag	tgataatcgt	tatcactaac	atgggtgttat	gcctcggttg	cttatcagat	180
gaggtggacc	tatggaactg	cattcagaaa	ccttcaatcc	ggccgatttt	gcttgccgtg	240
gcttaa						246

<210> 5154

<211> 480

<212> DNA

<213> Enterobacter cloacae

<400> 5154

actatgttaa	atattctgat	tcaggaaaacg	gatctgtttt	ttcaggcttg	gctacagagc	60
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accaatgaaa	acgtcagcca	ggccgatatt	attgttcttt	cattatgtca	gggggaaacg	180
ctgacctgtt	ttccgggaatt	actggcccg	caaaaaggaa	ttgtgatagg	tctcgtcgac	240
gatgagctgc	gcttttcggc	gctgccttcc	tgctttcagg	acattatttt	tcttccctgc	300
cgggcatcgc	ttgatcgtat	tagcggcggt	ctgtttattg	cggtggtcac	gaocgaatta	360
ccgggttaca	cctggaataa	aaagaccgt	ttcgactgcc	agcataaagg	gttatcccg	420
caacaaattc	gtattctggt	caatttttac	cgagggtctg	cggtagtcca	gaccgcttag	480

<210> 5155

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5155

aaaagcatcg	cccggtggcg	tacgggtggcg	ttcacggcga	cagtggaact	gctgcgtacc	60
ggaaagggtt	attccgacca	gatagctatc	atgccagttg	ggatcaaaag	catgtccttc	120
gaaatgcgcg	ttaatgtct	caataaccgt	ttctgcacgc	tgacgcagct	caagccagtc	180
gtttgcata	cttccctctc	cttcccgcca	gattgttcac	atcttgctcg	a	231

<210> 5156

<211> 438

<212> DNA

<213> Enterobacter cloacae

<400> 5156

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cgtggttttg	gcgcgcacgc	taagggttaag	ggcatcgtga	ttggcgcagt	cctgttcctg	120
gtgcttgccc	tgctggtcat	gtccctgttg	aacgcgttgc	tcccgcccat	cctggggggt	180
aaagccattg	gctttctggca	ggcgcctggg	atccctgctgc	tgagccgcac	tcttttcggt	240
gggctggggt	tcctgcccgc	tatgttcggt	ggcaccgcgc	gtatgcacga	acaatggatg	300
aatatgacgc	ccgaacaacg	tgaggcccttc	attccagcgc	ctcgggcggg	atttggctgc	360
catggtcatt	ccgatgctga	cgatggcccg	gatgaaaaac	gagatgataa	cggtgcgaaa	420
gcgccggaag	cgcagtgga					438

<210> 5157

<211> 303

<212> DNA

<213> Enterobacter cloacae

<400> 5157

gactacccga	cgccatgac	agcacatgtt	tccaacgac	ctttgcatgg	cgtaacgctc	60
gaaatcgagg	ttaacgcgct	ggttgccgca	tatggctgga	atgaactggg	caaccgaatc	120
aaaaatacaat	gcttttcgaa	ggaccgcagt	gttaaatoga	gtctgaagtt	cctgcgcgcg	180
accocatggg	cgccggcgga	agttgaagcc	ctctacctcg	actcccttca	cgatgacggt	240
aacgggggagc	aggacgaacc	ggcgtttaat	ccttgagcgg	atagccggac	accaggagac	300

taa

303

<210> 5158

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5158

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gttaagccaa accctttttca atgcatacc tctgaaatga gtgttcgtcg tcatcacagc	120
cccgataata aacagtttgt taacattata ttaactcagc gtaccagttt ataatgttt	180
cagattgcag gttgcgaagc gcgtcactct tttttttcgt tttatccgta a	231

<210> 5159

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5159

gctattcaact tcttctgag cttgtctgag ttcagcatcc cggattacct tatggctggg	60
ttcaaatata aaactggaca gaaaatcctt aaccagggaag cgtatgctct gcattttctt	120
gccacgttcc ctacggttgc cgctgctgtc ttcagtgaac atagctacag tctgaccgta	180
aacgcgggga tgggcgcgta g	201

<210> 5160

<211> 615

<212> DNA

<213> Enterobacter cloacae

<400> 5160

aggatgatta ggcagggttt tatactcaca accgcaatgc ttttgagtgg atgcggatat	60
catttcgcaa accaggtaga tgcgtacgat ctaatgcctc gtccgtgttac aaataaaagg	120
tttcagatag tccctccgga cgaaggtatt cagtcacaga tgttttcagg ccgttttctt	180
gatggattag caaaaaaagg agtcattatt tccactcacc agccagatta tgtgtccagg	240
ttccgaatca gcagctcaca ggagaacatg cagtatacgc agcagcttct tactgggggtg	300
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gactatgact acaagccagt cgtatgggta ataggcactg agacgatgtc gcagatgcac	420
tatatgcgac agctggatgt cgaggtatata ccgtcagcga aaggagcaaa gcaggtttctg	480
aaagtggatg tgcaaaagcaa tgcacctgtg ccgtcagaca gcattgtgta ttcagcaaatg	540
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atcccttgga actga	615

<210> 5161

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5161

actacatgcg ccgagacaga gctgaatat taccctctccg tggacaatt caacaatact	60
gtacgcctca acttccttaa atcactttca gaccaccagc atgcctgtgc tacgtttgaa	120
cctaacgatt tgatgaaact ttgcaacagg caaggtcccc tctgggtggc aggttcacca	180
caagatccct cttga	195

<210> 5162

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 5162

aacactatca ataagttgga gtcattaccc agcgaggtaa atcactatta tgagcattgc	60
actgtccccc tgattgactg gtttttttaa caagcaaccg aggcgctgca tcatgtgtcta	120

tggttacccg	cctgtacgag	ctttctgaat	gggatcgaaa	catcactcag	gggttacgctg	180
aagttgaaat	caactgttaa	cgttcagcag	tcagttcctg	tactggttga	cttagatggt	240
acgtcagtaa	tgagtaaacg	tttaatgcga	aaggctaacg	aggaagggat	gccgatagaa	300
ttactgtcat	ttccagccga	gaagaatatg	ttggcaaaag	tagacgctgg	taaaaaacct	360
gaagcagata	tcgtcaggct	tagaaaatag	ctatgccatg	gcaacattct	ggagttcatt	420
atgagtgtaa	aagtcggttc	tcagatcccc	atacgaattt	ttactcctgg	taactgctgt	480
ggtttagcgc	ttttactttc	ggccttatcg	aagaaatgga	cggtaggcct	gcatacaatac	540
tgatcgaca	acaatctgac	gtcctgctga				570

<210> 5163

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 5163

actatgaaat	taaaaaatat	tctgctgtgt	gcgatgatgt	cagtcgcttt	tggtcctctt	60
gctaatacta	cacataaagt	tgaaaacgaa	cctatcccaa	acattattct	tgatggtaag	120
gttgatgata	tttgtaaaga	tgcaagcctc	cgaactgaac	ttaatcatga	taaaagcaag	180
gaactggtaa	ccaccacact	gaagcaggca	ttaccattaa	atacggtaac	ggataaagttg	240
gatgaagtgc	cagaagcctt	tgtaaaacgc	gacaaaggcg	cttcagaaaac	agcagaccat	300
tgctctgtta	atgtacgtaa	taaaactctg	gaaatgtatc	cctctgaaga	taagtag	357

<210> 5164

<211> 402

<212> DNA

<213> Enterobacter cloacae

<400> 5164

gaggtgtgta	tgaatatctac	tttactgagt	acgttaaatgc	tggttgctgt	agggtgtacag	60
cccgtttttg	ctgcacaagt	tcagtacgga	gcctgttgaa	cggaaaaacga	tcocggaaac	120
ggattttctga	tgctatcggt	acaaatgat	aaaggtgaac	atctaaagga	actctctggt	180
gttgcgacca	cagggtgacg	catctctaaa	aagatggaaa	gctacctggg	aaataaaaaag	240
ctcaaggtaa	acacgcgacg	tacccgcaag	ggggcgggta	atacaaccat	caggccctaca	300
gatgagctgc	cccacacgag	gcaactaaaa	gttatccggc	ccgaactggt	aaaaaatccc	360
gattcgcagc	tcgtggtagc	tttcaatgag	cgcttggcct	ga		402

<210> 5165

<211> 444

<212> DNA

<213> Enterobacter cloacae

<400> 5165

gagcgtccag	aaggaaaaaa	ga-gtcgata	ctcagtagct	tcgtcatcag	agcaacggggg	60
atacctgaca	aaaagtattct	ccgggatccc	gtaataaaac	gttgttataa	acgtctgagt	120
cgtaggtgac	ctgctctaat	gacgggggtg	cttcgtgca	ttctgggttc	agggtatgtc	180
atgtatggac	tggaacagcc	tgatagcact	gtattactca	gtctgtgctg	gttgtatgtt	240
agtcaggca	ttttactgat	gcagttccag	tatatgtatt	catagcggaag	catagcgctac	300
aagttctacc	tggaagtgtc	ta-gaatgca	gctgccaagta	ctcaacataa	agaacagtta	360
cagtatctgt	tcattaataa	gcccaattcc	atcacgatgg	gcgatcttta	ccgactttat	420
gattttaatg	ggggaggggc	atag				444

<210> 5166

<211> 1122

<212> DNA

<213> Enterobacter cloacae

<400> 5166

aaacgacat	gctatacagc	ctctaaccct	ttttttgtat	gccatcataa	cgcacacaga	60
aaaggagaaa	ggctctatgc	tcgtattgca	ttagcgcctt	caaagatggt	tttgcttatg	120
tcctttgtaa	ttactggtgc	ccacgcagc	cctgagcaac	ccctaataaa	agatacgcct	180
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agcgaagctg	aagaagaaga	ggttttgcca	ccaaccgggt	ctgctagctc	gccttcaaaa	300
gaggaaatgg	tagattttaa	ttcaaaatgg	ctaaaaagaga	atatgcctcg	actgttaaag	360
caggcaatgg	ataacccctac	cgcagaaaat	ctatcacggt	attacacggc	gcaagggtta	420
atgctggata	tcagtagcgg	tttttctgac	aaatcaaaag	attattttct	taaaaacccg	480
atgatgtctg	aaaaacgcag	gcaaccagtg	gaaaaggtgg	cactggatgc	tcaccgcact	540
gtgtgtgaaa	aaaatcagca	aacggtaatg	aaagatatct	ttactaaagt	aggtttattt	600
ttcttttttc	agagtaactg	ccagtttttg	acgaagaaga	gcgaataact	tcaatttatg	660
cagaactatt	atcoggtaga	tattcttcca	atcagtagtg	atggaaagcc	attgcataat	720
ggcctttttc	aggattttta	catccccaac	gcacaaatta	ttgatcaatt	taaaaattga	780
gaggtagccta	caattttcct	ggtttcctaa	gatgggacat	cagctcagcg	cttagtgtaa	840
ggcatgatct	ccgctgatga	attaaagaac	actattatac	ttgcgcgcaa	gggcatgaat	900
ctgatcgatg	acgcttcggt	ccagtcgaact	ctagatatta	aaaggcaata	taccatcggc	960
gatgatggcg	ttattaccgt	taataaatcc	gaaatggaat	cagacccatt	cctacttcaa	1020
aaaataatgg	accaaaaact	cgaaggctat	gacatgccta	cggcgcgatc	ggtaatttat	1080
ctcaatgctg	gcggcgattt	tggaggcact	tatgcgcagt	aa		1122

<210> 5167

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5167

acaaacgcag	cgaaaatcag	gcaaacgcagc	aggcaaaacca	ggtgtgcaga	tttcatcgaa	60
acctcctttg	aaagtccact	gcttccccctg	aaatatatcg	ttacattcat	caacgcgatt	120
caagccaaaa	gatgaatttt	acgcattctg	cgtgcgggat	ccgatcgcca	gtgcaattgcc	180
atagcttact	aa					192

<210> 5168

<211> 315

<212> DNA

<213> Enterobacter cloacae

<400> 5168

ctttcaaaag	aggtttctgat	gaaatctgca	cacctgtgtt	gcctgtctgt	ttgcctgatt	60
ttcgctgcgt	ttgttcacgc	gcaggagaag	agcgctccgg	agaaaagagg	ccagataaaa	120
cagcaggctc	tgaagatagt	aaagaaaacc	tgtaccocgc	agaaaagaca	gagcgataag	180
gcctggcagg	cgatgatatt	gtcgtctgag	gcgaatcagc	tgctgatcaa	aaacgccatc	240
accgcgctga	agcgtgacaa	ccaggacgcc	tactgggatg	cagtcagtea	gggtggattgt	300
atggaagatt	actga					315

<210> 5169

<211> 468

<212> DNA

<213> Enterobacter cloacae

<400> 5169

ttttctcttt	ctaccgtatt	cgcgtggcgc	agctgggtgcg	ggaatacagt	tcgaaacccg	60
gagggcaocg	ggatgtatga	cgttcaocgt	attttccgcg	acggggcccg	cgagctggcg	120
cgttttggac	agctgtttgg	gcgcaacggc	gtggggcttg	aggggtggcg	cgtattccgt	180
accgatgcc	atttctcgtt	ggaggacggg	gaaaaagccc	ccgctgtgct	gctcgacgcc	240
gggtttacgc	tgcaggcgct	gcgaaagcgg	gtgatcagaa	agcttaaaga	ggagcgtcct	300
ggcgagctgg	gcgagatagc	ggcgccgctg	gcggcaacgc	gcgtgtctat	cctgactcag	360
tacagtgacc	atgcgaatca	ccttatctcg	ctgacgggat	atgataagct	ggccgctgag	420
atcaccacac	cctgggcgac	gaatgtttaa	gacgagctta	cctctcta		468

<210> 5170

<211> 1089

<212> DNA

<213> Enterobacter cloacae

<400> 5170

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gcctgtctca ctatgtctat tagcaccctg gcacgggtat ttaccocgca cggcaacatc 60
gtctatacag caaacgaact tcgccagacc ctgcgtatcg tctttgcgg gatgattgag 120
ctcagttatt cgagttttcta caacaccagc tacggcggtg tttttgtggt ctacccgatc 180
atgctctctc cgtcggtacc ggtgtttaat cggcacgtgg cgaagcagtt tatcttcage 240
gcctcgctga actgcgctga aatggtgttg attatcggt atctgtcgca gtggccggtc 300
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ccgcgcgtga ttgagaaaga cgaatcccg cgtgcgccag agtcgctgct atccggcacc 600
gtggcgagcg tgattttcgt cgtgttccag attagcgaat taagtgtatc gctttcgggc 660
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accacatcat gcattatgtt cgggcagaaac atgcaccggc acagcgacct ggttttcagc 960
gatctatacc gcataccctc cgttaccttc gcgctggtgg tcacgctgac gatggtcttt 1020
ctggtgcacc tgatcctgaa tcgcttcgag gcgacgcgct acgttatcgc gccgccaaaa 1080
gcggattaa 1089

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<210> 5171
<211> 249
<212> DNA
<213> Enterobacter cloacae

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<400> 5171
ttcatcaagg gtcacaaca cggaaaggcg gggcgtgga ttatcaatta caaggtcgat 60
cattcatgct catggcgcg agctgtcagc agaacagcag gggcggaata ttgtgttcag 120
tgtgcgcctg ttaatggatt aatcccgctt ttcaggagaa acctggaagg tgacaaaatt 180
gtcatcatc agtcacgcga taaacagagg cggtttttta taatcataca taaatcagga 240
gcagagtga 249

```

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<210> 5172
<211> 269
<212> DNA
<213> Enterobacter cloacae

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<400> 5172
cggtccgggt ttatttaccc acagcatego ctaattcaag aggttacata tgatagtttc 60
agaagcaatt ttttattctt ctattatttc ctgggttctt tattgcgggt ttatcccgcc 120
ccattacta aaaaggtagg gatgctgtgt gtccactca cgtttacctt cggatgttac 180
atttatgcaa ttcatttga tgattccgca cagcaaaacca atttactagt cgtcaccaca 240
ggggacaaaa gcccccgcgc taagcgaat 269

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<210> 5173
<211> 186
<212> DNA
<213> Enterobacter cloacae

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<400> 5173
attgaagcgg tgctcgttct cctgcgaata ccagttcgcc cggtaagtac ggctggaata 60
agtattccat tcgctcgtga aaagacattt accaccgatg gcatcaaatc cgtttccgag 120
tccacctate cctgcaaaaa gatcgataaa gctaaaagtc ctgtcctcat aatcagcagg 180
tcgtga 186

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<210> 5174
<211> 1011
<212> DNA
<213> Enterobacter cloacae

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<400> 5174

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atccgcagca	caaaaggagg	caaaagggtt	atgggcagac	accaaccctg	tcccaccatg	60
gcagtgagga	caggcaaacg	aaaagcccag	aaagtgtaaa	gggaagaaat	aaccatgatg	120
aaagagcctc	atccgttact	tcagttggta	ctaaacgatt	cgggtcgtct	aaccatgcct	180
gtttattata	gagatcaaca	gtattgcccg	acttgcccta	caaaggtgtt	gaagagtgag	240
gatggaaagt	tggcgcaact	cggggaaata	aatcaaaata	catgtagacc	ttctatttca	300
gtagtgtgga	caaaagcaat	tattgaaatg	ttatgtgacg	gggaaaaaat	atttgtaaat	360
ccaatacgat	accgaggcgc	gggtcgtggca	ccctcagtaa	ttttttctcc	cgacactcac	420
actttcaaac	cgtttataaa	tacagactat	cagcctgtgg	gagcaaaactg	gaaaagttaa	480
aagggtatata	aactcgggtc	gttttatctc	aaagatcgag	ccaactctat	caataaagag	540
gaatttctgt	tcattgcccgt	tatagaccct	aaggcaatgc	agaaaagaatt	tatttcggcc	600
tgggtgtgag	ttgatcgaaa	aaatccattg	gaaacgctga	agcagattctt	acgatctaaa	660
aacaactctt	ctttatgggt	aaaatggcct	ggcaaaatgt	agcatgcgca	aaaaggaaat	720
tgcacagaaa	attactcgtt	cgattatcaa	tctgataatc	aggaagttaa	ctgtacggct	780
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ctaagcgcta	agctcaatga	atatcaactc	gttcggtctt	tagggactat	tatgctctct	900
gataatcgta	ggaatcagat	tcocatcaac	catccttatt	ttgaagtcat	ctcaaaagca	960
tgtataaatg	gagtgcgtag	ctttgttcgt	caaaaccctg	gggtagtcgt	a	1011

<210> 5175

<211> 360

<212> DNA

<213> Enterobacter cloacae

<400> 5175

ctggttagcc	cagctcgata	cggcatactg	tttatgtttg	gccgactgca	ataccgccct	60
ggccatcatg	ataagcaagg	tctctaaaata	ggtatcacct	cgcttgctta	tcccagcag	120
gactttgtta	ccccactggt	agtgctgacg	tggaaaccaat	cgcagccagg	cgcagcgtg	180
tccggcattc	tggaaattgt	tggctttacc	aatggctcgca	atcagcgcgc	tggcggtaac	240
agggcgaaata	ccagggatct	tgcgatacgc	ctggcagaga	cgattttgcc	gatagcactg	300
ctcaatctgc	ttgtcgagtg	tagcgatgac	atcgaaacagg	tacgccatgt	gggtcgtgag	360

<210> 5176

<211> 1329

<212> DNA

<213> Enterobacter cloacae

<400> 5176

gagactacta	tgagccaaaa	attcgcagtg	atgattgctt	acgacgacga	tccaaacgtc	60
aaaaggtact	caactgactt	tcaaacgcag	gatgagtttg	ctaaaggggtg	gcagtcggct	120
cttaaaaagg	caacaccacac	ctcaggtcaa	aaatcagta	tcacctgcgg	atgctgtgga	180
aaagggaaaa	agcgacttta	tgttcgtgct	ttaccgaaac	gtgatcctct	tattctcgtc	240
aaagccgcta	acacgggcgt	tgagcatgat	ccttcctgtg	ttattctctc	ccttgatgcc	300
cggcatacgc	gcttgaaaag	atatgcgagt	gggtgtggtc	ggattacaac	cgaagtgtat	360
atggctgtaa	ggctcgggtat	cggatgaca	gagaaagatc	ctcctgaaaa	atcagaagtgt	420
ctcccccctg	cccatgttca	cgagccagaa	ggaggtcagg	ctcctatgac	cctcctgggc	480
ttgcttagtc	ttttgtggac	agagtctggt	ctgaattgtc	ggtaaccgaa	aatggcaggg	540
aaacgtcaac	attcactggt	ctgcttgaaa	cgcgttaaaa	aattcgtacc	600	
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gtaaagaaac	gattttcatc	ggagtacgca	gcattgaaat	cgggggcgaa	aatagtgtgc	900
tttgcgttga	cgtaaccagc	tgcgtaacc	ggcagagggc	cttctgttaa	agctcatcaa	960
attgtcgtga	tgcacgttag	cgagaaactg	atacctctgt	actcctccta	tggaggcggtt	1020
gttgacagaa	agctggatgc	agagcaaccg	cagtaactgt	agcccatgtg	ttatgatgtg	1080
agttatgatg	aggtgttccc	tgaactctac	ctgctcgaca	caaaaagcga	taagccgttc	1140
ccgatggaa	tatttggat	ggccactcct	gcttatctgt	cccgaaagca	actcaaaaaa	1200
gattattaca	accgttgata	tggccttat	ggatggtg	actgggagtc	gaccacagca	1260
tctgaaacta	tgggtcgtcc	tcattttcca	gaatcacgta	aacctctttc	aactgacaca	1320
cctgcttaa						1329

<210> 5177
 <211> 216
 <212> DNA
 <213> Enterobacter cloacae

<400> 5177
 aatggagaaa aaatgtcata catgctttca ctaagcgaac agacaaaact gaacgctttc 60
 ctgtcaggga tcccttgatga ttacaagact ggggttatca ctacagataca agctgtgtgt 120
 aaaatcggta acgtgttttc tgcaactggaa agtggagact caaaaaagggt agtgcatttg 180
 ttgactgaag gacgaaaaact cctgcggagc ggctga 216

<210> 5178
 <211> 249
 <212> DNA
 <213> Enterobacter cloacae

<400> 5178
 gcatccaacg cagtttatgt gtcaccgtca acaactctaa ccacctttgc ctcaaaaagtt 60
 gttgagttcc cccaggacgc cactgggaat acaacaatca tgatgggcaa aagtaacttt 120
 gtaaaaaaaa acatcatttc acctgaattt gttgagtaca gacatgtatc cacaagccta 180
 ttacagga gtaatttaac aagtatttat ttcattggcg ggcttaaaac caatcttttt 240
 gcaacttaa 249

<210> 5179
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5179
 tgtcagaggt caaccatgac gtatttcgaa tcagctgaag gtgagacggt atctaaagaa 60
 cgagcattac aagaactgtc caggcattgc gttcccgaaa cagatttcga gaattctttt 120
 agcgacatg gcgtaaaaga acagtatgac gtcaggaag tgttgctttg gttgggatat 180
 taa 183

<210> 5180
 <211> 369
 <212> DNA
 <213> Enterobacter cloacae

<400> 5180
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 gatgtgccac ctgtgacaca gattcagatg cgaactacgg tttccagaaa gggtcgctat 120
 gtaaaacagg caaatcgaga ggggtctgaa ttatctgagt ggaatgtcgc gcactctcac 180
 gctgtctgtg ataccgcaga tgagattcat aaaggcaaac gctcaactcc gggtgcgcct 240
 gggaagattc cccctgaggt ataccaggtg atatacgatc agtgcggcgg gttcgtggag 300
 tgtgtgctga atgccacggt aatctgggaa gcctgcccgt atgccattct taacggagac 360
 aaagggtaa 369

<210> 5181
 <211> 330
 <212> DNA
 <213> Enterobacter cloacae

<400> 5181
 ggaaatcgaa tgtgtgattt ttgcaggcgt gacgaaaatt actttcatat ggcagaatgc 60
 gtgtatgacc aactggttaa agagtatccc gtaattgtgc tgcgggattc aaccggatc 120
 ggggcctgct acctctgtgc agaactgctg tcgcgggagg ggaatggtcct ggcatgacg 180
 agcgttttcc ctgcgaaggg atggcgctgc cgtatttggt acaatgaaac cattgacgaa 240
 gagatagaac cgcagcgtgg agactgtatt gagctgtcct ccaggcgcca cgcctctgctg 300
 tccctcatgt cgttccagga aaaggtttag 330

<210> 5182
 <211> 228
 <212> DNA
 <213> Enterobacter cloacae

<400> 5182		
gcaagatag	cagataacct	cctgtgtccg tctttcatcc gcaactcgca aagcgagttt 60
cgtgtgagcc	agggtgaatat	caacagcggtt aaacaaacta ttaatatgca caaaacaatg 120
ggttggtttg	gcatttttcat	ggccttcttc tctgttcaac gcaaacgaga agtgtcacca 180
toggtgagaa	acagagatgt	catgcttttg ttcagagaat ggttttga 228

<210> 5183
 <211> 225
 <212> DNA
 <213> Enterobacter cloacae

<400> 5183		
ttcacctctg	atatggccac	ttgcgaaatg ggaatgttaa ctgttattac tatgtgttta 60
cttctgtgtc	ttgttacgca	gcccttataa cacattactt tcaaatatga tttctgtctg 120
ggtttaaata	ttgtcttttc	tatagtcggg caactatttt ttacaccac tcattgaatta 180
aataagaatc	ataaattaaa	tgagaggttt aattctcttg cttaa 225

<210> 5184
 <211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 5184			
atctgcgcc	ttgtaagctt	ctgggcggaa ctgcttaaac ctgacatacc ttcccgccct 60	
tataataaac	aatccgccag	cagctcgact ggccgacaat gtttgactgg aaacagcaag 120	
gacatactat	tttgtgacaa	gtttgatatt ggtttcacte attcgaagtc gaaacctctg 180	
aaaacctctg	tctaccgcta	a	201

<210> 5185
 <211> 624
 <212> DNA
 <213> Enterobacter cloacae

<400> 5185			
atttgtttaa	taaggctgag	tatgatgaat aaagaacaac taatcgacaa actggaacgc 60	
gtgtgatgtg	gtcagtaact	ctacgaaatg caggagcttg cgtattccggc cctctgtctg 120	
attaaaggca	ccccggagca	ctgcgctaag ttccctgtta cgcgtccgct gccctgacac 180	
ttagtggagc	tatggggacga	gatccggcaa taccttgcca caggcaaaag cattgaaact 240	
cgcagtttgc	gggttttgcg	tctgtctcat ggacactgct acgattcaaa tcattgtgctg 300	
tactggcgca	atgctggcgc	acttccagca gcttgcgata cggcaactggc tgggtgggtct 360	
cgcaactctg	tcacctgtct	agcctgtgga gtggacggtc tggatgaacc acctgaaacc 420	
agttgccact	gctgcacaga	ggggggccac tggattgaga gcaggtctctt cactccgggg 480	
caggcgagcc	ctgaagaatt	tagacccgtg gcggtgtgta aagagtgtgc aggcctcaacg 540	
ccggtatgac	ggctcatctg	gagcgtgatt gaacagctca acggcgaaact ggcggaaggc 600	
gataaactat	ttaagcaacg	ctga	624

<210> 5186
 <211> 297
 <212> DNA
 <213> Enterobacter cloacae

<400> 5186		
tctgggaagc	ctgcctgtat	gccattctta acggagacaa agggtaaacg gcaggtatcg 60
cctgtcatct	ttacccttgt	gaggaaaaac ctgatgaacc atgagagccg aactgtatac 120
ctgaacacag	ccattgagcg	cctgttgaaa gctgagggcg ccttgaacga cctgtgcatta 180
gcctatgtac	tcaaacaccg	tgaaaaggca agcgcattgc atccccgaac cgtgtacgctt 240

tccacagctt cccaggtaag aaaacttcgc cgtgttctag aaaaaacaa gttatga 297

<210> 5187

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 5187

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ctgagtcagc cgagaagaat ttccccactt attgcgacct tccttaagag tagtgacgat    60
ttttcccggt aactgtcatt tctttttcac cgggtctataa agattagaaa ttcagggttc    120
cgatatttgg gtgcgggcct gctgataatg attttttggtc ttgtctgtgt gttgtctgca    180
ttacacctct caccctcagt tctggacttt gatattgatg tgccttgttc attcttcaat    240
tcacttgaag gtgaagataa gttagtgttt tcggattttg gogatgcatt tggagggttc    300
ctaactacat attctaagtt gctattaggg attatggggc tattagtagt tcttccaact    360
gcctttaaaa ttttaaaagg ggaggaaaata ggtgagatat tcccgatgct tctaattgct    420
ggcgcttttc ttatcggtct gtcagttttt acatctgctt taggttcgga agagactgat    480
gccacttcag cttcgactgt aaaggttatc aagaatatg taaaacatga aaaatacgat    540
aaactgtcgc catatttaaa tgatagtaat tggccctcag gcgaagaggt atctgtaaac    600
tatttaaggc cgcaactaca tataaaactc ggcaagccag atgtgaagtt aacacagaat    660
gttggttagg cgtatatgct tgggtgtatta cagtcaaaata ttcccgtaga agttcgttat    720
gcattggaaa agacagcttt agataaatcc gctcaccac ttgcgatttc ttatgagcaa    780
aaaagctatg ctaaatcaca taccttttca aaagcgtcgg ttaattgtct taaagttagt    840
agtcocgtcg cattcgttgg cgttttgttc gctcttcttg gtataaaaat caggcggcga    900
gtcagattct tagaatcaaa ttga                                     924
```

<210> 5188

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5188

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ggatacatga tgtgtaactt tactctctgtt caaattattg ctgattatat actgagggtt    60
cttaaaaaata atactgatgc caagctttat gaggcaatgc agcgtcttga aaagaaaaat    120
ggtcagtttg tcgctgatgg gttgatgaa catcaattac gctcttcaat aagcaaaagtc    180
tgtcgatctc gttccaggcg ggctcttaaa gaggagtgtg aacaactcat tccataa    237
```

<210> 5189

<211> 306

<212> DNA

<213> Enterobacter cloacae

<400> 5189

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ggcggggaag gtatgtcagg tttaagcagt tccgcccaga agcttacaag ggccgcagatt    60
tacgtgttaa gacggatggc atccggcagc atctatgata tctctggcaa tttcagacgg    120
gccagagaaac ggctacgatt tatggggaat cctgatgatg tgacgtgcag gagctctccg    180
gtctctgttc ggctgggcct cgtggagtta tgccagccag taaggcatct ggagccaggt    240
ttatactatc ggctcaagtt gagctctcca gggcatgaag ctcttaaggc gaacgcacac    300
ctctaa                                     306
```

<210> 5190

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5190

```
gaaacagaac ccgacacatc gctgctctct gggaaagccg gtcagcagat ggagcgccag    60
gaactaaatc cgctggtttt aataatgatt gaggagaaca agatgaaaga taacaagaca    120
cgctcgttag actcgtatg tcatgctgat ttcattggagt ccgtcttcag caacctcagg    180
gctttctgtg atcggaatg ccagcggtca actgcgggtt atcccccaac tgtcaaacca    240
gaacagcaaa gcactgacgg ccagctgttc gcggcataa                                     279
```

<210> 5191
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5191
 atcattacot gccagttcgt tcaaatcttc gtttccctaa gcccgggcca aaagcccggc 60
 tcaatccaaa aactgaacgt accggtttac ctctatatct cctcaatccc ctgcgactta 120
 caagagacc gccacgggtt agccattcct gtcccgccac tctctcatca ctggcccaga 180
 caaccggaaa agtaa 195

<210> 5192
 <211> 369
 <212> DNA
 <213> Enterobacter cloacae

<400> 5192
 tgggctacgc attcagctctc cacctctctc actataaagg ttcttttctat gtccaatagc 60
 ttcgataaagc cgcaaacgct cccggtacat aattctgatg ccgaaccctt ttttccgaaa 120
 aaccttggto catttatcga gcaggtatcc ggaagggatc tggcaatgct cacagaatca 180
 gagaaggaaa aacttgcgca cctgatcaga actggggcta aatatggagt ttctgtcgct 240
 atcgttccgt atacagatc tgcgtgagctt catgaattac tgtctaagtc cgattccatt 300
 gaaagcgagt ttcccatcta tgaacgcac cagacgaaga ttgcgttcac gcggtgtcag 360
 gaagcataa 369

<210> 5193
 <211> 354
 <212> DNA
 <213> Enterobacter cloacae

<400> 5193
 gccactttgt tatatttgtt tcatgttaac agaggaggcg atatgcaaat tgaaaagggtg 60
 atgctattac ttgaagtgtt ttcaagctgg ctggaagata acatcaatat ggattctgaa 120
 attatctttg ataattgacga agataatacc aactcagaaa ttctgtatcc tgcgttagaa 180
 aaggctaatg ccgtttttgc caaaatggca tctttatctt cagatttctgt tcatgcaatt 240
 cgacagcgt tgcagcttgc cgtagaaggc aaagctgaat tgtccctcaa ggatgtggga 300
 gagcttctgc tggcaacaaa gtatctgatg ttgtccactg aagagggaga gtaa 354

<210> 5194
 <211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 5194
 aaagggtgact tgatgaaacc atttggaact gccggaaaaa cccggccoga accttgggc 60
 tgctgtcgtg ataccggtga ggaactgcc tgcgtcagcg caaacagat ctatcgccgc 120
 aggcagcgca aggcagacgc ccagcgtcag cgcagcacc a ttgtgatggc cgtttctgaa 180
 tttcgtgta 189

<210> 5195
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5195
 aaaaaccgct atgcagaaaa aagagtaata ccccttttta gcccccacaa tttcacgcgc 60
 catctgcctt taaccttgcc tgttattaac ggaatccttt ctgactgggc ggatccacgc 120
 cataacctga actgttggct aaccgtctta cagccaaatt cctctcttta tctggcagga 180
 gtgcgtccgt ga 192

<210> 5196

<211> 522
 <212> DNA
 <213> Enterobacter cloacae

<400> 5196
 tgtttgtccac tgaagaggga gagtaagcct gtgaccactc tcgtatttga aatggcagat 60
 atcaataaac tgatcgaaga aattcgcacc gcaaaaacgt ttctcggtcac ccagatcag 120
 atctatgacc cggcatgcta tccgggggga gccctcctta acgctgaggg acagactgaa 180
 gaagaggcgc gtaaaagctgg tagggtttct ttccctcat cctcaaaaat tggcagcaca 240
 catctggctg caaaagtgtc tctcgcgcac agtcatgggt tatacctgat cactaatgct 300
 gagcttgagg gccctccgc atcccgcat actgtggctt acgcccaggg gatgaatcca 360
 aaactggatg aggaactggga ttacgcttgt gatgcgcctt tgggtggggt tgattgttagc 420
 tataccattc ccgttgagtg gctggagtta gcggtagagc agggttttca ggagtttcga 480
 cttcgaaatga gtgaaaccaa tatcaaacct gtcagcaaat ag 522

<210> 5197
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 5197
 gaattctccc tgaatggaag gcaaccgatg aaaatgtttt ttacccttta tgttctgtatc 60
 gttttctatt ttgcgcatt gatgttttatt gttttacagtt tcagtgtatt ttccagggc 120
 gtccctgaca gcaccttctt cagtgcggtc atcacgctac ttgttatcgg aaccattgtt 180
 gcccgccatc tggatcgcaa aaaatctctc aaatataact cacagattta a 231

<210> 5198
 <211> 243
 <212> DNA
 <213> Enterobacter cloacae

<400> 5198
 ttttaataagg accggttcat gcataaccac gaaattcaga coattgtctat atttagtgcc 60
 cagtataaaa acatcgaaga tgctgaaaaat gcaggtgctt tatattcagt agatattgaa 120
 tatccgatga cactaaatga tttatcgcgg ctttgcgact ctattgcga agcagtaggt 180
 gtgcctggcg gcgtcaaaata ccagttcgtg tccagccgg aagcgcgatga aaccagcttc 240
 tga 243

<210> 5199
 <211> 237
 <212> DNA
 <213> Enterobacter cloacae

<400> 5199
 ccagtaacca aactgcctaa aagcaggtgc aaagccatga acaaaacaaa gtcttctatg 60
 tcacgtattg tgcagctgta cgcagggagc cgatcggaa actgcgagca ggcgtgataac 120
 gaagagagcg tttttacggt ggtgttgaa aagccttcgc agatcgatga cactcgtaaa 180
 atcgtagaca caaccgcga agtaactggc aaagctttgc cagtactcct cttttaa 237

<210> 5200
 <211> 327
 <212> DNA
 <213> Enterobacter cloacae

<400> 5200
 tctggagagt caatcatgat cacatctcta atgaatttcc gcgatttaac cggagaggca 60
 gtcacccagg cgcggcaatg cgttattaat gctgagatcg aagcggcccg ggaagaggta 120
 attcatgctc gttcgttatt caaagcgggt atacataatg ttgtaaacgg tagttctggc 180
 attaaggctc cgcgcagaca ttttctgggt ataaaaagctt tacagactga cactcgttat 240
 ctggacgagg ttatcactga taacctttgc atgtttttctc ctgagggtta tctgtatctg 300
 tttatgcaac aacgttattt cctataa 327

<210> 5201
 <211> 291
 <212> DNA
 <213> Enterobacter cloacae

<400> 5201
 ggatataata tgaatatcag ccagctggaa tccgggatgc aggtttggtc tgtaaacccgt 60
 accaaaatgg gaaataccac catttcaacg gtcattgtcc acccogttgt cattattgaa 120
 attcatgata accatgtgat tgctcgctgg aacggcaatg caccacgtcg gtttggagaa 180
 acggctatca ggggctggaa gaaggagaa ccactgcttg tccgtgaagc tttcggaat 240
 gttcgtcttg ccaccggggc tgaaaaaacc gctatgcagg aaaaagagta a 291

<210> 5202
 <211> 618
 <212> DNA
 <213> Enterobacter cloacae

<400> 5202
 caggagtggg gtagtactga attaaaaaa agcccgctcg gtttttcogg agctgatgtc 60
 agtaaaagac aggtgtccat aagggcactt gtgaaaagag tagtgaccaa ctatcgcgac 120
 cggacagcac ctgatcgggt tcaaaaaggct tcggtagcgt ttaatggggg attaatcctg 180
 accctgatgc tggccttgac gctattgggc taccttggg cggaaatgct caggggggtat 240
 gttcgcgata gttcaccccta tggcccggt ctaagttatt cgcaattttc gatgcttatg 300
 gtctgttgagc tgtgtctatg ctttcttgca tggtttttgg ttgtcacagg ggactatccc 360
 cggcgttgga tatttcaggat agtcccgatg gagcagtaact ggttctttga cgaagtggat 420
 gacgacgac ttgcccggt ttcctgtaac ccttacatca agcgtgggt acttgatgaa 480
 atgtccggta tccatcgact gacctaacg aggtgcgat atcgactgga gcgcactctg 540
 aatattgcac ccatctcga atacagccgt attcaggcac ataagatttc cctaatacaa 600
 ggaagcagtg cctcctga 618

<210> 5203
 <211> 351
 <212> DNA
 <213> Enterobacter cloacae

<400> 5203
 ttgcgcaaac tacggggcat ttctttaatg ggggagcttt acatcactat ttctgtcatt 60
 ttcaaatccg ccggatcacg caataattgc accgaacagc ggtttgaact gcaatgcate 120
 cgtagggtat gcgacaataa taaggctctt ccggtactct taataatgga agagtttaaa 180
 acccataact ctgggatgag cgaagcagg tacattatgc cagcgataaa gggccgctat 240
 aacttgtttt ttctagaac accggcgaagt ttcttacct gggaagctgt ggaagcgta 300
 ccggttcggg tagggcatgc gcttgcttt tcaactggtt tgagtacata g 351

<210> 5204
 <211> 537
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (526)

<400> 5204
 aaaaaatgtc gaacctggta ttgttgtgt gtagcgcagt taacaaacca accaaaagag 60
 agaacaaaaa tgtccgcaat cgaactgaa gtaaaaaaca acagcaacga aataagcctt 120
 cgtggttacc tggaaacgca ttgtaacggt gcccgtaaa gtacacggcct tatcattgac 180
 ccttcgggtt ttgtacaaca ggaaggcttt aacaccocga cggcgggtat gggcgagctc 240
 tactattcaa tgcctacgtg tgggaacac ctgaacagcc tggccgatgc ctacatggaa 300
 gaccogttca cgtgacgac tatcgttgtt cagatgggta atggcgatcc tgtactgcgt 360
 cagggggctt gccgtatccg ttccatcgct attgcaaac gccagctgga agcagaagg 420

cggtgaacgca ttactcgtat tcgctgcgaa caatttcgcg gtacgcgttc aaaagcagaa 480
ctcttcaccc tgaccgcgaa ctccaacctg gcgctgtctg tcgtanctga agcgctt 537

<210> 5205

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5205

gccccggcgt ataaaaatga agatgcgatt aacgtcccga ttacotatta cgattctaac 60
ggctgtctaa ttgtttggtca caatctgggt ggaaaaatcc accotcaatt atttgataag 120
ctggttcgtc gttcaaacga tggttcaacc cgttgccagc aggcaaaaat caccagttac 180
ttaagagggc ttttaaatgg ctaa 204

<210> 5206

<211> 276

<212> DNA

<213> Enterobacter cloacae

<400> 5206

agaggttaacc gaataatgag tattccaatg aaaggcgctg caaagcgctg ctggtataat 60
agctgcactg attcagtcga atacaaatcc ttcaacggte aaacagaaat tagtgaatca 120
gcctataagc tactttgcttc aggtataaag cctaaaccaa ctgtgaagcc agctaaagcg 180
gtcacacagt ataaagtgaa gcctaagcca acgattgaac agcaaaagaga tgcagccttg 240
aaagaggcta ttaaacagat ggtaagcggg ggctga 276

<210> 5207

<211> 298

<212> DNA

<213> Enterobacter cloacae

<400> 5207

gttggggggc gtcocggtag ggcaggagat tgttgttggc ggggttgca cacaaccggt 60
aaocccaccg ttaaccaaaa acctgggttaa ttacgtttga aaacccgaat ttgctgatcg 120
ttgggggtcg ccaaccgggt ttatttcggg ggcgagtgga tcaaaagagg cgcatttggtc 180
gtggacgtgg gtattaacgc cctgaaaaac ggcaaaagtg ttggcgacgt ggtgtatgaa 240
gatcgccgag cgcgcgcac cctatattact ccggtcccg ggcgcgttgg cccgatga 298

<210> 5208

<211> 921

<212> DNA

<213> Enterobacter cloacae

<400> 5208

cctatagcaa gtgttaaaact ttttgcctgt ttattgtcac ctctatcaact acaggaagtc 60
agcaacatga cacatatctt ttatgagttc tctctccctga agcctggtgt tcttgatgtg 120
gaaacattaa tggaaagtcac caattctctc gaactcagcg gttttgctcat ggggtgcagag 180
gtggtcgatt ttgttaagaa ggcgcctcac gtttaaccca caatcggtag ctttaaaaaa 240
tgctattttg ctttttgatga tggggcttac ttctcagat ttgaacgcga gggtaaatcc 300
agacgcgttta ctgaggtgcc tgactgggtc gtttccctcg cggaatttgc ccgctcgcaa 360
tggtcgatta accatgacct ggcgcggtg aaggcgacgg cgtttattga cgtgctgatg 420
tctacaccgc ttaaaagagc ccggggcgac tgcaatctgc tgtttggtct ggaatcgcat 480
aaggtcaagt tgggtcccgcc acctacagcc cctgcgggaa aaatgggcaa taaaaacgga 540
aaaaatcca agcctcgctg tacggatctc ggctcttttg agctttttac cgcgttcttt 600
gcgcgtatga aaacccgcgt caatgctaata gaattcccta ccctacaggt gctgaccggc 660
caggaggatc ttacaaaagc gcgcacaaac ttaaaagcaag ggatcagaag ctggtttaaa 720
gcgattactg gcgatctgcc gccgaacaac aaacggtcgc gagcgggcaa tgcggtgctg 780
ttctgcgctc ccgttcgcga cagatccag cagatagagg ccactgcgct ggaaaaatac 840
tatcagggat tatcaaaagc catcgctgac gccgggggat ggtttatcac tgacttcagc 900
tatacctggt ctgaaaagta a 921

<210> 5209
 <211> 258
 <212> DNA
 <213> *Enterobacter cloacae*

 <400> 5209
 cgaagccacg attttcagga ggggtgcttt gccgcagcgg gagggacggg ttatcagttt 60
 aaattcgccc ggagagagac aaaaatcgac gtgctgaagg atgggtgttat caccacacgg 120
 aaagccaaca tccctgatat ccagaagatt ttttttatta ttcattccga ttccattaac 180
 cgctgtgata agaagagcct taagcataat cctttccgct acgcagcgct aatagcotta 240
 acctatagca agtggttaa 258

 <210> 5210
 <211> 186
 <212> DNA
 <213> *Enterobacter cloacae*

 <400> 5210
 cgatgtttggg ctaacgtcat caccgtgtctc agcggcggagc agcacgacag ttccaaaacc 60
 agcaacggcg tgatcgagtt gatcctgatt acgaacatca ccggagacag taatatccgg 120
 ataaaaatga ctctgtgttt tgtcgaagtt agtaacatca aaatcagttc tggaaatctc 180
 gattaa 186

 <210> 5211
 <211> 192
 <212> DNA
 <213> *Enterobacter cloacae*

 <400> 5211
 tgtttttcgg gatggcgctt cgtttatccg gcttacagga ccgtaggccc ggtaagcgcc 60
 agcgccacgg ggcaacaaaa aggcgaccac acggtcgctt ttttttatta caacagctcc 120
 cgcgcggcgg acacaatgtc atgtgcccgc aggcataact ccttttgcaa gaagtccctgc 180
 gtgcccacct ga 192

 <210> 5212
 <211> 183
 <212> DNA
 <213> *Enterobacter cloacae*

 <400> 5212
 tttgacgagt taacgcttat cgtctacggc cctatcagggc tggcacagga taccgatac 60
 ggggtagcga tgacaaaaa ttttgaacgt tgcataggcc tgttgggttt tgcacgaaa 120
 attttaattt ttatacgtga agttgaggta cagccatgtc gacacccgaa atcccgtccg 180
 tga 183

 <210> 5213
 <211> 252
 <212> DNA
 <213> *Enterobacter cloacae*

 <400> 5213
 gccagcgaga aagttatttg actggatgta tttgcgagtc ttgttgttgt tgatgggtgcc 60
 atcacctatc agcgcgtctc tgatgaacac ctgcccgttc tgaataacga acggaagcgt 120
 aacggctcgt ccggcctggt cgtttacggc gaagcgggtca gccacgaaga taacctgcga 180
 ctgcatgccg gacggcgatc tctcaacgcc gatccccatc cctgcgcggt aatactgacc 240
 attgctggct aa 252

 <210> 5214
 <211> 210
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5214
 ttccatcataa aaataaagca cgaatctctg ggtaagcctg tactgaacct gattgctggt 60
 aagggttggt ttgtctcgaa gtatatctcc acgctggatg tactgaacgg gataaccttc 120
 aagctctccg tggacaatac ttttccattg agaccagata gccttatcca gtttcaccag 180
 cccggataaa tcatccactt tgtatattga 210

<210> 5215

<211> 414

<212> DNA

<213> Enterobacter cloacae

<400> 5215
 ggaatcatca tgattcgcat ggaagttaaa gggcttcagg aattcgaacg ccaattactt 60
 tcccttggtg aaaagggttg tacgcaggtt ttacgggagg cggggaagc tgcacttgag 120
 cccgttctgg aggatatgaa agcgcagctg ggttacgacg aatcagcgaa agatgagcac 180
 atgcgcgatt caattaaaa cgcctcatcc tcttcgaaag caaaggcgaa tgcagttggt 240
 tatcttcgct ttggcccgag taaaaaacac ttcatacaaa cgttggctca ggagatggga 300
 accgtaaacg aagtcgcaag tcccttcatt cgtccggcgc tcgattatca gaaagcgaaa 360
 gttctgcgca tccctcgcat agaaatacgc gaccgaattg aaaaccacg gtat 414

<210> 5216

<211> 405

<212> DNA

<213> Enterobacter cloacae

<400> 5216
 agattctacg gtacaaatct ctgtgctaac ctttgcctaa aacaaaggag caaaaccatg 60
 aaaattgtat tgagtgtatt gttattgact gcatttaatt catcgcagg aactgtagac 120
 gattatctag agcgtcattc tgaataaaaa tcaaatctcg ttgctgaaac ttatgtaaac 180
 cattaacgct ttalgaattgc gatgatgaaa gcacaacaaa acataataag atctgataat 240
 gaatttatta ctgggttgct ttcaataaat ggtgatgtat atgcaagatt agcgggtaaa 300
 aagcttgcaa atgattgttt aacgcaaaag agcattgtgc aatccggaga gttaataaat 360
 aaagagtgtat atattgtgat tagagcagat aaatcagaac aatag 405

<210> 5217

<211> 375

<212> DNA

<213> Enterobacter cloacae

<400> 5217
 ctgataacta ttgcgccttt cgggcgcgtc ttttttcggg gcaaacaaat gcttgatcag 60
 aatgtggtag aacagcattg ccgcattgat accgacttta cgggtgatga tgcctctgct 120
 gagatctaca cagggtcgccg ggcccggtag gtccagacat ggacacgcgc aacgctctat 180
 gaaagcgaaa gcagccctgg ctacgctgac gaccocggacc cgatactgct caatgatgat 240
 gttaaaggcag ccatgctact gottatcggt cactgggtat caaacaggga atcggtagtt 300
 ataggtgaaa ccgtgtctca gtttcattta gctgtggagg ctctcttcca gcttcacagg 360
 atatatggcc tatga 375

<210> 5218

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5218
 ggagaattac gggaacatg taacgggagg cctcttacgg gcctctttt ttttcaggag 60
 aactggatag cgggaatatg tgttcagaca tgggacgcac caggcaaggt aaacaactat 120
 ggogttaagc ctgtcagcgt ttgtggctat ctccagctgg cccagaacca gaaacaggc 180
 tottacacag tagcgtctcc accgggttgc aggtgacct attttcagag catgaacggc 240
 gatcagtttg gtacagatgc gaggaaagat accatttccg ggggaacagc aacagttgtca 300
 gcagcaggcg ataccgacta ctacgacagg actgagcctg cggcagcggc ttatctcatt 360

ttccagatcg agagggcata a

381

<210> 5219

<211> 1419

<212> DNA

<213> Enterobacter cloacae

<400> 5219

gcgccaacac	gttcaccagc	accacctgcc	actaacccat	tcagttttga	acaaaccccg	60
ctcgcggcgg	gtttttttatt	gcctggagaa	aacatgattt	atactactgg	cactatcgcc	120
atcagcgga	acacccttac	aggtaccggc	acaaacttca	ctgctgctgg	atctcttatt	180
cgtaacggat	gtacogttat	tgcaatgacc	agccctgtgc	aggtatttca	gattaccacc	240
attggcagcg	caacaagtct	caccgtaacg	ccagcggcta	accceagct	tcocgcggga	300
accogatttg	ccattctctt	gagtgacagt	ctgagcgtgg	atggctcggc	gcaggatata	360
gctgaaacct	tcacagtgta	ccagcgctac	atgagcgggt	tcgctgatgt	aatgaacggg	420
acatctgatg	tcaccattac	tatcaacggc	actgcggtta	ccgtgccggg	tcaaaaatct	480
ctggcggaag	aaggggctaa	cagcgacatt	accagccttt	ctgggctgaa	aacagctctc	540
agcattgagc	agggagggac	cggcgcgaa	aatgctgctg	acgctcgac	aaacctcggt	600
ttaggaaact	cagccacgct	taacgcgcgt	cccaacgaaa	catatccaac	tgatggtgtt	660
ttgactgtag	ggcaatatgg	catcgagaca	caaaacccgc	ctcttaccac	agatttcaaa	720
accatagatc	gtggtggaat	atttgccggg	gctggtctcg	caggcgctaa	tttttataac	780
gcggtttgac	ctgtctctgt	gatgagcaga	tattcatctt	ctgcaatgca	ggccatacaa	840
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gacgttcgcg	tcgatctgcc	agaggatagc	atctggaaaa	caagagcttc	cgaagctctt	1380
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<210> 5220

<211> 498

<212> DNA

<213> Enterobacter cloacae

<400> 5220

aaaaccacgg	tagcgtctgc	tgccaccttc	aaagagagag	aaattatggc	tgataaaact	60
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gacgtagcaa	caatgaiaac	actcattaac	tgtaaacgcg	tgggcgctac	aggaacagag	180
ggcagctttg	tagactgcac	gcgctgctac	gataccagta	aacaggttat	ctctgacctg	240
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gatttctcta	acgcagcaga	gaacccggaa	accgtacagt	tttacgtttg	gctgcacaa	360
ggctcgaacg	cgaacatgat	tctggccctt	tctggctggc	agatgaatga	aattaccggc	420
ccggcaagtg	aagtcattca	aatcaactgt	cagggaatac	agaacaatat	tacttgggtg	480
acggctgcgc	gcagctga					498

<210> 5221

<211> 378

<212> DNA

<213> Enterobacter cloacae

<400> 5221

ttctcaaggaa	aaactatgtc	taccatcgat	gtttctgcac	ttaaatccgc	acttotgaag	60
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acggcgccgga	aactcatcga	tcatgaagaa	gcgctgcgag	acagtcagat	tcagagaagt	180
gcacgtataag	cttcagagat	cagtgctcag	ttgatcgctg	attgtcttgt	ccatcccgat	240
ggcagctctaa	tcgcagctaa	agacaagct	accgcagccg	agctactcca	gactcatgac	300
aacgtggcgc	tccttgatgc	aatgcacct	gtaaaaaaac	atgcgctggg	taagcttgaa	360

gacgcggaaa aaaactaa

378

<210> 5222

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 5222

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cagcacgtgc	cggttggaac	ctgc aaaagcg	gataaccaga	tcgacgagac	cacgctctat	180
tttggtctga	atcgcccgcc	aggggocgag	attaccggca	gcgagtggca	cgagtttgtt	240
gaccaggacg	tgacgcccgc	ttttcgcgat	ggcttaaacg	tggttgatgc	ccgtggtcag	300
tggtctggga	acgacggcaa	ggtggcgcgc	gagccgagca	agggcgtgat	ctgtatccac	360
gggaagaatg	cgcagatga	gaagaatatt	gaagcgttgc	gcgggatcta	taagtccacg	420
ttcgcgcagg	atcggtgat	gcgggttgac	cagccggtgt	gcgtgcagtt	ttaa	474

<210> 5223

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 5223

caaaacagcc	aaaaaggact	ggacttaacg	ctgcggggtt	gtgggtatgtt	tgaggcagcg	60
gcacaggaag	tgaaccttct	gctgagacga	aaacccgatt	ttatcgttta	ttttcatcgc	120
gataaaaaga	gaccgaatgc	gattcctgta	ttcgggtccag	ggaaatggct	cttgggagag	180
agcgcgtcgc	taaaagtgtg	cattaatgca	ggctcaatcg	cttcgccctt	taagaataga	240
tga						243

<210> 5224

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5224

ctaaaggctg	gtcaactaag	cgaccagcca	cattacatga	ttaacattgt	tcggtttcta	60
tcgcttccat	tcgtattcca	tatcctcgta	ggcttcattc	gttttcgaga	tgaaaaacaa	120
aataccgagg	ccaataaaaa	taacgaaggg	aatgatgatg	ctcgcaatca	gttccagat	180
tgctggcgga	tcgtttttgc	ccaggaaaact	gatacagatg	gcaatgaggg	ataa	234

<210> 5225

<211> 1383

<212> DNA

<213> Enterobacter cloacae

<400> 5225

agaatataca	aacaacagcc	agaccgggat	ttcactgtgc	cagtcgtcat	gattgttttc	60
ctctatgtga	tagccgtcgc	aatgggcctc	gcgatccggg	ctctcacctg	gcctgaacag	120
gaacacgtta	cggtctctct	ttttgtgcct	tcagttattc	tgcccatctg	tggtgtatcg	180
ttgtcagttt	ttacaagtct	catatttcat	gacgcacaac	ttcattatgc	tgaaacccga	240
aaattctatg	caaaagagca	ggagattaat	ttaaaggcgt	atgcgcgaaa	aaatatcgct	300
atcgacagat	ggtctgcaat	caccccccctg	gaggaaacccg	cgctgaatat	gttgaaactg	360
gaaggcgcaat	ttccgctggc	accgaaaaacg	ccggttaata	ttcagctgga	agatcgcttc	420
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aaggactata	actaccgat	ttttgaaacc	gttgtctggg	ttcacggagg	gagtgatcc	540
tgcatgtgat	aactgaggcg	cactctggag	cggttgggta	ttgaaacgcg	agcgcagctg	600
aaaaattgagt	acagcacaga	atgtcctgac	tacgcgatcg	ttagccaatg	gatgaactta	660
tcgtattaca	gagttgaaaa	ccggttgatt	gttatcgttg	atttacaatga	agaaagcggc	720
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gggctgtccc	gtattgaaaa	atatccatta	atgcaggcac	tggataaaaa	agcgctcacg	960
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tcagacaaaa	acaaattttg	tattacttgc	ctttctcca	tgaagacagc	tatcccaaaa	1140
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atctgggaac	tgattgcgag	catcatcatt	cccttcgtta	tttttattgg	cctcggtatt	1320
tttgttttca	tctcgaaaa	gaatgaagcc	tacgaggata	tggaaatcga	atggaagcga	1380
tag						1383

<210> 5226

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 5226

atgccagctg	tcagcgtctc	ctttacactc	aatccccatg	atgcgattga	cgattacccg	60
cccgcaaaaa	tcacogagaa	acaggacatt	acttccttcg	ccagaaataa	gtacgggttc	120
accgttttct	gttgcgtttt	gccatgcatt	cagcaactgc	tgagcaactt	cggcacgtac	180
aatttgatta	gcattccggt	gaataccaaa	ggatttccag	ggcttaaggg	agtgattcat	240
agacgctatc	ctgatgcaaa	aaccgggata	gtttaccgta	tatatggggg	gataggtgat	300
ttgtttatgg	aaaggaaagca	ggtgttag				327

<210> 5227

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 5227

atatcgccgg	gtaaaaaagta	tagactgtca	gcctccgcag	gcattggaaaa	taactcgtact	60
gtctggggg	cacgggttaact	gtcagagcctg	atgattgact	tgtgctcact	gcacatcgta	120
attatggcca	cgccgggaate	cttccctctc	gcgcctatcg	tctgttttat	cagactgatg	180
gcactctcat	taagatccgt	attaaaccac	cagactctc	gtgctggcaat	gtgctggcaat	240
tctgcccata	atgactggat	gccaatagaa	aatactggat	ccacggtgtc	cctctttctg	300
tcgaattttc	atgtctctca	gtttacttagc	gaaagcgtag	aaataaacct	aacattgaaa	360
ttaagaacca	tcagatttag	catgttaa				387

<210> 5228

<211> 552

<212> DNA

<213> Enterobacter cloacae

<400> 5228

gctgtcagac	gaagacgcac	cagatttcga	cggctatctc	ttcgaatcgg	tcctcttttt	60
ccagggggaag	ctggtgtgaa	tatactgccg	cttcacgctg	cgcgcagatt	tacacagcag	120
gtgatcgact	ggatcttgta	cgcgttttgt	gaaggatgc	cgcgtgcctt	tttccagagc	180
attgtcgagc	acagcctgac	gcggggcgag	ttaccgctca	cctttattgc	cgttgaggat	240
gaccagctgc	tgggcaccgt	tgggttgttg	cgttcgatt	taattttccg	acaggatctc	300
caccctggc	tggctgcgct	gtatgtcgat	gaagcgcgcc	ggggaaaacg	gctggcgga	360
aaacttcagc	agcatgttat	cggctacgcg	cgcgcgcgcg	ggatatacga	gcttcatctc	420
tgggtctgcct	gcgcgcactt	ctacgaacgt	tacggctggc	actacatcgg	cgatgcgctg	480
gaataccggg	ataaaaacgt	ccatctctat	cgtgtgtcgc	tcacggcttc	cgcggcgcat	540
accaccgagt	ga					552

<210> 5229

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5229

ccaaagcagt	atttgaact	cgtggcgctca	cgcgagatgc	acttctctgac	gcttctccgg	60
------------	-----------	-------------	------------	-------------	------------	----

acctgcttcc	tctcaatcag	caagcagaaa	agcagcgctc	agagacagtg	gaaaaaaatg	120
ttggcccaat	atctccaggc	ctggttaaat	ttactgctga	ccccctgttc	ctggatctct	180
ggcaagacc	cgcgctga					198

<210> 5230
 <211> 597
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5230						
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aaaaagaaga	cagcggttaa	ccacgacgat	attgcggagc	ggcgaatcgt	ctccctccgt	120
catctcgctc	cagagcgggt	tgctgaatta	tcagagctgg	aatatcgctg	gatcatgacc	180
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aagctggtca	aggcgggcta	cgtaaccagc	gagaaagcgg	gaaaagagct	ttttttctcc	420
actacggagg	agggaaaaag	gctgtgcatg	aagtaccggg	aggtgcggga	ggcctgcctg	480
atcaaacattc	gtgcggaaa	cggtattccg	ggcgctcgca	ttggcgagac	cgcgagtgta	540
ctccgcgcga	tctccctcct	gtatgatacc	gcgcgacgag	cgccggccctc	gcttttaa	597

<210> 5231
 <211> 387
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5231						
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gctatcaaac	cgtaacggcg	tcaggttgaa	tctaccctca	gaacttttgg	tggaagcttc	180
atcgatcag	gaggtgaacc	cgatgttaaa	gaagggtttg	gagcaacagg	cagactgggt	240
gtaatacaagt	ttgagagtct	caaaaatgcc	caggactggg	atagctcgcc	cgcataccag	300
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ccagaactgg	ctcctgttac	accatag				387

<210> 5232
 <211> 267
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5232						
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aagcggcgct	tgaccatgct	catcacggcg	atgcaggaaa	atcacggttc	gactgtcttc	120
gggtggtcaga	tggtatagcc	gatccggaaa	ggcgctcgcg	atccgttgcg	ctatctcggg	180
aagaatatgg	gtctcagcgt	cgtaatggat	ctggctgcatg	gctcggaagc	gcagaccgtc	240
aagatgatac	tcggagagcc	agaataa				267

<210> 5233
 <211> 1167
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5233						
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cattccgacc	gccattggcg	cactgatcat	ccatatgaag	cgctgtgtac	gctcogagtc	120
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tatcaggtta	tcaagatcca	gatcccgacc	gcgttaaccc	tgtcgtgggt	gaacgtgttc	1140
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<210> 5234

<211> 1005

<212> DNA

<213> Enterobacter cloacae

<400> 5234

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ctgcgcgcctc	ggcagctgca	cccgatcttt	tacggctggt	ttgactggca	ctctcgggtg	180
cacggctact	ggctgtact	gcgtgcctg	cgtctctggc	cogaaatgcc	gtgcggggaa	240
gagatcatca	ctctgttcga	agaacacctg	accgacgaga	aggtggcgaa	ggagtggcg	300
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gcgctggcgc	aggagctgaa	gcaatcgtca	ctgcgcgag	cggagcgcgt	gtaccagacg	420
ctgcaacgcg	taacgcggga	tattcgcgag	cggctgggtg	attacctcac	caagcttacc	480
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gatgcgctgt	cgcgcctctc	ctcgggcaagc	gtggagcatg	ttgtcggcag	ccactacagc	960
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<210> 5235

<211> 801

<212> DNA

<213> Enterobacter cloacae

<400> 5235

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gtgggtattg	gttttgcact	gggtttcaac	ccgctgctgg	ttgtcgtggg	ggcggggcct	180
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gcggtactgc	tgattgatgc	gttccctgaa	gagaaacggg	tcgaggggat	cgaacccgct	660
catatcgcgc	ttgtgggcat	tccgacccgc	attgcggcac	tgatcatcca	tatgacgcgt	720
ctgctacgcc	tcatgcccag	cattcgtcgc	gacgtgatg	cctggaaaag	agagcagggt	780
acgcaggaga	tgcaccatg	a				801

<210> 5236

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 5236

caggactgta	aaacgctatg	gtgtaacagg	agccagttct	ggcaatcctt	ctacgatata	60
gggtcgcgaa	ttgccgcgac	ggtgtcggat	aggaatgato	ttctggtatg	cggccgagct	120
ataccagctc	tgggcatttt	tgagactctc	aaacttgatt	acaaccagtc	tgccctgtgc	180
tccaaaccct	tccttaacat	cgggttcacc	tcctctgacg	atgaagcgct	cacaaaaagg	240
tctgaaggta	gattcaacct	gagcgctgta	cggtttgata	gcgtcaagat	cggtcgcctg	300
aaactctgcg	atgtaataag	caggcggtgc	tgccagggct	ga		342

<210> 5237

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5237

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ttactcggct	taagcctcgc	cctgcggggc	gttgctaaag	caacgttata	ctccctgggt	120
cttgcgatta	actcgcatac	cttaaaacaa	cagcatcgct	gttatccagg	agaatatggt	180
gcattccggg	ggattcgaa	ctccgaccgc	tcggttctga	gcgcgagtac	ctatccagct	240
gagctacgga	tgcatcgagg	tttactactg	ttactgtcga	tactcgggat	cgcttcaaaa	300
gcaacacaaa	gtaaaaatat	gtgcattccg	gaggatttga	acctccgacc	gctcgggttg	360
tag						363

<210> 5238

<211> 390

<212> DNA

<213> Enterobacter cloacae

<400> 5238

aataaaggct	cctctgctgt	aattatctgt	ctcttttattg	cttttatagg	catagtattt	60
tcattttata	tagactatcg	gaaaaattat	cgccagggtta	atcaaatata	tcgatatta	120
acaaatcaac	agttgctcaa	aaaagaagat	tatcaaacct	ggcaaaatct	tggtgtcttg	180
ggattttggt	tcttcaccac	aattttatca	cgggtcttac	agggtaagcg	tgtagatta	240
actgagtgct	gttggtctga	gccacagtcg	tgcaataaat	ttttttctga	ttttgatttg	300
tcattgggtta	agtcgtatag	aagaaaaata	cttattgcca	ctgttatatt	tttactgctg	360
ttaattcttt	cgagcattaa	tagtgtctaa				390

<210> 5239

<211> 1152

<212> DNA

<213> Enterobacter cloacae

<400> 5239

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<210> 5240

<211> 1056

<212> DNA

<213> *Enterobacter cloacae*

<400> 5240

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<210> 5241

<211> 1500

<212> DNA

<213> *Enterobacter cloacae*

<400> 5241

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<210> 5242
 <211> 522
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5242
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 gtctggctaa atggattttt attcattttg tcagagtttc tgaaaatcta ttccctgtgg 480
 atttataaat atgaagggga aaggcccccg gtttaagagt aa 522

<210> 5243
 <211> 885
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5243
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 ctgcttcgcg ttggaagccga aatcaaaagt cgtccgcggg atgcgatctc gcgcgccgcg 180
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 ggtgaacagc agcgggcgcg cgtgttcgcg ggagagcgcc gaccggcaat gcccgaggcg 360
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<210> 5244
 <211> 1893
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5244
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 ctccgcatgc gcggcatcga agtggcggac cgtacattg agcgcctgat ggaaggtttc 180
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 gccctgcgtc aggaaggctt tgatgcggac caggccctgc ccccgatcga tctgcttaac 780
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atcaacagct	ttacggagtt	cacgctcaag	agccagcagc	gcggcgaaat	cggctacttg	1860
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<210> 5245

<211> 387

<212> DNA

<213> Enterobacter cloacae

<400> 5245

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ttcccccagaa	ataacgggaat	gaatgtgaa	ctctttattac	tggtgctttat	tgtggaacca	180
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gcctacattg	agcaacgata	tcaattgatt	gcacgtttga	ttgtaggccc	gtgcaagcgt	300
agcgccgcgc	ggcgaaactc	acaaaacgca	cgtagtccag	agtctgacgc	tcttacgcgt	360
ccttgcgtct	cagcagcgcc	agttttag				387

<210> 5246

<211> 588

<212> DNA

<213> Enterobacter cloacae

<400> 5246

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aacgggtttc	acgagcata	ttttatgaat	aataaaaaat	ttcatcggtat	gtggttccct	120
ttttttgcgt	tgatttttcg	gctgatccgt	ggttgtacgt	cgtcttcaca	gcgcgacccc	180
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<210> 5247

<211> 1032

<212> DNA

<213> Enterobacter cloacae

<400> 5247

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aaagccgagc	agcagttttg	cgacaccatc	attccggcag	agcctgcgca	ctggaacagc	180
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<210> 5248

<211> 630

<212> DNA

<213> Enterobacter cloacae

<400> 5248

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aaaaaacggt	acatgtatcg	cgtaaaggat	atgattgctt	ttctgccaac	tgtactgggt	420
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aatattttgt	cagatgattg	ccatttcttg	ggtttctccg	gtaatgggtc	gtttattcct	600
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<210> 5249

<211> 555

<212> DNA

<213> Enterobacter cloacae

<400> 5249

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ccgcataaaa	cagcgatcac	cgatgatacg	attgtgacca	gccaggtgaa	tggcatcacg	180
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gctgaccagt	acgaagccac	cgtgcgtaaa	caggcactgc	gcccgaaagc	gcgtaagaaa	480
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<210> 5250

<211> 1386

<212> DNA

<213> Enterobacter cloacae

<400> 5250

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acagaagaatg	acctctctca	accagttctg	gagtgggggg	ccttcagcgc	ttcgtatctc	180
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ccgtag						1386

<210> 5251

<211> 837

<212> DNA

<213> Enterobacter cloacae

<400> 5251

gccgtcaggc	cacgttcaac	gtcgacggac	atcagggtcac	gctggagattt	gcccgaaca	60
gcattccgca	cccgttccag	cttcccgtt	tctcatgcc	ataaccgcaa	ggacagcgt	120
atgacgaata	cccctgcgat	gaaccgatat	agctggtagt	gcaaattacc	cagccgcggga	180
gattttttgc	agcgtcgtt	tccggatacc	ctgcaaccgc	agtgggtgca	ctgggttccag	240
gtcggcgctg	tggcctggca	acaggaagag	cagcgccagc	cgagcgccgc	gttttctaaa	300
gccccggtgt	ggaactttgt	cgctcccgcc	atgctcggtg	gccagatgat	tcagatgggc	360
tgctgtctgc	ggggcgctga	cagcgtaggc	cgccactatc	cggtatgctt	gcaactgaac	420
ttcaaccccc	cgaggttggt	atccccgtg	ctcgggcagg	ctgagagctg	gtaccagcag	480
ctttggcgct	tgggtgtgca	cgcggtgcgt	aacagctatt	ctgcctccca	gctggatgaa	540
atgctgatga	ccatccccgc	gccccagccg	gttgagccgc	aaaagcgctt	cgacattctc	600
gaactgatgt	gctatgacga	cgaggggtcag	agcacgctg	gctggcgcca	ggcgccggag	660
tgttttgatc	cgctggcgca	gaccagctac	tggtggacaa	accgctcgca	cggttatccg	720
ctctacaccc	acgtccacag	cggaaaactt	accggggcag	tctttacgct	gctgttcgat	780
ccggcaggcg	ggcggtctgc	ggggccgcac	ggtctttacc	cgcttatggt	tgaataaa	837

<210> 5252

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 5252

acatcgtcac	cgagcccgga	gaccagcatg	gtccgcgaat	ttggtctcgt	gctggcggtg	60
aaaagccaat	tcccgcggga	acacgtgcaa	acccatttct	ctgcccgatg	gaaggttgcg	120
ccagttctcga	aaatcccgga	tctggttcag	cttcagctgc	cgggcatcat	gcttcggggca	180
atgccccgtg	cgccgcgcga	gatccccgtg	catgcagctg	acagctattt	cgaactcgaa	240
aggggcagcg	aactgtggca	cgagatggac	aagtccgggg	cattcgcgct	gcattctcgca	300
ggggaattcc	cggtgtctga	tatggagttc	tgggcccatc	gtagcccgac	agaataa	357

<210> 5253

<211> 396

<212> DNA

<213> Enterobacter cloacae

<400> 5253

ttggttcgtt	attcctggca	gcgctacgct	ctggagcctg	aaatgagacg	tttactcgct	60
ttctgatctg	cgttaaatac	ctcatatacc	atgcgccata	ctctcccgga	cgtaaacacc	120
ttttctcaac	aacagatttt	tgaaaaactg	gtgcagatac	gctgtatcgg	caagatttgc	180
gacagtgcga	cgctgaaaaa	tgatgcgaag	gcaagcgccg	cagcatggct	ggaagtcagt	240
aacctgcctg	ccgagaattt	cgaaaaagcc	gacgaggtta	tttaactcct	actgaaacaa	300

agcgtagggt gtacggcacc ggcaactat gaggtattaa agtgcagctt aatatcccat 360
 agcgatgcga ttcccaact caatgtccaa aataaa 396

<210> 5254

<211> 987

<212> DNA

<213> Enterobacter cloacae

<400> 5254

actttctgca aaagctacac attaaaaata caaggagttt acatggcaag tccgtcaaac 60
 gttgctccag gttactgtgt cgttcagcaa ccggcactc tggattttca ggcaagacag 120
 ctattttgca ctgcgcgcga tgaataatcc gaggatttta tgcgaattga taagacacac 180
 gogtggttca aacccggaca aatattaatt gttgctgacc cgcttgccga taatcaaac 240
 caacagatca atagcttagc cattgcaaaa aagaaggtga ccaacggctt tgcgactttg 300
 gatggagcca ccgctgagtt ttgaaaaat aattatgata atataaaagc cataaacaggc 360
 tggggcgata caatcgctcg gggcgtgagc ggtacagggt agtcataatt taagcaaat 420
 gaaatatttt taattaaaaa tgaagccacc tatcaaaatc agtacaggac acaaggtgag 480
 ctttttggcc aacaatttta tgcgtagcgc aatgcgcttt tgcgcgaatt gaacccttg 540
 ttaataaaaa taactaaaaa acagcttaag tttaagattt atgcggatct taagagagca 600
 ttaggactgt ccacgaaatc aatagtccat gaatggagta cagttggtat tgggtcaatc 660
 cctggctact caacatatat tgacagagca gccagaatat cctcttacct gaaagcagg 720
 ggaatgggtt ctttaggttt ttcttttatg aatacgtcta acgaagtta tcatgctgc 780
 actactggaa gagaacatga gtgcagcaga gttgcagtga cagaatatag caaatttga 840
 ggcggtgtcg ctggtgtctg attaggtctc tcccttgagg ctccgttttg tcttgcat 900
 ggtgtgcca cagcggggc aggtacattc atggtgtggt caagtggag gacagtgagg 960
 gcagggggaa aacaaaaat ttgttgtt 987

<210> 5255

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5255

caggcgctta cgcagctcaa tgaggtgcgc aatcagcggg tgagtatcat ctactgccat 60
 gtttacgctt taccactcga caggggggat gattcggaac caggcgcgcc ggggtttacc 120
 tcagcgggtt tgaccagggg ctcttcgggc ggcaactgct ttcttaactc ggggtctctc 180
 ggcgattgct ctggcggaag ggcctga 207

<210> 5256

<211> 300

<212> DNA

<213> Enterobacter cloacae

<400> 5256

cgcccgaggc gogatttccc ggtgcagggc ggtgatctgc tcggttaagat gctccgcaag 60
 ccacgcgacc tgttctctgt gttcactctc aaccgcgttg cgaagctcgt cgaggtttgt 120
 ctgcgcttca gcaaggtaat cctgaatgac ggtgctgcgg gtgcggaaga ctgcgcggtc 180
 aaagcgcggt ttcaagcgtg cgtggcccat cagcgggtgt gctgcgccc gcagcgcgat 240
 cagctgattt tgaagcctct caagaagcag tgcgtgtttc aaggcgcctc ccagtggttaa 300

<210> 5257

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5257

tgccataagg ctttctctct cctcccccct gcaaatattt caaaatctgc cttttttcat 60
 gcttattgcc tttttattgt gttttcaaca attattcata aacataagcg taaaaattgt 120
 cataaactat taatcggtct ttgtgtattt gcaacaaaaa tggatcacc atcgcaaaag 180
 gagacggaat gcaccagcc acaccgctta tcaccacat tgttgggtga cttgtgctcg 240
 cttttattct cggcatga 258

<210> 5258
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

<400> 5258	
cgctccctggc gtttatcttc cgccgttatg ccgctgggta tcagctccgg cgcgggctcc	60
ggcgacacaa acgcggttaag tacgggtgta atgggtggta tggtaacggc gaccgttctc	120
gcatctctct tcgtaccggg gttctctgtg gtgggtctgc gccgcttcag ccgcaaaaaat	180
gaagatgttg agcacaatca ttcggtagaa catcaatga	219

<210> 5259
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5259	
ccccctgagg ctgggtgttt attttgtcac agtcgaaatt tggctcgcga acgctctaat	60
ccctctctgc ctacgctaaa tatcctgaca cgctactggg ttttcaccca gtgtttttta	120
ctggcaatcc tggccacac gagtaaaatt actcacctgc cgcttattct gtcactcagg	180
cgctgcccat ga	192

<210> 5260
 <211> 1038
 <212> DNA
 <213> Enterobacter cloacae

<400> 5260	
tgtaaggaaat ttccctggaa ggggtttacac ctgotttcgg cgggtcggtaa catagcgcta	60
actattttgt ctgcgggact tattatgaaa aaaccagcgt ttatcatcac gatcgatacc	120
gaaggggata atctctggca gaaccaccgg atgatcaaaa cggaaaacgc gcgctacctg	180
gcgcgggttc aggcgctttg tgaacgcttc ggccttaagc ccgtctggct gaccaactac	240
gagatggcgc tcgaaccggg attcattgag ttccggaag aggtccatag ccgcggccag	300
ggtgaggtgg gaatgcattc ccatgcctgg aatagccctc cggagcagca totgaccggt	360
gatgactggc gctggcagcc ttatctgatt gagttttcag acgaggtcat gcgtgagaaa	420
gtgctgttca tgacccgctt actggaagag actttccaga caaaaatgct cagccatcgc	480
gccggcgctc gggaattcga cagccgttac gcccggttc gatttgagct ggggtatcag	540
tgagattgtt ccgttacgcc gcgcgtgaac tggcgcaacg cgaagggtgc cccgcagggt	600
aatgcggaaa cgaattacca gcaatttccc gatcgccctt attttttgga cgtagacgac	660
atttcccgcc cgggaaacag cctctctctc gaagtgcgca tgagtatcca gtataaacac	720
ccggcatggc tgaattccct gaagcagggt taacatcgct tcgcgggtaa ataccgttct	780
ccgtcagtta actggttaac ccgcctccgc ggtaacgcgc agggatgatg taagggttcgc	840
cagcagtgcc tggctcaggg gaatgactac gttaggttca tgctgcattc gtcggaaatt	900
atgcctggcg cgagccctac ttttaaagac caggcccgca ttgagggaact gtatcaggat	960
ctggagcagc tctttacctg gttatcagat aagacgggtg ggaatgacgt tcgggaggtt	1020
taccagtaca aaaaatag	1038

<210> 5261
 <211> 327
 <212> DNA
 <213> Enterobacter cloacae

<400> 5261	
acaacccttc cgcacgtgcg gtctcgaggt cgcgtgttaa ctgtttgtaa aaatcaccac	60
gcattgcaat tctccagact cggcaaaatt tggcacatat taccocaaacc aatagttcat	120
gaacgagatga cgcagtatct ctctctcgtt ttgcagcata aatcacgcgt acccctgctg	180
catatcggtg aatggctgaa gcctgagcat ttgatagata tgataaagag attagcgttc	240
gggatatttc ccgactcata ctccaagggt tacagttatg atcatcgtaa ctggcggcgc	300
gggctttatc ggcagcaata ttgttaa	327

<210> 5262
 <211> 930
 <212> DNA
 <213> Enterobacter cloacae

<400> 5262
 ccaaacgaga agaacatgtt taaattcctg aatgctcgct accgccacat tacggggcgt 60
 cataacattc cctacgcttc ccttcgggtc accgcgatc togttgcgtg tgattccatc 120
 gtgatccctt gtacggggcg ggatttcgtc gaagaggcgt tattatcagc gacctttgca 180
 gagcgttaac ccaccgaagt cagcgagatt gttatcgta cgcgatcagc tgaattccgt 240
 ttccggcgagc tgcgcgtaaa aaccgcggtt gtcacctca cgtttccaaa acgtgaagag 300
 gggtaccgct ataagcagat ctaccctcagt cgtctggtga agottaatgc tccgtttgcag 360
 ggcgcgggtg aaggggtgct gatgatcgac tccgatctca acctgcttaa aatgccagag 420
 atcaacatgg cggatatgca catctactcc agcttcctgc agggcaaaat gattgccaa 480
 ctggacgggtg cgcacggcga gaaagtgcgc gcattattaca aagaaacggt gcgcccgat 540
 ctggtcgatc acgttaacgg cgcgtttctt cgcggccacca aaaagacctg gcgccgtatc 600
 ttcccgctgt ggctgacgct gttccaggat acctgggagc tgatggagca tacgcagcgc 660
 ccgacgcatc agctgccgct cgtgcgctg ctggacatgc tggatgtaaa aacggttaac 720
 ctggcgcatc ggatgaactg gccggtctcc aagaagatgc gccgtcagga agccgttgtg 780
 ccgaaagaag tgattggcgc gcacgggtgg ttcccgcttt ccgagtgcca gaagtatctg 840
 gaatgccggg ataacaactc gctgttcaaa ggtcaggact acaccgcga ggtgcgttac 900
 ctgacggagc aagagaaaaa gaatcagtaa 930

<210> 5263
 <211> 246
 <212> DNA
 <213> Enterobacter cloacae

<400> 5263
 ttccagcatg gttcctcgtg tgagatgcag aatgcaaaaa accccgcagt tgcgggggtt 60
 ttcaatacaa ggaagactaaa attatttgat tttagcttct ttgtacagta cgtgctggcg 120
 tacaactgga tgcgaattttt tcagttccag tttttccggc ttagtacgtt tgtttctcgt 180
 ggtgggtgtg aagtgacctg taccagcaga agaaaccagc ttgattttct tcgcgaatac 240
 ctttag 246

<210> 5264
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5264
 tggtagctgg cgaaggtgac gatgtctggt atcaacgttt atggcgaacg ctggagccag 60
 aatatttcga cattatcacc caggaggcgc aacgctacct gttaccgtta tacaatttta 120
 atcagtcctg agtctgtgat aaaaattcgc cagtatgagg tgttcattta tgatgcacct 180
 cttatcagcg actga 195

<210> 5265
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5265
 ccagtatcgt cagctatggc atcatgcgtg gaataaatcg cagatatcaa cattaacgct 60
 cccgcggcgg tggcaagtca gtcgggggca gacaacacag tccgatgtg tcagcatcac 120
 ggtcacactt atttctccta tggggcgcca gggcgcgcta accgctctgc aatgcccggt 180
 tag 183

<210> 5266
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5266
 ctctgtcgggc tcataaccgc aaggtcgtcg gttcaaatcc ggcccccgca accaacactt 60
 cttaaaacaa taacacccct gaagggtgtt tttttgtatc tggcggttgt gaaaatgccg 120
 ggcatgatac ccggtttaat gccctacccc cgcgcgcgca gcggtttccc gtctgagaag 180
 tag 258

<210> 5267

<211> 258

<212> DNA

<213> *Enterobacter cloacae*

<400> 5267
 aactgttcag acagacatgt cagggataaa gctgaagaaa aaggtacaac gaagaataac 60
 caagacatag gcctgccggg taagtgggtgc acaggactgt cggaaaagtag gctcagagag 120
 ggctcgttaa gcatgatgca ccaccgccag ccagccttaa taatggtaat gtaccactgg 180
 gttaccagac agaccagttaa cgcatacaac ataaaaactgt tttttaaaaa acgtcaggaa 240
 cgtagcctga ctttttaa 258

<210> 5268

<211> 480

<212> DNA

<213> *Enterobacter cloacae*

<400> 5268
 ttatgaagc atctgaaaat gattgcagcc atgttactgc ttactccttt gacatcattt 60
 tcacaggaaa cagacagcgt ggaggcttgc aataaatata gcaccgctct gacagagctt 120
 ttatgaagc aattgcagaa gtccacagcag gcaaaaaatc ctggcggaat ggatttggtg 180
 gctgctaacc acgctgttgc ttctgcactg agcaaaaagt tcttcatttt taaccgggt 240
 gatgaacaca gcatacaaac ttctgctgaa aaataaaagg cactgaaaga tgataccgaa 300
 gctcttgtaa agggctacac catcattcag ccagataata taggaagcaa taacatttca 360
 tataaaggta gcacaggctc tcgggatctgc tttgttcagg tcacacgcag taagtcatct 420
 tcaaatacta gaacgggtgc tgcgcgtagc atagattgca cggggcctga acagaaatga 480

<210> 5269

<211> 420

<212> DNA

<213> *Enterobacter cloacae*

<220>

<221> unsure

<222> (37)

<220>

<221> unsure

<222> (44)

<220>

<221> unsure

<222> (107)

<400> 5269
 agggaaataa ttgggtattt tagcaatcat tgcagtnatc gcncctgggtg gtacgcttac 60
 ggatttatta acaccgcgtg gctgagcgct ttgcgtaaaag aaatganact atacgtggat 120
 cgcattggaag cagcggagct ggacttacac gcaatcagaa gtgtagcggg gcaccgggtg 180
 cagcgtgcag gtaaacagtt tgcgcacctt tacagccgta tcgacgggtg aactgtgacg 240
 ctgacacccc aagatcagct gtaactggca acgatgccat ttaatatcca ggaatgagaa 300
 gacatcgtta acgagcgcgg tccaaagaca attagcggcc gtccattctg ggaagttgag 360
 ccaggccccc ataatatga atatggcccg caatatccgt atttcccgag ccagcgctag 420

<210> 5270

<211> 387
 <212> DNA
 <213> Enterobacter cloacae

<400> 5270
 atgtcttgct acggcgataa aatgtttcgc cataaactg agcgagagtg gctcatccat 60
 catctacagg agctttatat gcgcaaatatt aagtacataa tctgtcacca gtgcgaaggc 120
 caccgggacca tggaaaaacc gccctttgaa aatgattca ccaaatcaga aatggctgag 180
 tgggaagccag aaatgcgtga aaagtatttt gccggagcat tcatgtttcg ctgtgacgtt 240
 tgtgccggtg acggttaagct cagtgtacca aacgtagcgg ctatgtcttt ttcagaacga 300
 cgggttctgg cagcagcgcg gcgtgatgag cgtcttcagg cagctgatga acggctgtcc 360
 cgccaggaaac gagcaatggg gtactaa

<210> 5271
 <211> 873
 <212> DNA
 <213> Enterobacter cloacae

<400> 5271
 ggtgcgacag caaagatgaa aatgacgaag ccaaaaccgg taagccggat gaaaagaccg 60
 tttatttagtg agcttgcaga actgggttta tcgggtgaaa ttctttcaat tcgaactgac 120
 ggcatgcagg ggacgcttat acccgatctt accgcagggg tgagtgaagc aggcctgttg 180
 aaaaaccgca actgggtaat ctctgacaa agaaccttcg accatgtcgt tttgtgtgtt 240
 gaaagaccaag atgagaacca tgatgtgttc gtatgtaaat tcattccagt acatgttagc 300
 gctaataaag gctaataagat cgtcgaaatg ggcatgtga aactgggtgc cataaccagc 360
 tcgatctcta ccacttttaa tggggggatt aggagattta aaggggttac gtatgtgtca 420
 ctttccaaaa cagctcaaac cactatcgac ttcccgaaag gtatctacaa agagggccag 480
 gaatgtactt ctgtcaccag cctcgaccag ggctccttcc cccgggatgt taggttgaat 540
 tgcatacggc gatgtgttgt caccggcgta aggtccccc ggctgactga ggccgcgcac 600
 ttaacgcccc gtcatgaaga aggaattccc gacgttaaca accgaatttt acttcgccc 660
 gatattcata cactgttcca caatgacct tgccccata accctgacac tatgaaatt 720
 tactttcagc cactgttcca caatgacct tgccccata accctgacac tatgaaatt 780
 atagagaaga cagcatgca ggttcgggtt aacatcgaaa accctcgat acgatggcaa 840
 aaatttaagg ctaaggatcg tcagcgtaaa taa 873

<210> 5272
 <211> 501
 <212> DNA
 <213> Enterobacter cloacae

<400> 5272
 tactgtagag cctttgttca ttgaaatcg tacaggagg cgcataatgga ccgcataaag 60
 tactctgaat ggtatagctga agaatacaca agtacggctc agcagctggt ggccgtgtta 120
 aacagagcaa ggcactatac gcccgacatg aaagagcctc aggcaggtgt acagattcaa 180
 gaaaagggga ttgtttgagg gcttagacaa agtactaatc gttatcatgg agattgtctg 240
 accatacatg ttgtacggct tcgggaagaa atacaaaaca agggatggtt taagtctttt 300
 ctgaagcttt gctgtgaatc gaatccctgg tcgcatgttt taatagaaga cgtgaaaaac 360
 ccatattttt taagcttttg taagaaacta aactttactg tattagatga attttaccgc 420
 aataacttaca tagtaaacac agatgccatt atgagtttac ctatcccacc cttagggaga 480
 tacgaaacct atctttatta a

<210> 5273
 <211> 273
 <212> DNA
 <213> Enterobacter cloacae

<400> 5273
 tgggtacaga aaaggcagtt gcttgccgtg gccgtaagtt accgcgcgaa aagcggctgg 60
 atcgaagcac tgatgcgcac tgaggtatct gacgagcagt acgaacgctt tctggggcac 120
 agcagagcga agcaggtcta acagatctta cgcggagagc agccaagcca ggggcttcag 180
 tatgcgaagc gagcgaagaa gctcgtcttc gaaagaaaag ccacaattga tctgataaac 240

gagcacctgt ctgaaatcga aaagtatcgg tag

273

<210> 5274

<211> 444

<212> DNA

<213> Enterobacter cloacae

<400> 5274

aaaccggaag	cagtgataac	acaaacaggc	ccttacacgg	taaggattgt	gatggacgat	60
aaagagcaat	ttacgaatct	tgtggcaaa	catgcctcgg	gactcacgga	agagcagctg	120
gcgggttacg	atgcctgttc	cctggatggg	gaatgcgtga	cgctctcata	cgagggtttc	180
cggggggtac	gtaccgcgca	taccctggat	gaatttctgg	agatggccat	atcgctgaat	240
gccatccacc	cggatgaata	tttaacggat	atgctgttta	agcctcatga	gggtatcggc	300
gctctggcgc	atgaaggcga	ccagctgaac	aacggccacc	cggtttattt	cttcccgcat	360
accggcgtct	atgcagcggc	cgtcagtga	accggggtgc	togatgcctg	gctttgtctg	420
ccatgctacc	cggcgaactg	gtaa				444

<210> 5275

<211> 408

<212> DNA

<213> Enterobacter cloacae

<400> 5275

ctgttctgtg	ctttgctcgc	cgggtgggata	gttcttgctt	gcttaaacat	aactcaggaa	60
ggaaatctga	tgccaaactg	aattgaagtc	atgactgtcg	cggagctgca	tgctcaacta	120
caacacgtgg	ttgatgaggg	gcacggagat	attccggttt	gcgcgtcaga	tctccgtgct	180
aggtatccat	ttaaaggctta	taccgcgtct	agtagccgag	gctataccga	agcgtgtcgt	240
attaatgtgt	ggccggatgc	ccattttaca	cgtaaaagag	ccctggccac	taactggggg	300
aaaaaccgtg	tagcagagtg	gaacagtgat	gcgatggccg	tgcgcagctg	ctgcggggcc	360
ttcgcagata	atcctcaatc	aagacaaatg	acagggtgata	atttatga		408

<210> 5276

<211> 573

<212> DNA

<213> Enterobacter cloacae

<400> 5276

gtcatgattt	cttcatoact	tttatgggtgc	tctttttcac	ctatcacaca	gcaagttatg	60
aatacagagg	ctgttaatgga	cgctaccgaa	actgaagagc	tcgaaaaaat	tcgcaagaag	120
gcaatggatg	aagtttacaag	tgctcttcag	gcgcttgaaa	ataagttccc	gggtattact	180
gaggggcgag	cagcttttgc	ggggtcaggc	gtaggcgagc	cggtttccct	tggtgtctct	240
tatacgcctg	gtacaaactgg	agtgctcagca	gctggcatta	cctccgggct	cgcaacagca	300
gggtctatcg	tcggtgggtgg	tatgggttca	ggcattgagg	tattggcgcg	acctgtagct	360
gtgttaggga	ttggcgggcta	cgcgggtggg	aaacacagaa	aaaatgcgaa	actgacagcc	420
gccttatgct	aggccatcca	aaagctctac	gaagttcagg	aaaggctcat	gtcgaattgcg	480
gaattatttta	aggcagaaat	tgctggcctc	aaggcaacaa	tcgacatgct	tactaagaaa	540
gtctccaaaa	gtagcctggg	cgcggtgagg	taa			573

<210> 5277

<211> 453

<212> DNA

<213> Enterobacter cloacae

<400> 5277

agagctaaaa	aggacgggtt	caattatatg	aataaaacag	cggttagttat	gattctggga	60
atctccggat	gtggtaaaag	atttgacgac	actgaattac	agctccagca	aaaacgcggt	120
atgcattttt	gtgcgaatgc	cagccttcgc	ttgttaattg	ccggtacaa	ttatcggaat	180
acgtctgaca	atggacgacc	agaaaaagaa	agagtgccaa	tctgaaaaaa	tgacgtttga	240
agctcaacag	cttattcaat	ggcatctccc	ggagttcaga	gggccaatgat	gagtggtggg	300
gaagatattg	ccgatccgaa	agaattagct	cttcatacaa	aagaggttag	acgtcttggg	360
gctagtattc	tttctgacag	cgggtgttaca	tgggcttcaa	aaacgggttc	accatttaca	420

gcctggtgta actttaaccg ttctgaaagt taa

453

<210> 5278

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5278

atgcaaaccc	aaaaagaaat	tacagttggc	cagatctggg	aagaagtgga	tccaagactg	60
atccggaaag	tgcgagttgt	tgaggtggcc	tcgttagaag	ggcccaagg	catcctaact	120
gaaaacgtgg	agtcctggcg	taagaactgg	gcgtcgtoat	cccgccttaa	tggaaaagcgt	180
ggggggatcc	gtcttatttc	ctga				204

<210> 5279

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 5279

gcaacagctt	catgcgcggt	tacaacaacg	acaacggcac	ggaattgccc	cggttcgac	60
tgctgaaga	tgctcaacc	gaacacgcta	tggtcttcgg	tgaactgtat	cgtcatggcg	120
ctgagtgga	gtttaaagct	gtcggtcagg	gctttgcgg	tggtctggcg	gctcttgcc	180
cccagcacgg	cgtttaacat	taaaataacg	ctgaatcata	ccccggcaat	ggcggggttt	240
tttttgggtg	cgatccgcta	tcaggagggg	ggggggcaga	aaggggttcg	gaatctcaga	300
aagcagagag	atgttaattc	tgacgtgagc	cttttaaaag	caggaacacg	atttttctct	360
ggttgctggt	taaagcctgt	attccgtgcc	ttatatcaac	agcatgcccc	tctgatatat	420
gttacgtttg	cgacttatga	aggcacgggt	tctggaagat	aa		462

<210> 5280

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5280

acgagctctt	ttgagcctgg	ttacagtgac	ccatttccctg	gaccattcat	caaattgtcg	60
ctggcgatcc	cgataacggt	gttcttccctg	ctgacgaagc	cagtcgcgat	caacagcgaa	120
ttttcggtat	ccaacaaaga	gcccttgtag	tttgcccatg	acaacattcc	ggtttgctta	180
gaactgttca	gacagacatg	tcagggataa				210

<210> 5281

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5281

gttcggctgc	ttcgcaagct	gatttcattt	ggaagaacgc	ggaagacctg	tgggggggat	60
ttcaacctttt	tgctccgaccg	tcattacggt	ctgacgaattc	ctctgctgcg	tcgatggag	120
tgccgactgg	agtcctacacg	ggaagcatcg	ctcgatagcc	aaccagccac	gattgagttc	180
ttagaagcag	agttcagtg	tgatttcgat	gcgtgctcat	cttga		225

<210> 5282

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5282

agggatgagg	acatgcagca	tggtacacgc	ttaaccccca	gatggatga	tgggcttgct	60
ttcaacctttt	tgctccgaccg	tcattacggt	ctgataattc	gtgaggaaca	cggatggag	120
aatgaagtta	cgaaggaggat	gctatcggtc	caggtacgcg	gaggtattgt	gcgtgactgt	180
tctgtgcttt	gctcgccggt	gggatag				207

<210> 5283
 <211> 1398
 <212> DNA
 <213> Enterobacter cloacae

<400> 5283
 ggtaaacaca tgaagtcagc tccttatgat gatgagtcca gggccatccg ttatattcag 60
 ctccgtggct aggatatcgc gaacgctcac gagacaatta gcagtgatat agagagcctt 120
 aaggcacagt tgaccgggct aatcagcggc actgaacttg atgaagcgga gcctctggcg 180
 cttaaaagaa atcatctcgc agaaatgact ccttcagata ctgccatcca tctctactagt 240
 ctcaagata tatatagcga ggotaacccag cgtgtatgoc gtgatattgg actgaccaca 300
 atactctcca cagatgacgt ggctgttgta gatgcccgga tccagaatca tattaagaa 360
 tttaatgata gctacgcgct cgaacgcttg gattatgcta ttgacctgoc atgtgggctc 420
 atagcatcca tgctggattt actttgcgtc agagccccgc caaaacctac ggtgagcttt 480
 acggcagaag tggatggcat ttccaataaa caggtgcaga aagccttcaa tgccattttg 540
 ccggaggacc tgagtaaaaa actctcagaa atgttcccta tagggggacc ggacagttcg 600
 atccacagcg atttagtggg cgcggccggt ggcgttttgt ctccccaaaa tcaccgctta 660
 cgtgctttgt caccagatcc catactgggc attattatcg gcataaagga tatgctgaac 720
 gggacctgta cgttggtcca gaatggacag atcgtggttt atccttccag taaaggcgtt 780
 actgaagaaa caaatatttt caggctcacc gccagaatgt ttggaacct ggcctcggt 840
 gtttaatgcc cctcagcaaa aggaaccggt ggcattgggtt taccggctcc ttttatgggg 900
 ctactctgta tgcctggagg gatccctgtg gggagtctca actctggcaa acaaatagag 960
 tacaattatg tcaacgggta tgaacttcgt cagtttatcg tgacaagtat tccgatgacc 1020
 ataattgaa ttttgatgoc ggtttcttat gtggcgaaac aggtatcgct gggaaaagga 1080
 cgttttgggg agaccttact ggataccatg ccgttgccggc caaatccacg ctccggagt 1140
 atgcttgccct tgggttatgg aacttccagt gctgttaacg caggttaaat gtatatcacc 1200
 ggcaattatc tcaatgcgaa ttacgctcc tggctggggt tggcctggaa tggttttcac 1260
 tcaactcaag tggctcttta tcagcgacac ttaaaagctt gggccggtat tgaaaaggca 1320
 gaactggaa cgtttcagaa caatatagac agcatcgagg cattgaacat cagagcagga 1380
 aacttgccag tcaagtaa

<210> 5284
 <211> 210
 <212> DNA
 <213> Enterobacter cloacae

<400> 5284
 tatgacagac tgaagcccg gatagcgctc ggcttttcca tgaataaaca gcgcgtgtc 60
 atgaagatca cggatccttg gcgcaaaagc gaatccacgc aggtgcatca gggcgaaaaac 120
 atgttcagtg aagcctgcgg tatcgtgtga atgctcggtg atttccagat cgcttttcagt 180
 gtacacgacg ccatcaagca cgtgggttga

<210> 5285
 <211> 384
 <212> DNA
 <213> Enterobacter cloacae

<400> 5285
 gtccagatcg tacaccagcg gtgtgatatt acggcctcca aacagctcgc ccacctcaat 60
 ccttggtcta aaatgaacgg tcaagggtggc cggatctata ccataagat cggcatcaaa 120
 cagcgcatcg atgttgagg tcatcaggat gccattagac ggattgtacc gggttccatg 180
 ttcaatgtgt gcgcgcatca ggacaccacc attaacccaa ccggttacgc cacaacgccc 240
 agcgaaatcc tccgatgaca gagctttaaa ttaccctgt gccacgccac tacgttgcgt 300
 cactacgcgc tccagtgct caccctggat atctacgtca ggtttccgca ttggttcgct 360
 ggtggcgctc tcaactgttt tttag

<210> 5286
 <211> 225
 <212> DNA
 <213> Enterobacter cloacae

<400> 5286
 atccagcatg gatgctatga gccacatcc gcaggcaata gcataatccc aggcgtcgag 60
 cggtagcgga tcattaaatt cttaaatatg attctggatc cgggcatcta caacagccag 120
 gcatccgtg gagagtatgt tgggtcagtc aatatcacg catacagct ggttagccctc 180
 gctatatata gtcttgagac tagtagaatg catggcagta tctga 225

<210> 5287
 <211> 258
 <212> DNA
 <213> Enterobacter cloacae

<400> 5287
 ttgtgtggag acaaaacgcc acgggcggcg ccactaatat cgtgtgtgat cgaactgtcc 60
 ggtgccctta tagggaacat ttctgagagt ttttactca ggtcctccgg caaaatggca 120
 ttgaaggctt tctgcacctg tttattgaaa atgccatcca cttctgcgt aaagctcacc 180
 gtagggtttg gcggggctct gacgcaaagt aaatccagca tggatgctat gagccacat 240
 ccgagcgcaa tagcataa 258

<210> 5288
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5288
 atagtggag gtattgagac actgagtttg cagcttgatg agaataaac tatggccctt 60
 gctcaattag ttaaacgtct gagctggagc gatcttcgtg gctgtgctgt gagtgacgaa 120
 gaagccttgg taatgaaaag cgcaattgaa aaattacaac aggcgttaag ggaagaaggt 180
 tatgccccto gatga 195

<210> 5289
 <211> 282
 <212> DNA
 <213> Enterobacter cloacae

<400> 5289
 aacgtgatca atttaacacc ttggccgttg accgtaaaga aagatgcgt acatacaagt 60
 gtgacccgt tctgtacgtg taaattcctg aatccggcga tgggtgacga atacggcgcc 120
 ctgtccctct cactcttcat caaccgtaaa actgccatcc gagtgtaaac aatgttagga 180
 tgggttagcga ttgataatga cgtaacaag catgttagac aatgttttga gaattgccac 240
 acgcaaaagt cctcttgac tctggcagc acattatgtt aa 282

<210> 5290
 <211> 225
 <212> DNA
 <213> Enterobacter cloacae

<400> 5290
 ctctctatta ttggccttaa cggaaatttc gttccctca ggaaccagg tctgattatc 60
 agtgagcgcg aaaaacggccc gcgagaacat ctacgtggc tcgcttttca atacaaaacc 120
 gtgtcccccgc gggcatttaa ctttgccca gatataatta ttgcatccc cgtgacccac 180
 caggagtcgt acctgtgggt aaagtgttt tacttcttg agtaa 225

<210> 5291
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5291
 ttccagggcc gttccggaag agagccaaaa atcgattacc agcaaacgtg gcggggccatg 60
 atctctaatt tctcggtagc aatcatctc attcgtcacc acacacgctt gtttaaacgtg 120
 gcaatgtgta atcagaaaaa tggcgatgcc gcttgctacc aatggatggt catcaacgac 180

taa

183

<210> 5292
 <211> 501
 <212> DNA
 <213> Enterobacter cloacae

<400> 5292
 gttccatttt ttttgatttt aaaattgcct catgatattg tcaacgaatc tcaccctttt 60
 tccaacccca ccccttttgaa attaaaggaa attaaaatgc tgcccgcacaa tcttgtcccg 120
 gcaagtagcc acattacgcc tgtggaacag ccttcgacgg aagcagataa agaggcggaat 180
 ttoactcaag gaaaaagaaa actctccgac tatgaagcgg acatattaat tgggtgttca 240
 cgcactggca aatcccgtaa tatggtgctg gaagagcaag atcgccattt aaaagagcgt 300
 ttatttcgag cgatcaagat tgaagcctta gtccatctgc tgaatgattt acagggccgaa 360
 ggggaaatag acgcccgagc gctaagtcaa ataattgctg agaaaaacga gcaataataat 420
 gaagccggca atgaaatttg gcttaattta attacgcgtg aaaaaaacaa tcccattttt 480
 tataacctgg gggaagatta a 501

<210> 5293
 <211> 318
 <212> DNA
 <213> Enterobacter cloacae

<400> 5293
 tttatgaaaa aaccactaat cgttttaacc gttacgttga tgttagccgg tgtgtccacg 60
 ttgaaacccg atcaggctat tccactcctg caagcggaaa cgcctaataa gctgggactg 120
 ggatcatcgg atgaaataac tgtgaccaa gttaattggc ccagccgga cgcactgggt 180
 ggacaaaagc tgtcttatcg cgcacgacg gaaaaaggcg gtatttttga ttgctcatca 240
 atgatgatgc cggggatttt aggatccgca cgcacactca gcgcgcgaac ctgtacacct 300
 gttgtcacac ataaataa 318

<210> 5294
 <211> 282
 <212> DNA
 <213> Enterobacter cloacae

<400> 5294
 ccactcgcga gaaagagacc ggtggcgaga atcctggagg agaaaaatccc ggaggcgaaa 60
 accctggcgg tgagaatcct ggtggtgaaa accccggagg cgaataaccc ggcggtgaga 120
 atcctggcgg tgaaaaacccc ggaggtgaaa atcctggcgg tgagaatcct ggtggtgaaa 180
 accccggagg tgaaaaacccc ggcagcgga agcggggcat tttccagacc gtggcccaaa 240
 gcagcaacca gtggaatacc gctggcgccg tctccacgct ga 282

<210> 5295
 <211> 477
 <212> DNA
 <213> Enterobacter cloacae

<400> 5295
 ttacgcgtga aaaaaacaat cccatttttt ataactggg ggaagattaa cgtgaatgat 60
 gatagcggtg ataactgtta tttgacttta gatgataaaa aaagcgatga atttatctta 120
 aagcagaatc tcgacgcctt gaaaaagata aaaaatgacg agatgacgag aattacgcag 180
 gatttggttt cgattccggc caecgtggta cgcctgaaat gccagaaccc tcgggagatt 240
 tacgccttgc agggccaagga ggagatatat gcgcgggtga tgaacgccat tattgaacag 300
 cgtcctgagc ttaaaagaaa gatcctcggg cgcactggag cgaactatca gtacctgctg 360
 gcacgcgagc cagccacccct gcgcctgacc cgtaaaactct cggaaggcaa ttaccgtaca 420
 tcaaacgtga cctgtgtggc gcttgatgaa gaggcgcga cggcgccctc agagtga 477

<210> 5296
 <211> 528
 <212> DNA

<213> Enterobacter cloacae

<400> 5296

aatcaaaaaa	aatggagcct	acccatgaac	agcattttct	tcacgggtcat	aacgttacta	60
ttactgaccg	ctggcggtgct	tttattgatg	caagagttca	ataaaacgaa	agtgctcaaaa	120
gacgtcagtg	aaccgcccga	gocctgaattg	atgtcgaaga	aggaggggga	agatcatttc	180
tcogtattga	tgaacgcgct	gacgcccgtc	tggtactggc	gagtaaatca	cgaatatatc	240
gatttcctcc	atgcgacaat	taagcgaatg	aaaatggcgc	aaattaatga	tacgcccggc	300
ctgttcgacg	cgcagcgcgc	ctgtagcgac	cttaattcgg	cggtctataa	atattacgac	360
aatatcaaaa	agcgcgtgtct	gaatggcgag	aaggtgtcgt	actccgattt	agatgtatta	420
aatctgcgcc	agtgttttgc	tgagtttagc	ctgggaagcct	acccggaact	ggtcgcgctg	480
gtctggccgg	agtatgcgcg	tcgggatgta	gatcccaacg	aggatatag		528

<210> 5297

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 5297

cgctccggcg	atcaggatcc	agcacagtgc	ccggcggtcg	aaaaagatat	cccagtgggc	60
aagctgaagc	ttccagctta	tgtcgatate	ctctgtgatc	atatccgggc	tccagtagcc	120
gacatccgcc	agcgctctgc	gcgaaaagcg	ggcgatgacg	ccggagacgc	taaaagcccg	180
gccatagatc	agtcgcgttc	gcttgatgag	gccaaatatg	gaagaaaact	cgccccacct	240
aatacgacca	atcagcggtg	a				261

<210> 5298

<211> 591

<212> DNA

<213> Enterobacter cloacae

<400> 5298

aagggatggt	tagtggcgac	ttaaatagtg	ttagtgactc	aggattgttt	cctgtcagg	60
gggatggcgc	tatttttccc	ggatataatt	tgccctcagtt	cgatagacag	aaacatatatt	120
gataccgacg	caaatgaata	taactgtactg	attgatagcc	gtacgcccgc	cogtttatat	180
gattacctga	tacgccatcc	ggccagaagc	agaaaaacga	tctgtcgcgt	tatgctggat	240
atgcgtctcc	gagaggagga	tctttctcagt	atgaagctgt	ttatgaacac	gtgccttaac	300
gctccggata	tggcgctcgt	attcaatctg	gtgcttgata	tgaaggcgag	cggtctgaca	360
accaaattgc	tgctttaact	acggctgagt	cgacacgaag	cgataatgat	cgggttgctg	420
aaggcaggga	ggatcaatga	agagattgca	gataagctga	atatgtcggg	taaaagccct	480
tatcgcaagc	gaacggctgc	gtcggagcgg	ttaggggcgag	ggaacttcaa	cgaggcgctg	540
ttgtttatct	ttaaaaaaaa	actgctggac	gcggttgagg	acgatcccta	g	591

<210> 5299

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5299

agccatcacg	cttctgcagt	gcaagcagga	accgtcgga	tgaggttttt	ccagagctta	60
caaaatgatg	gtatctctgc	tcggggcgag	atccgtttgc	taaacacaac	ctttcttcgg	120
ctggatatga	gcttttagtc	tgtgcccttt	gtgggttatt	ctttcgccat	ctggatttat	180
atgcttgggg	acgacctcgg	cccaacgatt	atc			213

<210> 5300

<211> 333

<212> DNA

<213> Enterobacter cloacae

<400> 5300

aagcggattt	ttgatgtgac	attgcggggg	aatgtgcggc	ctgatgccct	caccccaacc	60
ctctccctca	aggagagagg	ggcgcgtcgt	gcaggcatta	ttttgtgggg	atccctcagc	120

tcacaggagg	aggggcgaaa	cactaaaaac	ggtaacgggt	gttacgggtt	tgcattcaac	180
atggttattaa	acaactccgc	caccgcgact	gccccggat	ccatcacccc	gtccagattc	240
tctttattca	catacgacga	gcgtcccgcg	ccggtcttcg	ccatttttgc	cggttgctcg	300
ggccctgct	ggcgggcctg	cgctgcggcc	tga			333

<210> 5301

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5301

gcaggccgct	catccagaaa	gcttcacgag	gatttccaac	ttatcgggaa	ttggtacaca	60
gggtcaaatgg	caactttatt	tatacaaaaa	tgtgtcaaa	agtgcttacc	tagttgtttt	120
tattgtgtat	ttaactattt	ttacaacccg	ttaaagcacc	gggcaggtgc	aggggaggtg	180
gatctgactc	actatacgaa	agcggtatta	togatgcagg	gtgctgaaat	gcagatttat	240
agcagaatat	taactgtgtg	ttgcattcaa	tggcgataa	aatcaactgt	tttcagtcct	300
ggcgctataa	atgaaaaaaa	ccatcagaac	ataaggaaaa	gtaattacgt	tcagggtgaa	360
tga						363

<210> 5302

<211> 264

<212> DNA

<213> Enterobacter cloacae

<400> 5302

cggtttcatac	gcggaacctcg	cattcgccct	ctttttcacc	ctttttgcga	ggtaaaaacg	60
tttgaggact	tgtctcagag	ggaatctcaa	ttactgcata	aatatgatga	gcaggccgct	120
catccagaaa	gcttcacgag	gatttccaac	ttatcgggaa	ttggtacaca	gggtcaaatgg	180
caactttatt	tatacaaaaa	tgtgtcaaa	agtgcttacc	tagttgtttt	tattgtgtat	240
ttaactattt	ttacaacccg	ttaa				264

<210> 5303

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5303

aaacagtatg	gcgtaggtaa	aaccacaggt	gggtggaata	ttggtaaacta	tatgcttttc	60
atcaaaaata	agaaaagtcac	catgtatggg	caagaggggcg	acgaaaatttc	ttcaaacgctc	120
gaactggaaat	gctctaaatg	ggaatcaggc	gggtgcggttc	gcagcgacgg	tatctccatt	180
atcagtgacc	caaccacagg	cacaacgacc	cctgttgcat	ttaccactgc	gggtttcccca	240
ctgggtacct	ctctcgctat	tcagggggacc	gatacgtg	cgattactga	cgatacatct	300
ttagatggtc	aggcaacaat	taccctgaaa	tacctttaa			339

<210> 5304

<211> 669

<212> DNA

<213> Enterobacter cloacae

<400> 5304

ctcttcagac	ggctgcatta	ttgctccttt	gagtgcgaga	agaagcatct	ggaaaaagcaa	60
cgatacgggt	ttgattgtca	aatgaagcgt	ttaatttgtt	cattgccatt	actcgttgca	120
gtcaggttcgc	acgtctcagc	atctgaaaatg	accggcttcg	caacacagta	ttacgatgaa	180
gaaggctcgc	tgcaggaaat	ttcaaccata	gtgccccttt	ccccgacct	cacgatcgcc	240
aagaaaaacg	ttcagatgga	agttactcat	ctgtctcaga	ttttcagttac	atacgtggag	300
aaagacagct	ccgcgcactg	gatctgcctt	catgaacgac	atggcaccac	ttattggttc	360
atttcagata	acgaaatggg	tgcaggggcg	ttaactgcgc	tagccatctc	cagggatggc	420
atccataaag	agtggtgtgaa	tacaacggaa	cgagtcagtg	tctcagttcc	ttggcgttcca	480
ttgttaaatg	ccactcaccg	ggattttagtt	gaattgttgc	gcaaaaaaac	aatcgggcaac	540
agaaaaaaga	tectgtttta	tcaggagaca	cctgtacagg	atggattttg	tcagaacaaat	600
accgtctctt	attactttga	tggcgaaaaa	ttgcggggcg	taattatcgg	gcaaaaaaac	660

agtaactag

<210> 5305

<211> 345

<212> DNA

<213> Enterobacter cloacae

<400> 5305

cgcggaggca	gcattgacata	tgaggaaatta	ataaatttcgc	cagccggtga	gtttgtcatg	60
tttgcgcagca	aggatggaaa	agtttcgcat	gaatgcgcgt	tgcgaagcga	tacgtgtgtg	120
ctctcacagg	ccacgatctg	tgagttatac	ggcgaagcca	aagctacgat	cagcgggcat	180
atcaagaata	tttttgatga	gggtgaactg	gtcgaaaatt	cagttgtctg	gttttaccga	240
acaactgcc	gcgatggtaa	agttataaac	gttcaattat	ttagctcgcc	cggttattct	300
accatcgct	atcgctggct	tattaaaaat	ggaaaagcag	gctaa		345

<210> 5306

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 5306

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ttgcgcagtt	ctgatgccag	gataacttgt	aaacgtttgt	tatcatatga	gaaaattaaa	120
atggatattg	tacttttccc	tggtcagaac	ccccgcgcgt	ggcgtgaaac	aatgataaat	180
cttgaagccc	gcaagctcat	caataactgc	aattttgtcg	gagggcaaca	tctcagcgac	240
ggactcgcac	ggattaaatt	tatggatgat	attcggcagt	ttgtgatgca	acaattttag	300
gctaccggcg	cagccagaag	tgatgaggag	tgcatggaat	gcctgaaaaa	catccgggct	360
gagacagaaa	gtcttcttga	gcaaaagcga	atgcttctgc	cccgtagcac	tcagcttttt	420
gtcagattg	aactgggtta	agaaaataac	aaagtctctg	gttactttat	ctcatcgatt	480
aagttgtgtg	tttcagggtt	acagatttgt	gcaggtgttg	gtgcaatgat	gacaatgaat	540
ccagtgtggg	gccttgcagg	agcgaattcg	gttatggatg	gtgcaaatgc	catttcaaaa	600
gaaattaaac	gaacgcttca	acatcaacca	aactccgaag	gtatgctggc	agatggcgct	660
atggataatg	ctcagtttat	gggattttaa	cgtgaatcag	cacttggggt	attcaatagc	720
gtaagctcgg	cagcaagctg	ctatacggta	tttgccgcc	tcgggaaacc	cgaaatcatg	780
cgctctgttc	gttatctccc	gctggatttc	taccgcaaa	tcagcgaat	gaatgcgca	840
gcgctcacta	tgaaaattgt	cggctggggt	gtctctgcaa	aagtctcgtt	tgatttaatt	900
tctaatcgct	ctgacagaaa	ctaa				924

<210> 5307

<211> 885

<212> DNA

<213> Enterobacter cloacae

<400> 5307

tcttccgcc	aaaatacagc	taaatctact	ttcagagtta	ataacatgta	taaataatctt	60
ccctcagaaa	gaatcgatat	acttgaaaat	aacttaatat	gttttaataa	ccctttaa	120
tttaacgacc	caattgaa	caatacttct	tttaacttta	gtagctttga	atcccaattta	180
tacgattcgt	taagcactgt	agaccttctt	aaagaatttc	cagctgaatt	attaaatcag	240
attgaaaaac	tgccataaag	aattgtcagc	aatatactta	aagatgcaca	aaaagcaatg	300
ctctcgaatg	ataaaaaaga	aaaaaagaa	ataataagag	cagcagatag	tacaatgcga	360
agtttttaact	caaaagttgat	aggaataacg	agaattctat	cattaaacga	aaccctcagc	420
aatattttga	tgtggggaca	ctacgcacag	gccacagtg	ggtttattat	tgagtttgtat	480
atcaatcatc	catttttctc	acaaagctgc	ggccaaaaag	gtgaatttgg	ttatttacga	540
aaagtcatat	atcagaaaag	atatccattc	ttggatccat	tctcagcgca	tcaataataat	600
cattttctaa	taaaaaagcaa	agactgggaa	tatgaacatg	aatggcgcat	gttgttaaca	660
caggccaaat	ctgttaaaac	aattaatgta	tgtagaaaaa	agtttgatct	ctatgaacta	720
ccatccgatg	ctatcaaaaac	aataattttt	ggttgcaata	ccctcagaaca	ttttaaaact	780
aaaatgttca	gggttaataag	ttcacgaacc	gactatgaac	atatcagatt	tatacaggct	840
aaaaaatcaa	attcaagatt	tgagattgta	ttagaccgct	tataa		885

<210> 5308

<211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 5308
 ctaccatttc aaaaaggaa tgctgaagaa ctttgctgc ttaaaagaa agttatcgtt 60
 gcgagatata tgtggtatga attgatatta aaaaagtata aagttgattt atcgttgttt 120
 ttccatttta agaacaataa tgacataaaa aatgtatcaa gtatcaaaat ggtgaatatc 180
 gttaaataa 189

<210> 5309
 <211> 753
 <212> DNA
 <213> Enterobacter cloacae

<400> 5309
 gcaatgatgc ttttgccgcg tctctatgcg cgactctgcg cgcgccaggc cgggcgcacg 60
 ctgctggcaa accggatcac gcaaaactac agccagttta tgcgctgccc ggaggccgat 120
 gttccggctg attttctgca tcagaatgcg catgagctga gcgggtttaa cttcgtggag 180
 cagatcttcc gcgccgcgct ttgggcgcgc aacgttcggt ttgatctgca cgggtacgtg 240
 gcgcagtgga cgcgggagca gccattttac agttcatctc gccacctgct actgggcatg 300
 cgcctggggc gctttggctt ga-cgtggat gcgctgctcg ccacgcgcgc agccgatgtg 360
 cgccttcaagt ttattaccgc tcacctctgc ctgcataagc tgatggccgc gcacgaagc 420
 cgaacgcgca gctcgttttt cgcacctcac cgcctggtga cgggtgctgt gatggacgaa 480
 cgcctccgcg atgcgcgcgt gttctccacc caggcagggg atcaaaaaggc gtggttaacg 540
 gacgtctcaa cgcggttttt atcgcgctat ggctacagcg tccgaacgct gctgccgatc 600
 tgttcgctgc acgcggcgga gtttgggctg gagagtcagg cgtatgcgcg ggaggattac 660
 cgtcaggcgc ccgcgcgacac gctgaacgcg ctgcgcgcaaa ccccccagct ctggagtga 720
 tgggatgatc ttaactgat ttatcatgga tga 753

<210> 5310
 <211> 363
 <212> DNA
 <213> Enterobacter cloacae

<400> 5310
 tccacgttac tttccagaag aaaaggtagt ggcataaaca atattgaac gcagttactt 60
 gaatcagggt tcaccgtaaa agaattagcg tatctgaacc gaaacattag ccgttatggt 120
 tcatccctgc tcgaggtagt gcttgagtta ggtaagcgat ttatcatggt tctgtgtatt 180
 actgcactg tggccctgat tttccctggcg cttctttttt tcgctgaaca ttataatatt 240
 gtttccgggt gcattttctt ttccatcgta ttgattatg cctggttttt tcaacccccc 300
 atcattacct acaaacgctg gcgcttcaga aagaaataca ttagtctctg ccagacgcat 360
 tag 363

<210> 5311
 <211> 207
 <212> DNA
 <213> Enterobacter cloacae

<400> 5311
 agatatcttg ctcttgtagg tacgtacatg tcaacagcta aacgcgaccc taatcagta 60
 aaatccggaa aagcaccac ttttcagatt cgtattacgc cggagttgaa ggccagtttt 120
 gaggctgcg cgaaggctga agggatgagt ttgggaattt ggttaaaaaa tttaggtcga 180
 aatgaattaa atagattaaa aaagttag 207

<210> 5312
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5312

```

atcagcaatg acgcgtgtcg cttgagggtt aaaaatgcgt ttagtcgggt acactatcgg 60
aaatacgaga tgagaatgac gaatgaaaaa gaaaacatcg ctacgcgagg aggatcagcg 120
tctcttcgcg cagctgatga ccgggaacgc tcaaatcacg caccacacca ttgtccatcg 180
ccgcgacgct aa                                     192

```

<210> 5313

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 5313

```

tcagacgctc cagtaacgtg cgttgctgcg tggagagcgg ttgttcgcct ggcgctgttg 60
ggcgttacgg gccttcaccc ggaggcgccg gaggcgtaac tgaaatggcg tgcacgtgca 120
aaaatcctta aagtcaaac ctgcgttaacc gggcgggagat atatgccccg cgcgagagatt 180
atggcacact tggtaggttt acttctcttc aaacaggta cagacgtgta aaatcctcgt 240
tga                                             243

```

<210> 5314

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 5314

```

gacgttgaat tccacgggcc gtcactatct ettcaggggc ttcatgcat gcagatcggg 60
ctacgcaacg tgctaccacg cggtcatgta ttcagtgccg acctttcttc ttacaacacg 120
gggcagaaag cgcctcgtgc gaagaaacttt ccaacagcct tggctcggcg ctggggatgg 180
acagcgttga gagtccatc tegtcaaatg ccattgtact ga                                     222

```

<210> 5315

<211> 354

<212> DNA

<213> Enterobacter cloacae

<400> 5315

```

ggtttcgcga aaggtgcgcc gttaaactat cataagataa attttccggg gcgggtggcg 60
acgtcgtcag gcgccccctt aacgctggaa agtcttatgg ccccttcacc cgaagcccg 120
tcggctgaac gtctggttga catcattatt gccctgcacc gcaacggaag cgttaatcgc 180
cgcatctga tgcataaat ttggcattacc gaacgcacgg tgcaccgca tttgcaggcg 240
cttcccccga ttattgaaca cgcgcgcaaa gggcgctatc agctgctgcc tgcgtatcag 300
acctgcgcgt cgtgcactg cctgaagcg aacgacgaaa ccccgcgagg gtag                                     354

```

<210> 5316

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5316

```

cgatacccc cgcgctggcg tgtgcagcgc agtgtgatac cgacaccatg ctggcgctca 60
agcaaccagc cgaacttttg gcgcaacagc ttcatcgccg gtaaggctat accttacggc 120
cctgatttta acttaataca tcgcgcgcta tttaatatgg catataaacg taagatgagg 180
aaactgccat gtcttttg                                     198

```

<210> 5317

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5317

```

agtatagcct tacgcgcgat gaagctgttg gcgcaaaagt tcgagctggt gcttgagcgc 60
cagcatgggt tcggtatcac actgcgctgc acagccacgc cgtgggggta tcgtcacggc 120
ctgtgtttgc agcgcgccgac ccgcgtcgtc cagggtgacg gcgacctgac gctcatcctg 180

```

acgggaacgc tggcggaaga ttaa

204

<210> 5318
 <211> 1626
 <212> DNA
 <213> Enterobacter cloacae

<400> 5318
 tgccgcttta ggcgtaacta ttgtctctca aggaataaca tgaatgattg ctcactgcac 60
 cataccocgc aacagtttga acactgtctg gcggcgatcc gtcaggcgct tgttgaattt 120
 ttaactctgt tgaattgata tgtttctgaa ggaaaaagat cacgctggtt tctggagcaa 180
 ctggatagcg cccgcctggg gctggcgctg tggggcgctg tagccaggaa gctgaacctg 240
 aatgatgcgg aaatgacggc ctttaacgtg caattacgct tgettcaaga cgcgtgtccc 300
 cagtatgaaa gcgggcagga tgcagcgaa aatcagctga ttgcggcgat cgcgttcgtc 360
 acctcccttg aatatctcgg tctgcaacag cccctccctg cctacgaaac cgggaggggtg 420
 ccagagaagg agagccagc tcaggcgag aaacaggtgc gtgccattga gctgatgatt 480
 aaaggcgctg tacagcaggc gtggcccgac ccggtgcggc tgaataatca tcttaagaag 540
 ttgttttaac ctgaacggct gcgtcgctgg ctgaaaaacg tgaatttaa tgaatgtctg 600
 agcggcatgt tgttcacgga actggccag ctgctggtag ataaaaaga atttagccgc 660
 tactacgcgc cgtctgttaa cgcggcgac atgctgacac tgctggtaga gccccgcaa 720
 acctgcacaa ccttctcga agatactcga caaatccgca acagcatcac cgtgcagcag 780
 ccggttaagc gcgcgcaat ccagctgctc gaactgctatt acacgcagat caccgcctcc 840
 gttcagcgcg gctttgagga agggcggaac cgcgttaacc cggcgcgctg gatggcggtg 900
 gacgaagcgc agctgcacgc gttctgggaa aaggcgcaaa aaatggacgc caccacaggc 960
 ggcgatcttt ttgaagtgc gcacagata gaaaaaccga ctcagcgtgc caccgcgtacg 1020
 ccagagcagc gcgaacagct gatttccggc gtgctgtggg gagcgggttg cgtgatgggt 1080
 atcgcgattg tctgtggggg attctggctg gtgaacagca gtaaacccga gccggctgtg 1140
 gccagtacgc catctccgcg accggtgcag gagatgcgcg aaacgccttc ctcggagaga 1200
 acgctgacgc ggtatgggtg cactcgggat gaaaaacaac tccgttcacg tctgacccg 1260
 aacgataccc ggtgtgcgct cctgtttttg caggcgcgga tggactggaa aatgtcatcg 1320
 acggaggagg cgtgtgcgcg aggtacgac gatgtgctg aagtaattgt gcgtatccg 1380
 ctgcacaatga cagagcaaaa gccctgccga cgttttatta atacgcttag ccatgcgatg 1440
 gcgaacgggg aatcgctgac gccatgcgt aagcagttac tgaagcatt ctgtaccgtc 1500
 cctgcggtgg tgaacggca gcagcagac gccgatattg caacgcgcgc cgcgaagacg 1560
 cagcccgatg ccagcaca aaatggcg tccatccaga ctgcattta tgaggtgat 1620
 cgtaa

<210> 5319
 <211> 429
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (34)

<220>
 <221> unsure
 <222> (282)

<400> 5319
 cattgcgtag attatatata tgtaagattt gacnaaaata gcatttttca aaaacattac 60
 ctacttaaga aaagagatgt atttaagggt aaagctcatc ttgatacaga agtaatggct 120
 gattgggtag atactcaaaa agaaattaat ttatttactc tggattcgct cagcaaatatc 180
 aataatacag atgaatttaa caggaaaggt aacgaaagat taaatgaaat atacgaattc 240
 cgcgggtgac atggttaaga tatttaaaag aacagaaaaa tngaacttga ttcattagga 300
 cgaactcatg ttgctaattg aagatctgaa ccatacttc cttcatccag taatgtctg 360
 cttttgcctg gcggggagga gaaacaaaga tggtaaaag gtaagaaga gactgaggac 420
 gagaataa

<210> 5320

<211> 333
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5320
 aaagcgctac gcgttgcgct gttactacgg aaaaagatta gagatatgaa aatgcacgta 60
 aagatcacccg caaaactgat ggccaaaatg cacccttgct tcgcgctggt atgggcgata 120
 ctgactattc ctacccctgct gtggtggaaa aacagcattc tgtgggtgct gttaatgagc 180
 atttacgcca tcgtgatttc ccatctggct gcgtacagcg ccgcccatgc agaaaagcgc 240
 gccagcaagg cgtatggataa aagcgaagcg gccagccaga aagccaatca aaccgccaac 300
 agccttcaag gcaatgcgcg tcaggcacat taa 333

<210> 5321
 <211> 243
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5321
 atgatttgct atttgttggg taagccggag aggaaagagt ggggaattgt cccggatattc 60
 aatcaccggag tcattaaact cagccagata gaaaaagtta ctttcgacag aagaaaggag 120
 atgatgggtt cgaaacgtct taaggccaaa gactatcgaa cggtttccac gggatttaac 180
 gtctcgagct ctaagccagg gctgataact ttggccatag cccactcta tgccgtcacc 240
 tag 243

<210> 5322
 <211> 204
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5322
 ggcgccatac catcctggat ctggcacgga agatgtatcg aaaagcgctt gacacgttcc 60
 agatcgaaat tcaggagtggt atttcgcatc gccgttcgct cacttgaaaa gccgggcagg 120
 gaaaaccgct acccgccgcg ccgcgttaag aacgtaaatc aatcaccata cggccacgga 180
 tctggccctg ttccatctct ttaa 204

<210> 5323
 <211> 312
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5323
 tgcaatattt gtttaacagg tgatcaacat ttgtgcagcg tagttcaact ttggtgcagt 60
 gtgcaggctg aagggtatct atttggtgaa tacgtcagcc tcttcacatt ttttggtaag 120
 atgaaagctc tggggaaaaa agaggggacc ttacatggcg aatttgcctt gccgggtcag 180
 cgtgcgcctg atggctctcg caaaaaaaat agcgtatggt atcgggatca ttgtgctcgt 240
 tctgctttcg gtgcgggttt atctttcgca gcaggggcca gccctgcacg actggcacac 300
 ctggcgggct ga 312

<210> 5324
 <211> 336
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5324
 atttgtcggt ttttcataag gcatggggct cgccaggag atcaattcca caatactgcc 60
 ccagggggtt tgtccatagc agaaagcatt ccttcacct tgctcatccg gaaacgtgag 120
 cggctttggc gcggtaaaca tctccccgcg gccagcggtg aaagcggcta tcgccttacc 180
 aaaatcatca acataaaacg caaaatgctg gaggccaaag tcgctggcgc gggcgggcat 240
 tccctgttca gggccatgca ttctgaaaag ttcaatgcgc ggtccatggg gcataacaag 300
 catgcgaatg gcgtgaattt ttgtgcggcg aaataa 336

<210> 5325
 <211> 534
 <212> DNA
 <213> Enterobacter cloacae

<400> 5325
 caggagttta ctatgccatc gtcagtaagg ggcacgacc atatcggtat taecggtgcc 60
 gacattgaaa aagccaccct attttttgaa cgcgctttcg gcgcacaggt tttatatcat 120
 tctgtcgatg cggaaaccca taatatgtat caggccgccc agcagcacac cttaaaatta 180
 tttcccgcca caaaaaatca cgcctattcg atgcttgtta tgcgccatgg acccggaatt 240
 gaaacttttcg aaatgcattg ccttgaacag ggaatgcccg ccgcgcacag cgactttggc 300
 ctccagcatt ttgctgttta tgttgatgat ttgataagg cgatagccgc ttaccgcgt 360
 gccggcgagg agatgtttac cgcgccaaag ccgtccacgt ttcgggatga gcaagggtgaa 420
 gggaatgctt tctgctatgg acagaccccc tggggcagta ttgtggaatt gatctcgtgg 480
 ccgacgcccc tgctttatga aaaaacgaca aatttacgac gctggaaacc ctga 534

<210> 5326
 <211> 207
 <212> DNA
 <213> Enterobacter cloacae

<400> 5326
 ggtgtgcagt ttctcactgg taataaacat ccgaacagtc acgtcccgag taggcggttac 60
 cagttttctgc cggaaacgag gaaaggcgcc ccggaaagcg ttccggttcag tactcacatt 120
 cctgaaaata ttgatgtaca gcaggtaaca ttccgtcagt gtcatacccc gggtgaggag 180
 tacactcatc actccgtttg tcagtga 207

<210> 5327
 <211> 252
 <212> DNA
 <213> Enterobacter cloacae

<400> 5327
 cgggtatgtac catatcagat gtatcctgag aaacatcata tattaacaat agcatatatt 60
 gcggttgtat caacgcttat attcattttg agaacatggt cgcaattagt taattatctc 120
 gaagtaacgg aatatgtcca gatattatat tgtgattatt attgtgtggg tattaatgat 180
 gttgttcatt atttaaacaa aaaaagactg agggaccggt atccggaaaa tgttgtatcg 240
 ccaggaggat aa 252

<210> 5328
 <211> 849
 <212> DNA
 <213> Enterobacter cloacae

<400> 5328
 gatttcggag aaaaaaagat gcgttatacc cgaaccagca ctgcaactga tgtcactgat 60
 aactccagac aataccaggc tgactltgctg acaggctcct gctggatgtc ggtatggcca 120
 ctgatagagc ggctactgag tcgtgagaat gaaatgcagt cggtctggca gaatatgtcc 180
 cgtcaggcgc taacctggca ccaatgctat tgtcttctgg agcaaatcat actggcgggc 240
 cggtttcagta gacctgatat cggttcccca ttgaaagagg attatcgcca gcttgaagaa 300
 ctgaaccgca ctatcagtaa ggaggccggt gaactggcac agaagatat tggccgagat 360
 cgcgtcctga accggaacgc attcacactt gagagaacca cgcacatcgt ggaactgatg 420
 gagatgctgt aagataatga tgggctttac cgttattatc ttcatgaaac actcgatggc 480
 ctgacctgtc gttatgacgg aaaaactcgg ccgggactcc ctggcgctcc cgaggttata 540
 gcaaggagac acccggaatt tggatgtcta tcgaaagcgc atcgggccat cattaacggg 600
 ccgcggcaaaa tgctccccga ttatctccgc gaattattca gtatcatcga gaactcagg 660
 cagggtccat ggggtctcgc gaaagaattt acgttgacgg acagtgcctt ggctacgctg 720
 gccactgaca cactggatca tactgaatg ttctccgctg atacggtaaa aatagccggg 780
 agtgaattca gcaaaaagag agagcgggga gcatggccat ttaagccact gaaggcagtc 840
 gatattgtag 849

<210> 5329
 <211> 1740
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5329
 gtggatcaact tttttaccgt tgttgacagc aatccactca gcaccatocg cgaactgcta 60
 tttcttttacg aaatggaaga tegtttcagt gccgataaaa aaagactocg ggtggccact 120
 gaactgctcg agttactcga gaccgatcaa gttctcagga gagaagcatt tgaggacatc 180
 ccogctcaac tggtagctct tctggacaga gatttgctgg ttgacccccc tgcagcccg 240
 gtggaaaagc gctctcgtct tatctgtagc atctgtgtac aactggcgga tatcaccgag 300
 gccagtata tcactgaggc tcttgagatg cttgaacagg aactgtttgc atggccccc 360
 ctggatgaac accatgcacg ggatatttac tcactgacaa accggatgat gagtgtactc 420
 ctccaccggg gtatgacact gacggaatgt taactgctgt acatcaatat ttcagggaat 480
 gtgagtactg aaccgaacgc tttccggggc gcctttactc cgttccggca gaaactggta 540
 acgctactc gggacgtgac tgttcggatg tttattacca gcacaccta 600
 cttaaacgcg aaggaccacg acgcaggtc aacggatgtg tgttcatgcc acttgatgaa 660
 gcccgacaac gcttctccct ctcatcgat ataccggttt gctcaatgtc tgacacatct 720
 gcccgataca tggccggtca gatgtctcgt gaactccctg atgtcattgc ctacatggta 780
 ggttaaggag atatcaccgt ccagaaacag ttcattgataa tcagggtatg agacgaaaca 840
 gaagtgcgcg gcttcgataa tgaatccgag gcaaacccgg accggttaac ggacgaggag 900
 tttgcgcgtt ttatggtggc gatgaaccca ctgttccagg atacaaccca tgtgtccgt 960
 aaaaaaatca gctccgcatt tccggttttc cgttaacgca ttgaaagcca agttcaggag 1020
 agtcgtttca ccgcttactg gtccggcgtt gaactattaa cgtcaggagt tgccctctgc 1080
 acacactcac gtgaacacga tgtcatcggt gttgtggctc cctgtatggt tgcacatct 1140
 gtgttgaagc aactgttttc tctaagaaaa gttctgcgtc tcatctctgc agagccaggg 1200
 caccctctgc gcacacccga gatcgcttca ctcccgctg ggcaactcta tgcctttctt 1260
 aaagatcgcg accgggtccg tgaacttccg acagatttac agcactttcc ctatgtcatg 1320
 tatcggtgtc gtaagctgc cgggatctgt gcgtcacccg agaaaagtgc gataaaactg 1380
 gggcaacatg ccgagaagt caccgcacat cttcacccgc tgtatctgt gagaataacc 1440
 atcgtgcaca atgcaggtac cagcccgcac attgacctg tcacgggtga ccttgaacac 1500
 tatctgcggg caacaatcag ccgcttgttt aatattgtgg tgatccacc caccgtcagc 1560
 accgctagag aggcatttac ccggtgccag ttaccagtg agtcagttt cagggaactg 1620
 aacccctctc accggatcac ggaaagaaa gtatacacag ccattgataa tcaagtga 1680
 aacgggacgc tttcccgtag cgtatgtcgt ttgatagcat ggctcaatgc ccaccactga 1740

<210> 5330
 <211> 225
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5330
 gctcagcagg attactttaa catcttaacg accattttct tcttttttat tccggactgg 60
 gaattcagta tgtaccocaa tgaatcagc atctggatta tttatccgca aaaaacatg 120
 tcatataaag taagggtttt tatgtattt attgatttta ttgattttat tgattttatt 180
 atcgatgaaa tcggaactac tcttacttgg aagcacggaa agtaa 225

<210> 5331
 <211> 246
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5331
 accttactga tgcgctgtaa acatcagcgg cattccttat ttaataccg gcgcccggcg 60
 aggcaatcgc cttactgtcg cataaatccc ttttgtcatt attcctctt aactaatgt 120
 tcggcacatc ggttaacgcc attcaacgta accagctca gaagtaagt tgatttactg 180
 attacaggat taaactatgt caaagaaact ttttggtgcc cccccaacc tgacagacgc 240
 cagtaa 246

<210> 5332
 <211> 519

<212> DNA

<213> *Enterobacter cloacae*

<400> 5332

gaaacctggt	gtaccagggc	acagcaaaaa	caccaaatct	tatccagtg	taaacatcac	60
tgttatgcag	gtggtaagga	gaacctgatg	aaactattta	cgattgggtt	cacacaatct	120
tcggcggagg	atttttttac	gcgtctgaag	gaatccggag	caagacgtat	tctggatgtg	180
cgtctcaata	atcgctctca	gctggcaggt	tttgcaaaac	aggacgatct	gaagtctctt	240
gcccgtactc	tgtgtgatat	cgattacgca	catatgccag	atcttgcccc	gacgcgggaa	300
atgtttgagc	gatacaaaat	acagaaaagg	gactgggata	tatatctctc	ggatttccatc	360
gattctgatta	caaaaagaca	tatcgaaaacg	ctcgaaaaga	gtcagtttgc	tgatgcttgc	420
ttatttgtta	gcgaacataa	accacatcat	tgccacagac	ggctggttgc	tgagtacctg	480
gcagataaat	ggcctgatgt	cactatcatg	catttatag			519

<210> 5333

<211> 204

<212> DNA

<213> *Enterobacter cloacae*

<400> 5333

cgctgtctgt	gtgccgtttt	gacctgggac	tgccgcagcg	tagatgcgac	cacggagatt	60
aaactgggtc	tgccgctcgc	tgccaccccg	atcgacatag	ctatgcccg	gacgcgaatt	120
gtccgcggtg	cgtgctgtgt	gacgaataat	gcgctggagt	ttgagaggat	atcgacctg	180
gtacctgagg	actgggttaa	ctag				204

<210> 5334

<211> 210

<212> DNA

<213> *Enterobacter cloacae*

<400> 5334

ataatgttca	atgtgcccg	caattttccc	actgacagga	tcaatccatt	ttgcggattc	60
tataacatca	tcaaaaagtt	cgacctgat	ggcctgatgt	tcggaatcg	cagggaaat	120
atcaataacg	tcaccgcgaa	cccggaacat	gcgccgtccc	agagttttgt	ctgtacgggc	180
atactgcaga	cgtgccagtt	gatgaattaa				210

<210> 5335

<211> 492

<212> DNA

<213> *Enterobacter cloacae*

<400> 5335

aggacattta	aattgaacag	aatgacagga	ctcgctgttt	tatgcctctc	gtgatggga	60
tgcatgtccc	tgccatcaga	aaacagtgcc	cagtacctca	gaacggaaa	gcagtcgcca	120
gtatcagggg	caaccataat	taccgttaact	gcggacagcc	ttatgaaaca	agacaataca	180
cataacgcta	tactgtatgc	acttcgacgc	atgcctggaa	aagcattcac	ctctgagctg	240
gacagaaaat	ttgcgcgagc	gacgatgtat	attgatttgc	ctccgggtga	aaaaagcaga	300
acggccgaga	tcagtgtgtg	gataaattac	tatgatcacg	agcgatacgt	gaatgctcgc	360
ctggtaggag	acagtatcag	gacaataacc	attgacccaa	agaccatccc	gcttacactg	420
aataaaccat	tctcaatcaa	tctgccacaa	ggtattacct	attcagtcac	gctgacggac	480
agccagcctt	aa					492

<210> 5336

<211> 411

<212> DNA

<213> *Enterobacter cloacae*

<400> 5336

aggaacaacat	ccatgtccaa	tccagttatt	tcaggcaatg	gcattctctc	tcacgtcttt	60
atcgtgtcgtg	tagatgttca	aaagtccgct	gagtttttat	acgccacttt	aggtgcactc	120
ggtatcaaca	accttggtcc	ttttggtaat	ggctgggtgt	tgtttggcgc	tgacaagccg	180

gctttcatca	ttgcccgctcc	tggcaatggt	gaagcgccat	ccagcaatgg	tgtgacaaatt	240
ggctttgtgtg	ccgccacgccc	tgtctaagtt	gacgctttcc	atgccgcagg	cctggctgct	300
ggcgggactg	atgaaggcca	acggggtccct	cgtggtcctc	tgccagggtgc	ttatgctgccc	360
taactgcgtg	atccggctgg	taacaagatc	tgtcctcata	ccttcactcg	a	411

<210> 5337

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5337

acgctgacta	cgcagggcag	gactttttca	agcatcgggc	caaggctggg	aatggtttct	60
tgtccaggca	cctgcgaagg	cagtgcggca	ctggcgggga	aggacgcga	gagagataac	120
ccgacactta	acgctaaggc	gctcaacagc	tgggtttttt	tcttcacoga	tgtcgactct	180
cgatctctgg	aatga					195

<210> 5338

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5338

tgttatgaaa	gggagagatt	ttatcagatt	tcgttatcgg	aaaaatgcc	tggtaacgc	60
cgcgcaata	accttaaaag	taaatataat	gttatcaaaa	tgatgttgtt	tgggtggcgt	120
ggcaggggtg	attgtaaccc	cccttaatt	cgttgttgcc	tacagcccca	tagtattcag	180
gtgaagggtg	aagacgtgcg	acctcaaatt	ctttag			216

<210> 5339

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5339

gtcgtccccc	cctacgcccc	tgtgaaaacg	atcaagattc	aaccagcagc	cagcctcttc	60
ccgcagcaag	tgtgtatgcg	ttgtctcatg	cagctgcgcg	tggctataac	ggctcaggga	120
gaaatggaac	tgtccctgca	actgatggga	gccaaaacgc	agctcggggg	aaagaagaga	180
caaaccgttc	tccgtcggga	agatatacgg	cgtctgcac	tcttcacagc	gtaa	234

<210> 5340

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5340

acttctgaag	aagagaaaaa	gaaacaacaa	ctatcgactg	ccagtgacta	caacgaggcc	60
tgcaatctgt	tacgttccgg	ctacgtgaaa	cagtgtgcgc	ttggctggaa	tgtaggaagt	120
gatgagttct	ttcgaattgc	gtctgactgc	tgtgatacgc	gtgcataaac	aaagaagaga	180
ggggataatt	tcattatttc	gctgaaaagg	ttcccgaattc	ctctcaacaa	ttaa	234

<210> 5341

<211> 285

<212> DNA

<213> Enterobacter cloacae

<400> 5341

attaaacacg	tgttccgaaa	ggatgtgaca	atcatgggta	ctgcgggttt	aaacgttaaa	60
attgatgaag	cgctaaaaaa	aagacttcgc	cactatgcgg	aagacaataa	tgagaattta	120
agcgtgacca	cagagaaaac	gctgctgctg	gcatttgaag	cagtagaaga	ggcgggagta	180
tcggaaagag	atgttgataa	tcagcatcac	gaagaagaga	gcgtaacctc	atttactcct	240
aaagaaatca	aagcactacg	taaacttctg	aagaagagaa	aatga		285

<210> 5342
 <211> 216
 <212> DNA
 <213> Enterobacter cloacae

<400> 5342	
acagttaacga aacagttgat aaaggtcgct actggcggtg cgtttaagca tgtccacttc	60
cagtttgcgac aacatatcca tagagccaag cgggctaata tgtgtaatca agtgagctcc	120
ttatgggacg attatcgctt ttccctgttg attacaatag ccctggctta tgacgtttca	180
caacacttcg ggccgaatac cgcgcgcata ttgtga	216

<210> 5343
 <211> 261
 <212> DNA
 <213> Enterobacter cloacae

<400> 5343	
agtatcttcc accactttgg gcttatgccc caaaccacgt tccccacgcc cgtcaatggt	60
gtgttccctg acggtgagag aaccgggtcac tccctcatat acttttccgg tcaatataaa	120
acgggttctg cgcgtaccaaa aaccaaaccac aaatctctca ttctgattac cctacaggtg	180
ctgtacagaa tgaaccaggc gaaagctatg ttccaggagt gcaacaatga gtacatttaag	240
ccacggcgcg agcagcgctg a	261

<210> 5344
 <211> 243
 <212> DNA
 <213> Enterobacter cloacae

<400> 5344	
cgtttcacaa cacttcggcg ggaataccgc ccgcataattg tgaaaatatt tatcttactg	60
gcgcacaaag cgtccgggtg caggcacaaa atcgggtattg gtgcgccacg ggtgatatac	120
cagaccgcgc cgacgggtgt agcgggcgta aacgctcaac ttttcgggct ggcagaaaacg	180
ctggatgtgc ttgaagatgc gctccacgca ctgctcgttg aattcgttgt gatgacggaa	240
tga	243

<210> 5345
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5345	
ggtaatcaga atgagagatt tgtgttttgt ttgtgtacgg ccagaagcgg ttttatagt	60
acgggaaaag tatatgaagg agtgaccggt tctctcacgg tgcagggaaca caacattgac	120
ggcggtgggg aacgtggttt ggggcataag cccaaagtgg tggaagatac ttcacgggaat	180
tga	183

<210> 5346
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 5346	
tccactttgc ttcactctga agccttccgt cggcgctcac ctgacgtgtc cctggtaaga	60
aacgcacatca tccgtatggt cgtttctcgt gtgcggcatcc tgcgcacaca gatagaatcc	120
gctattctgc ttctgtttac aaccacactt gtgagcaatg taagccaggc gaaacggggg	180
atttcccttc agaaaaccac taacttattg aaagagaagt taatattaat ctga	234

<210> 5347
 <211> 210
 <212> DNA
 <213> Enterobacter cloacae

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<400> 5347
tgccccgaag cagaactgcc caggaacgtt aacccttcaa cccatttcac acgcgcttgc 60
atattcactc actccaacgt tgcatttttt atgacagatt acgtgtacgt tacattttctc 120
gcaacggaag gcgacctgcg tcatgctgaa gcgagacacc aggagacacg cggcgaaagc 180
tatgtctaaa cactctggat gctacagtaa 210

```

<210> 5348

<211> 243

<212> DNA

<213> Enterobacter cloacae

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<400> 5348
cagattacgt gtacgttaca ttctctgcaa cggaaggcga cctgcgtcat gctgaagcga 60
gacaccagga gacacgcggc gaaagctatg ctaaaacact ctggatgcta cagtaataca 120
ttgacgttac acatgtatgc agaggacatc aaactttact ggctgcgaaa cgttacgaca 180
gccgacttcc cagggtatggg taagaattcg attgcaaccc cagagtcgag atgcatctta 240
tga 243

```

<210> 5349

<211> 207

<212> DNA

<213> Enterobacter cloacae

```

<400> 5349
cgaaagatgg ctgtacgtaa acgctttatc gcggggcgcaa aatgcccatc ctgccaggcg 60
caagatacgc tggccatgtg gcgtgaaaat aatatcgata tcgttgatgt tgtaagtgc 120
ggtcaccaga tgcgtgagcg cgacaaagaa gccccgcgac atgttcgcaa agaagagcaa 180
gtgatcgcca tttttcatcc agactag 207

```

<210> 5350

<211> 264

<212> DNA

<213> Enterobacter cloacae

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<400> 5350
atTTTTtttc aggatcgcat catTTTTtta gccacagaaa tactcttctc tattagcgct 60
attctcgcca ttaaaaaaaa gaactcaacc gtaaaccttct ctgagttgag gccgataaac 120
ccactattcg ttctacgtgt cgttacatta aggaataaat atggcaagta ttctcactgt 180
gggagtcgga tcagggttgc agttaggcga cattctggac agtcgacccg ctgcacaaaa 240
agcacagctg acgccgatct ctaa 264

```

<210> 5351

<211> 222

<212> DNA

<213> Enterobacter cloacae

```

<400> 5351
atgaaaacagt cotcattaat aaacaccacg ccgggcttgt gggcgtcaca agcgctgcg 60
agttcttcaa cggtgtgtgc atcgttgatg tctctcttct taacctctct gcttgctaag 120
taccggttta accctagccg ggtgtatctg cataaatcca taatgatcgt tgacatggca 180
tacctctact caatgcgtaa cgataattca ccacctgcct ga 222

```

<210> 5352

<211> 465

<212> DNA

<213> Enterobacter cloacae

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<400> 5352
ggaaaatggc caatgaaaac gttaattctct cttactgcgc tctctcgact agcctctgct 60
tctgcctttg cagccactgc accagagtgc gtaaaagctg ataactagca gattgaagcg 120

```

ctcttcgata	aatggaatgc	atcgtccag	acaggcgatg	cccataaggt	ggcggataat	180
tacctgagcg	atgcgggtatt	gctgccgaca	atatcaaac	aggtcaggct	gacggataag	240
gaacgtgtgg	attacttcga	ggattttctg	aagaagaagc	cggttcggtaa	aattgcacgc	300
gcacacattc	gtctcggctg	taataaagcc	atgtataccg	ggacataatc	gtttactttc	360
gcggataaaa	caccggtaac	cgcacgtat	acctttacct	acgatcgga	cgaaaaagcg	420
tggaaaaatct	cacgcaccca	ctcttctgcg	atgccagaag	ggtaa		465

<210> 5353

<211> 795

<212> DNA

<213> Enterobacter cloacae

<400> 5353

aacgtcggtt	tggaacatc	agccataact	aatgcgggt	ccaacgagac	ttaccagct	60
gatgtgtgtc	taactgtagg	acagtttggg	ataggcgagg	attggttgcc	cctgactact	120
gatttttaaga	ctattgaaaa	aggctggcat	tatgctggcg	gtggcgctac	aggagttaat	180
ttcttttaacc	cgtaacggcc	tgttctcgtc	atgtgcagat	atgccacctc	cgcaatgcaa	240
gctctacagg	cgataaacac	tacccttgca	ttcaacgtga	aggatgcaaa	tggctggagg	300
gggtgggtta	agctttatag	cgaataacaat	acaattccgc	ccagcgacgc	aacgctcaag	360
gctgcactgc	cggtgatcaa	agtattttca	gatggaaact	accagactaa	cgatgaatct	420
gggggctgca	ctgtaacccc	tctggccaca	ggccaatatc	tgtgtggaag	gtgtcagggg	480
ctgaactcag	acgcagcatg	gggcggcacc	gatggaggtt	ttgacatccc	taccgatcgc	540
aacaagcaac	cgtttatctg	gctggattat	gagggttaac	ccgttggttc	ggtactggtg	600
aaaacctatc	accgtactca	ccctgatgag	cctgcattcg	ccagaaacac	actggaaggg	660
gtgggtgacg	gtgatcctgt	cgacattccc	cgtgaccagt	ttgtgtcggt	acgtgtcgaa	720
atgccagcgc	attctttata	caacccaaaa	atcagagcag	cagagctggc	catgactgct	780
gatcggggtg	ataaa					795

<210> 5354

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5354

tgcttggaag	actccagctc	ttttgctgcc	ccttattact	gggatgatcc	tcagctcacc	60
accggggccc	agaagctcaa	actctctgtg	tcgatatttg	cgacgatccc	ggaaaaaac	120
aaaatccagc	cccttgcgcc	gagcttctcg	cagataagca	tcaaaagcat	caatgggtgt	180
agatag						186

<210> 5355

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5355

cctgatcaac	aacgcggagc	aagcgcggga	aaagtctcaa	cccccgcgct	aaagtctctg	60
atgtcgtctg	cgctccggat	ggggcgccag	ctctcagagc	ttccgaccaa	tatgacggca	120
agcgagcttc	tgatgtggat	tgagtacaa	aggcaaaagc	cggttgggcg	tattcgcggt	180
gacatttcag	ccgccagat	cgtctctgcc	atctacggtt	ccgagggggc	aaaagtaccg	240
ctggacgatg	cgatcccgcg	ctgggggtgt	gaggagcaat	cagaaccgaa	tgacccggtt	300
gcagggtctg	aggtgcact	tactgcgcgc	acgcagtga			339

<210> 5356

<211> 351

<212> DNA

<213> Enterobacter cloacae

<400> 5356

tgctggggaa	ccaaaatgga	aattttacta	gtttcaattg	ttataggctt	aattccagcc	60
tttaattgct	aaagcaaaag	aagatcttct	tttgcatggt	gggtgtatgg	tgctctgcta	120
tttataattg	cttttgtaca	ttcttttgta	ataaagaagc	atgttcggcg	agaagaaaaa	180

gacttaattg	aaaacgatgg	tatgaagaag	tgccattctt	gtgcagagtt	aatcaaaagc	240
gaagctatta	aatgtaagca	ctgtggtagt	gatttagcag	tgcattcccc	accgggttaag	300
actgatgaag	aatacctcga	agaagccagg	caaaagggtct	ggaaaacata	a	351

<210> 5357

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 5357

ggtgggaagt	cttattgcgg	aagctgctgc	ctcactgtgg	tgaagagggt	gctcttcatt	60
gaagctcctg	gcgacaccga	taagcaaccg	gtattcacgc	tagacgaaga	agagcagggtg	120
cgtgaaattc	acggccccgt	ccattcaacc	ctgctcaaac	aggcgcttga	cctgatcaac	180
aacgggaagc	aagcgcgga	aaagttctca	ccccggcggt	aa		222

<210> 5358

<211> 447

<212> DNA

<213> Enterobacter cloacae

<400> 5358

caagaggatc	tactgaaaag	aatgatgaga	gatgtgtggg	ggcttaccgt	agttgaattt	60
attgtctatc	agcgaatct	tgagaatatt	tctgatacat	ggtcagatct	ctgggcaatg	120
ttgtatctga	gtcaggctaa	gcccggacag	cttcttgggg	caaaagtttg	tgatgtgagc	180
catgatattc	tgtttcttct	agccacaaaa	ggaactgaagg	aaagatgcac	tgtctcttaag	240
ccaggagttg	aaagaattct	ccactcccgc	aggggagaagt	atcctgaaga	tgtgtttttg	300
tttcagagcc	attcacatcg	taccaagaca	actccaagac	cggttaacgt	agttgcattt	360
aatgcggcac	tgaaaagggc	atctatttga	gtgaccgcaa	aaacagttag	tagtaaaagt	420
gctttatttt	taacgccact	aagatga				447

<210> 5359

<211> 393

<212> DNA

<213> Enterobacter cloacae

<400> 5359

gggttcagat	cgggagaatc	acgggaacat	ggtaacggga	ggcctcttac	ggagcctctt	60
ttttttcagg	aggactggat	ggcggaatat	ggaattcaga	catgggacgc	ctcaggcaag	120
gtaaaacaat	atggcggtta	gcctgtcagc	gttttggcgt	atctccagct	ggcccaagaac	180
cagaaaaacg	gctctttacac	cgtagcgctt	ccaccggggt	cgaggctgac	ctattttcag	240
agcatgaaag	gcgatcagtt	tggtagcaggt	cggaggaaga	tcaccatttc	ggggggaaca	300
gcaacagtgt	cagcagcagg	tgataccgac	tactcagcag	ggactgagcc	tgcgcggcg	360
gottatctca	ttttccagat	cgagagggca	taa			393

<210> 5360

<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 5360

atggcggaag	atggcggttt	actgacgacc	acgagcgggg	aagatgtggg	gaccgctaac	60
agctcgccaa	tgcctctaca	ggcgcgaaag	acagcgggac	ttcagggaac	atcggggttt	120
aataccaaag	tgacgcacac	attccccgca	ggtcagcctg	ttgtcgcggt	cgttcattgt	180
acgggttgag	tcaaaatcac	ccagacgata	agcggttaac	ccatcacgat	tgattttctc	240
agacccaatg	caaccggcac	agcgtacgtt	tattttttct	ctattttccc	gcagacaaa	300
ccagactacg	ggctggccgt	gtgggatgct	tcagggaacg	tgatttttaac	aaacgaaaac	360
cgcacgcctg	gcgatgttgt	caccctcggt	accccggggt	tgatgtccag	ctcagataac	420
aaactcaata	caactctggc	ggggaaagtg	gcctgtatgc	ctgccatgct	gggggttaatt	480
acccgggttg	tatccgcggg	cggtgcagcg	caaccctact	cgcccatatg	caacagcatg	540
gcaaaagctt	agggaaagcaa	taacgcggata	ttcgccagcg	cgcagacaa	ccccggcggc	600
aaactctcaga	acgttgcgta	ttcgaaatcg	aggaacgtga	ttatggccat	taactgcggc	660

aactatgatt ga

672

<210> 5361

<211> 1347

<212> DNA

<213> Enterobacter cloacae

<400> 5361

gcgcacaac	gttcaccagc	accacotgcc	actaaccocat	tcaattttga	acaaaccccg	60
ctccggcggg	gtttttttatt	gcctcgagaa	aatatgcctt	ataacacccg	caactatcgcc	120
attaaacgga	acacccgaac	cgccacccgc	actgcgtctg	ttctctttatt		180
cgtaacgcgt	gtaccgttat	tgcaatgacc	agccctgtgc	aggtatttca	gattaccacc	240
atcgccagcg	caacaagtct	caccgttaacg	ccagccgcta	acccagcagt	tcccgcgcga	300
acccgatttg	ccattctctct	gagtgacagt	ctgagcgtgg	atggctctggc	gcaggatatt	360
gctgaaacct	tcacgatgta	ccagcgctac	atgagccgggt	tcgctgatgt	aatgaacggg	420
acatctgatg	tcaccatcac	tatcaacggc	actgtcgtta	ccgtgccggg	tcaaaaatct	480
ctggcggaaga	aaggggctaa	cagcgacatt	accagccttt	ctgggctgaa	aacagctctc	540
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ggccctttga	aaattaccgc	agcatatcca	caaattactt	tatgtcgac	tgcccagcca	720
aacggcaact	acggccgggt	agttacattc	ggtagtgagg	gtaacaaaac	cttcatttgt	780
gcacggcaat	gggaaggcgg	aaataatact	tcgctgacct	atctgcccac	ttttaaaggac	840
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caggctcttc	ccattgcacg	aatcgttaag	tctcaggaag	agaacccggc	tacggatggt	960
gaaaaatgat	gattcacatg	gtgcggctgc	ggcacgggta	acgcgcaggc	agagggagta	1020
ttattttctc	gccttgacac	gggggtttac	gaactacccg	gttcggcagg	cctgcgcgtc	1080
gatggatggc	agttactgcc	gccaatggac	cctggcgcca	tgggcgagat	gggggtttgt	1140
gaagcggagc	aaactgaaag	cggcgggacta	attatccgcc	tgtataagca	gaaatacatg	1200
ctgagcgatg	gcggcgagat	cgltcaaaacg	aaaggagaac	caatggacgt	gccggtgagt	1260
agctggatcg	atgttccgct	ggatatgccg	acggattcag	ttttcaaacg	ttcacagcag	1320
cgctctgcaa	gtgatgaaga	gagttag				1347

<210> 5362

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5362

aaatcgagac	ataaattctga	caacaagggg	tgggtcaaaa	ttcaatgcaa	atccccgggtc	60
aaatttgggt	gcaaatcaac	agatatcgac	aacctctcgc	gcaaacgaag	catcgcggtc	120
ggaactgcaag	tgatcttgaa	gccacgggac	cgccccacc	cgacatggac	ctcgatgcgc	180
gaacggacgt	tagattccga	gttctag				207

<210> 5363

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5363

gccacgcagg	ttcgggtggc	agtcgagccg	cagcttgggc	cacccctgcg	ttcgcggcgc	60
atggcgccaa	gcctcgatca	gcgcggagct	gacaccccg	cccgcatgtg	tcgctcgcac	120
cgcgagcttg	tgcaatatg	cggcctcccc	cttgaggcgg	tcgggccaag	actcggggtc	180
ctcgcccgac	aaggtgcaac	agccgacgat	gcgctcgctg	caactcgcca	ctag	234

<210> 5364

<211> 324

<212> DNA

<213> Enterobacter cloacae

<400> 5364

cttgccaaag	ctgtctcgcg	ctgggtactg	cggttcaacc	accttgcttt	gcaaaatact	60
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gcgaaacggtg	ttccctggaca	ggccgcttgc	tccggtctatt	tcccgaaatcg	acgcaccatc	120
gcgaaaatgc	cagcgtcgaa	ttgcgtctcaa	tatcgccacg	tttatcaactc	cttgattttct	180
cccgccatat	ccagacggga	aacagtgctca	tacgtgggtc	aaattctcgac	gcaaatctttt	240
acccataagtt	gggggtcgga	caaaatcttg	gactacttta	ggagtagtgc	atgtattctgt	300
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<210> 5365

<211> 1161

<212> DNA

<213> Enterobacter cloacae

<400> 5365

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gaattttttgg	agaaaaattaa	aatgcagcca	catgacacat	ttaccggctc	ataccagccc	120
gggtgacgtgg	aattttctgct	aaagccggta	gtcatttgaga	tgacgcgggt	tgagcaaaaa	180
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gaaaaggga	tagttgtttac	agaaatgggg	ggaaccctcg	gccagtatcg	ggctgtgaacc	1140
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<210> 5366

<211> 1665

<212> DNA

<213> Enterobacter cloacae

<400> 5366

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tcgcaggagcc	catcccttcac	cgaagaaatt	atgcggcttta	aagagcggat	tgagagccctt	180
gcacaggggt	tatatcgccg	gggttagcgaa	gggtgataacg	acgcagagatt	tgccgcctcgt	240
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ccttcgggta	aagtcaggat	actgggaaat	cccgatagcg	gagaatacgc	aggacaaacc	1380
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gagacgggata	atgggctctg	cagtgcagaa	aaatggaccc	gtctcggtga	tgagctcaac	1560
cctgtcctta	cagacgcoag	tattgcgct	ggagggttag	ggcactggct	taacttttcc	1620
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<210> 5367

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5367

ttcgaaaaac	ggggcgctctg	tcgggaactg	ctgccgggca	ttcgctgag	ccgtggcgag	60
ccgtttttca	tggtctctctg	cttcaaaact	ccagtttgca	tactgttcgg	ccagggccgt	120
ccgttggtgc	tggtaccggt	gctgtcgaag	cgcttctcca	cgctccacat	caatcagctc	180
ctgctgcac	cggcgaagat	tttcggcgctg	gcgctcagct	ttagctga		228

<210> 5368

<211> 741

<212> DNA

<213> Enterobacter cloacae

<400> 5368

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ttcggtatcg	atcttctctga	tattgaatat	gaaatcagtc	agggtcgagc	cgggcgacgt	180
aaaaacaact	acagtgagtg	cattgaaagc	ctgatcattg	atgagaccag	ttcccgggaa	240
tggtatatac	atccattaat	goatgaaact	gaatctgaac	ctcttcagga	gtatcgggga	300
cgggagcctt	cgaggaagcg	gcctcttctt	cagcgccctg	ctgactgtaa	gatgaaattg	360
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gaacttgaat	atcttcatga	gattgtccgc	atcgctctat	acaatcaccg	gcttaacaat	660
gtcagttatt	cagatgttaa	aaaccatgac	acaggaaaag	agagcagcag	ggtagagcca	720
caaaactatt	cactcttata	a				741

<210> 5369

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 5369

acagcgagtt	tcagatcccg	attgtctctg	tcggcaatca	gggttttccac	ttttttcgct	60
gctgtcttcg	taaattccag	cggcaacgct	acgttcacac	tcattcttatg	ctcccatgaa	120
tactgcgact	gctattgggc	aaaaatcacc	caattctttt	tgctattatc	taataccctg	180
gtaattcatt	caagtattct	ctgtcagggc	ctgttcagct	tcctgttttcg	ccaaggtaag	240
ggcaagaatg	gtggagtata	g				261

<210> 5370

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5370

cgcgccatag	tcggttagca	ttgtctgtgc	agcctgtccg	ggcggttggg	gggtagggct	60
gaaggcgcg	aggtcaaggga	gggtttggga	caactgttgc	atgctccaccg	cgctccacca	120
tttaaccggt	attccacagc	aagagagctg	gtttaccctg	cgcttcggcat	taccgcgcgg	180
ccaggcgag	accagatcgg	gcttttag				207

<210> 5371
 <211> 972
 <212> DNA
 <213> Enterobacter cloacae

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<400> 5371
atatgcattt ctgcaggtat aatgaaaatt cggaaaaaga agaccggaca cttcatctta 60
tcggcccgaga caaaaagaga aaatgctatg gataatcaca tctcatccag ggcttttgcta 120
catcgaaagg atgtcattaa aaacaaaccc cgatttgggt aagctataac agaacaactac 180
agaattaatg atgtcatctta taaaaaccaa cctctgttct acaaaacgat gcttcaggaa 240
tcacgcttca acataaattt gtccatgtgt tgttttgttt ttggcaatca ggtcgagtca 300
gtttcagaga ttaaggcgct atgcaccctg tacaatatcg ccagccctaa cagtgtttatc 360
cgcatcatta ccatacttaa aactaccggg cgaataaaga cctggcgctg tagtgaagat 420
cgccgaaaaa caaaaattgc gccgacggaa aaaggactcg atgagcttaa acgctatatg 480
tccggggcgt ttacgcctgt cagcattctt tatccggcat tcaacattaa tgttaacctt 540
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aacgcgcatc tcaaatcgcg cgaggaggca ggttatctta aagatcgcg cgatggccgg 840
atgtcaattt atccggcctt tatcgagctt gtgcaaaaatt atgccggatt atattttgcc 900
tatgtcacac attacatcaa tgtggtacca aaagaacgac gccatgctgt caacatgaag 960
cctacactct ga                                     972

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<210> 5372
 <211> 510
 <212> DNA
 <213> Enterobacter cloacae

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<400> 5372
aaagaggagg ccaatatgcg aataatccta atgctgtgct gcttttttgt acaaagttaa 60
agctgggctg gcgaactgcc aaagcctgtg ggcaaaccca tcttaacctt taacggtaat 120
atagaaaaata cgaacgaaaa tggaaatgcc gtttttgata ttgcagcctt tgaaaaactg 180
ggcatgtgtg gtttccagag gacctctccc tggatataat gccgcacgaa gtttgagggt 240
atcccgatgc gcaaacatcat ggagtatgtg ggtgcaaaag gttctgtcct gaatgtgatt 300
gcactcaatg attacactac cgtcatccct ctccagcgact tccagaaata caacgccatc 360
ctggcctttaa aggtcaatgg cgaatatatg ccgatccggc ataaaaggtcc gtcattccatc 420
gtctacacct atgacagctc tccatgaact ccaatatcaga ttattactc gcgatcgcca 480
tggcaggtca gcaaatgaa gattgaatag                                     510

```

<210> 5373
 <211> 276
 <212> DNA
 <213> Enterobacter cloacae

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<400> 5373
ttaaacaggt tttccagtat gaatttatcc cgtcaggaac aacgtacctt acacgtcttc 60
gccaaagggt gcgctattgt gcaactccgc gatacctccg gccgcgtcac cgcgcttgaa 120
tgcataagcc gcgaaggact actgctggct gactgcaagc tgcgcgtttt caaaaagctc 180
aaaaacaaaa agctgatcaa atccgtttaa ggtcagccct accgcattaa cactacgggg 240
ctgaacaacg ttccgcgtca gctgataat cgttga                                     276

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<210> 5374
 <211> 336
 <212> DNA
 <213> Enterobacter cloacae

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<400> 5374
tcatcgatct cttcttcaac aaaaatcggc aacaccagat cgtttaaggt cagtgttgtc 60
ttctcaaca tggcgcgagc tgggggtgac ttgcgagcgc gacggggagc tgaattaaa 120
tcggctcatg tatgcctgat gtttgtggaa caaagggtta tagtgtacct gaaagcaggg 180

```

agcgggtgttt	tactaaagtt	gtctttttaga	ttttcgaaat	cgactaatat	acgctgcatg	240
tatttagctc	atattataaa	tcttattctg	atgttcagcg	tggcgtgtaa	tattggtgag	300
gcttctatat	tgggtttgga	ttataaatat	aatga			336

<210> 5375
 <211> 768
 <212> DNA
 <213> Enterobacter cloacae

<400> 5375						
cgaaaagcca	ataacatacc	acgatgccgc	gcgggtttcg	cgccctctcg	ccataatatt	60
ttgagggatg	ctgaaggggg	gcgcgtgaaa	ggaaaaggtc	tgtttattct	tattgttatt	120
gccgggatcg	tcacggtggg	ctaccgctgg	ttgccgtcgc	agtaacaacc	tttcgtgccg	180
cttacgcttg	acgatccgcc	cggaataata	accagtttta	aacttcggcg	tttaaccccc	240
caggcgctcg	aaagcctgtt	aacgcaggcg	aaaccaagtc	ggcttatccg	taccacggcg	300
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ccggtcagtc	tgaacagcag	ctttcttgcc	agttgcccg	tggcggttaag	tttcgcgctg	420
ttgttcagcc	agcaggcccg	gcgcgtccac	aaaaacttga	cggaagcgga	gcttgcgctg	480
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agcgacacatg	ccacggcgga	tgccgtggat	atcagcgctt	tcaggctggc	aaacggacag	600
cggtgttacgc	ttctaaacgg	ctggaaagcg	gaaaagacgc	agccctggct	acaggcgctg	660
ctctcggcaa	gctgtggtta	ttacggtaac	ggtctgggac	cggaactata	tggcccccac	720
gccaaocatt	tccatctggg	aatgcgcgga	tatggattat	gtcgatga		768

<210> 5376
 <211> 351
 <212> DNA
 <213> Enterobacter cloacae

<400> 5376						
ttatccagcg	ccggcgcgaa	tatatctctc	ttaacgggat	gccctgggac	tgggtgatga	60
atggtagatc	gtgaatctac	aacggcattt	atcaaagata	atcaaagttg	tgtggtgtca	120
ccactggagc	cacagggaac	gatcactgct	atccaaatca	acagtataaa	tagcgactct	180
cttcaacata	tttttgatga	caagcctgtt	tatgtaccga	aggggtgagt	ctctccctga	240
ttcggtatta	agtttacacc	tggagagcgg	tataactctg	cgatagcgt	caaatctgct	300
aaatcagggg	cgtatttagt	cactgctgaa	ttttcttacc	ccaaagaata	a	351

<210> 5377
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5377						
cgcccgacat	taactatggt	aaaggagagg	cttatgtttc	gttggggcat	tatatctctg	60
gttatccgct	taattgcgcg	cgcattgggc	tttggggac	tggcggttac	cgccgcatgg	120
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cgacgtcgcc	cgtag					195

<210> 5378
 <211> 213
 <212> DNA
 <213> Enterobacter cloacae

<400> 5378						
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aaacatatgt	ggatggctt	taacctgagt	caggatctgc	ccaacggcat	caagaacatt	120
tcgttcgccc	atacagcctt	caggagctg	gtttccaaag	tactgaatac	ccgttcgcta	180
atgctcgaag	tgaacgtg	agacggctcg	tga			213

<210> 5379
 <211> 189

<212> DNA
<213> *Enterobacter cloacae*

<400> 5379
atgaaacatc tgggtaaaca tttactgatg actttttcgc taatgggtac gctttttacg 60
cctgcctcat ggccgcgcga tgaagtgcctg ctcaccctca ccccggtgct gagtgaaccg 120
cagtttaatt acgtaggtga tacgggtgacg ctggaaaagca atttgatgtg ggaagtgttg 180
acgaagttaa 189

<210> 5380
<211> 207
<212> DNA
<213> *Enterobacter cloacae*

<400> 5380
gttaattctc atcatgcaaa aatcttacgt caccgtgagct gtcttctcgg caaacctgat 60
attcatcgca taagccggaa cttgctggctg aaatattctg gtattggcga attacagagt 120
gatatcccat ttttttaatt tgttatgttc ctgcacctta gtgagtttcc tttttcttcg 180
acagaatata ttttgtctac attataa 207

<210> 5381
<211> 534
<212> DNA
<213> *Enterobacter cloacae*

<400> 5381
aaggcagcca tcatgtctac tcgtcgtttt tccactacgc cacttgccgt agtgttggc- 60
ttaacgtttg caacggctcc gcccatggct aatcctggta acgggaatgg cgttggtcgc 120
ggaacacggtg gcggacaagg taatagcggc aatcatggta acgggaactc tggttaacct 180
ggtaataaag acaataacgg tcaggataac cctgggaaat cggataaagag ctttaaaaaa 240
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gccctgaatt acggcttaac gggtacgcac tctctgcctc cgggtattgc gaaaaacctg 360
gcgcgcggtg agccactgcc tccgggcatt gcgaagaaaa ccgtgccagc cgatatgctg 420
ggtcagcttc ctctctatcc gggtatgaa tggcgcgtgg taggttacga cctggctcta 480
attgcgctga gtacagcgat tgtgacttcc gttattaacg ggtcttttaa atag 534

<210> 5382
<211> 255
<212> DNA
<213> *Enterobacter cloacae*

<400> 5382
gccgtaattc agggccagat ggccggcatg atcgaagctt acgcgagcat ccacatcatt 60
accgacatct ttgctgtttt taaagctctt atccgatttc ccagggttat cctgaccggt 120
attgtgctta ttaccatggt taccagaggt cccgttacca tgattgccgc tattaccctg 180
tccgccacgc tttccgtgac caccgcatt cccgttacca ggattagcca tggccggagc 240
cgttgcaaac gtttaa 255

<210> 5383
<211> 207
<212> DNA
<213> *Enterobacter cloacae*

<400> 5383
ggaagtccag atttcgtgcg catcatgccg ctggcaaaaa caaagtcaat ccaccgatcc 60
aggcgtccgc caagttatgc gccctgtcga tttaaaaaac tcatcctgct aatgcaaacg 120
ctgctactga ttaataattc ctatctgttt ttatttattt ccgggaattt ttacaacgaa 180
acatcagtcg aaaaaattca tgaatga 207

<210> 5384
<211> 225

<212> DNA

<213> *Enterobacter cloacae*

<400> 5384

ctgaaatcacc	gcggttaaaaa	gcggtacaata	aagggtccac	gcaagtgggg	cctttttaac	60
aacctcgctt	catacgtctc	ttttgtccgc	tactataact	taatggataa	cagccaaaaa	120
agaactcgaca	tagcctttga	gctgtgcac	tacataggcc	cccgatggg	ccaaattcgg	180
agatatcacc	gcaatgtcaa	ttattggctg	tattcaactc	tttga		225

<210> 5385

<211> 195

<212> DNA

<213> *Enterobacter cloacae*

<400> 5385

gtcccgcaac	gagcgcaacc	ctttatcctt	gttgccagcg	gtcaggccgg	gaactcaaag	60
gagactgcca	gtgataaact	ggaggaaggt	ggggatgacg	tcaagtcatc	atggccctta	120
cgagttaggc	tacacacgtg	ctacaatggc	gcatacaaa	agaagcgacc	tcgcgagagc	180
aagcggacct	cataa					195

<210> 5386

<211> 198

<212> DNA

<213> *Enterobacter cloacae*

<400> 5386

ggcgtagct	cagttggtag	agcacccgtc	tccaaaacgg	ggtgtcgcga	gttcgagctc	60
ctccgcccc	gccatataga	atccttggct	tcggcaaaag	attttttttt	gctcgcaaaa	120
cagctcaaca	ccttccctga	gaataagcag	cctgcgtttc	cgcaggcttt	tgcgttaact	180
cagtatgctg	gtttttta					198

<210> 5387

<211> 192

<212> DNA

<213> *Enterobacter cloacae*

<400> 5387

ctccaccatc	ttttactgcg	aacacaagaa	aacttcagag	tgaacctgaa	aaggtgcact	60
gcgaagtttt	gctctttaaa	aatctggatc	aagctgaaaa	ttgaaacgac	acacagctca	120
tggtgtgtcg	agtctctcaa	attttcgcaa	tcagaagtga	aacatcttcg	ggtgtgtgag	180
ttaagcgact	aa					192

<210> 5388

<211> 363

<212> DNA

<213> *Enterobacter cloacae*

<400> 5388

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tcacggtaact	ggttcactat	cggtcagtoa	ggagtattta	gccttgagag	atgggtcccc	180
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ttcgtgtacg	ggactatcac	cctgtaccgt	cggactttcc	agacgcttcc	actaacacac	300
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<210> 5389

<211> 225

<212> DNA

<213> *Enterobacter cloacae*

<400> 5389
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 ggcctggcgc cagcgttcaa tctgagccat gatcaaaact ttcaatttaa aagtttgatg 180
 ctcaatgaat taaacttcgt aatgaattac ggtttcactc gttga 225

<210> 5390
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

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 attgtcgatg aactggttaag gctcggcagg cagaaggggg atggtgtcga agatgaggtc 180
 tttttaaag cggctgagtt agcgagaaaa ggggtataa 219

<210> 5391
 <211> 426
 <212> DNA
 <213> Enterobacter cloacae

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 gcggtcgttg tttcagcgcc ttgacgggc attaagggtga cgcagggcgc ggacacgctc 180
 acagagtacc gtttcaaac cggcagggcg cgcattttct tctgttcgat ttgcggtatt 240
 tacacgttcc accaacgacg ttccaatccc aatgaatatg gtgtgaatgt cgcctgtctg 300
 gaaaatgtca cgccttcga ctcccggaat gtggcggtaa tggatggagt aaatcaccc 360
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 cgatga 426

<210> 5392
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

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 tcaagcaca ccatacagat caatgcgcga agaaatcgct ccttttatcg tctctccgc 180
 cgtttgcttg cttag 195

<210> 5393
 <211> 1359
 <212> DNA
 <213> Enterobacter cloacae

<400> 5393
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 gcgcttcggt tcgcgcaaca acaggctatc gtcgattgtc tggccatccc ccaggctctac 180
 gacgcggcgc atcgcggtga ctggtactcc cgggttgagg gaaccgctc cagctgggaag 240
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 gtggagtcgc tgagtaaaaa atgccttcag tcacgcgaaa cggcgcgaga actgtttggc 360
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<210> 5394

<211> 2247

<212> DNA

<213> Enterobacter cloacae

<400> 5394

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<211> 3009

<212> DNA

<213> Enterobacter cloacae

<400> 5395
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 ctcaaatga 3009

<210> 5396
 <211> 1971
 <212> DNA
 <213> Enterobacter cloacae

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<210> 5397
 <211> 1236
 <212> DNA
 <213> *Enterobacter cloacae*

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 gaactgaatt ccgcgcgcgc ccacgtttctg gaactgatta gcgcctattt aacggagatt 180
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<210> 5398
 <211> 567
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5398
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 agggattcct ccgtggacga agccatcgt tatctcagc gcctcagcgg agagaccgc 480
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 gccattaaag aggtgcttgg gtggtga 567

<210> 5399
 <211> 195
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5399
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 gctatccag gggatctgaa caaaaaattg ggttaaatag ccagggtcag actgacgggt 120
 aatatctccg cccgattct ggatctgctg acgcgcgaag aacagcccaa cgccgcggtt 180
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<210> 5400
 <211> 249
 <212> DNA
 <213> *Enterobacter cloacae*

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 gataaaacag aggttaacaa tcaaacctggg attgctacgc ttatgacgcc actgcacaaa 180
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 ccgatatga 249

<210> 5401
 <211> 201
 <212> DNA
 <213> *Enterobacter cloacae*

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 ttcgaacga tagccgctg a 201

<210> 5402
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 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5402
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 tactgcctt taactattga gacgaatccg atcgactcaa aatcctggga tgcctactat 180
 taa 183

<210> 5403
 <211> 216
 <212> DNA
 <213> Enterobacter cloacae

<400> 5403
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 gctgtcttcc cagctcaggc acgggtcggg gattga 216

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 <212> DNA
 <213> Enterobacter cloacae

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 gataaggcct gcgtgacggt gccctacacc ggcacctggg atgtgctgat cgacagccac 240
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<210> 5405
 <211> 384
 <212> DNA
 <213> Enterobacter cloacae

<400> 5405
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<210> 5406
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

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 tga 183

<210> 5407
 <211> 228
 <212> DNA
 <213> Enterobacter cloacae

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<210> 5408

<211> 186
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5408
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 catta

<210> 5409
 <211> 336
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 5410
 <211> 429
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 5411
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 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 5412
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 tacattcagc aaatgtcggt ttatagttt cataacattt acaaaggatt taacatata 180
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<210> 5413
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 <213> *Enterobacter cloacae*

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<210> 5414
 <211> 249
 <212> DNA
 <213> *Enterobacter cloacae*

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 gagtgcattg acaaccgtaa agcggctcat gctgggtgg cctcaatgaa aacaacaacg 240
 cctgggtga 249

<210> 5415
 <211> 186
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5415
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<210> 5416
 <211> 1002
 <212> DNA
 <213> *Enterobacter cloacae*

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<210> 5417

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5417

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<210> 5418

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5418

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<210> 5419

<211> 1395

<212> DNA

<213> Enterobacter cloacae

<400> 5419

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<210> 5420

<211> 2637

<212> DNA

<213> *Enterobacter cloacae*

<400> 5420

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<211> 219

<212> DNA

<213> *Enterobacter cloacae*

<400> 5421

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<211> 204
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 <213> Enterobacter cloacae

<400> 5425
 aagtcccttc caacatcaat gacttttaaaa gttgagtc aa tcgtattttt ttgcaaaaaag 60
 tggttggacaa gtgcgaatga gaattgattt tattgctcig cattcaggaa gacctctac 120
 gggaacctga aagacgaca ttgctcaaat tgcttccagt attactttag cagcctttta 180
 gctggctttt tttttgtat gggttagactc agcaaccttc gaaaaaggac tgagccatga 240

<210> 5426
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

<400> 5426

ctcgcgtgcgg	tgcacgcgca	gccagttgtc	gcacatatca	atcatgtgtc	gaatcagcgc	60
gctggccacg	ccgcggttat	gccactctgc	gccaacgcct	ataccgaaat	cgccaacgtg	120
gctgcggcgt	ggctgcgtgg	cgacatcaat	ggtaggtgtg	cctaccacga	tatcatcaat	180
gcaggcaacc	agetgtttaa	tgcccggtcg	ttcgccctag			219

<210> 5427

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5427

aggcaccggc	aggcgctatg	cctgcgcgca	cggcgagtat	gtggatgcgt	attatatggc	60
gcgaatgaag	tagttgtgtg	ccgggtggcg	gcttcgcctt	acccggccta	cgcccggtgc	120
gtttgtagcc	cggtaaagcg	agcgccctcg	ggcaacaaaa	tcaatacccc	ggcggttaaa	180
catccaccga	acgcgggtcg	gacgcgcgca	acagcgcgcc	atccgggtcg	accataa	237

<210> 5428

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5428

ggatgccggc	agcagcgccg	gcaggaaaaa	aagggagggtc	agtttcatga	atcgggaactc	60
cgtcagactg	aatgcgccta	cagcgtgccc	gtgggttgctc	agaaaagccg	cattaaattc	120
tatatccgga	actacaaatt	aatcagatgg	gatgatttgc	taatgagtag	gttcgagagt	180
gtaatttatg	actga					195

<210> 5429

<211> 285

<212> DNA

<213> Enterobacter cloacae

<400> 5429

ttaaaaccgtc	ctcccggaat	gtcaacggtc	aaaatggaaa	acgtgatccg	taaaaataaa	60
agggcacccgt	ttccgggtgcc	ctgggggtcag	tgcccttaacc	tgccagtgcg	tcactctgtct	120
ccgggggaaaa	atcccgacgc	ggttttcacg	gagtgcatgc	gtctttacagg	tcagtttagtg	180
tgcaataaact	tctgtccagg	cctgtgtcgg	gtaaatcccg	ttatagttta	cottacagca	240
cgtggccagc	cggggcacct	atgcatcaaa	gcctgggaac	aatag		285

<210> 5430

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5430

gaaaactcaa	cgtaaaccag	agggaaaaatg	aaaatgatga	atactgttct	gaaggccacg	60
ttaatacactg	cactgattag	cgccctgtgt	cttgccgtcg	acggtactgg	caaaagtccag	120
ctttcagacc	tgcatctcgc	ctcagcagca	aatggtttgc	agcaaatgga	aggcacggga	180
acaaacgtgt	caggtggggc	tgtgaagact	gtaattgtca	aattcaactt	gcttcagaat	240
ggggcagtaa	taggaaatac	ggcagcagat	gctgaaaatc	tggaagccgg	tcagcaatgg	300
aagctacagg	cccccctacga	cagcataacc	acaaagccag	acagcttcaa	agtgacagaa	360
ctgacggtat	ttaataactg	a				381

<210> 5431

<211> 741

<212> DNA

<213> Enterobacter cloacae

<400> 5431

agagaggcgt	tagacatgtc	tgatggtaaa	acaaaggggc	gaacaaccgc	ttcacgagcg	60
ggggccctac	agtctctgtg	taatatccctg	ctccatacac	attatgcaat	ccgcttcttg	120

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gagggcaggaa aacgtgatgc tccggacgag acaggggtga aaaaaagag gcctgaaata 180
atcagatcgc cgaagccat tgcggagctt ggtaaatgctt cccgagact agcggcagat 240
aatccctatg ccgatatggc tctggtacgg ctccgaagaag cctcgcaacg agcaacactt 300
aaaaataatg aaaaactcag ttcaetggat gccatatgtt cagccgtacc caaaggggta 360
acgctctcgg aagttgaatc agccgatccg ttataatgtga gcgttttcag ccgttcacgc 420
ttaggatacc ggtgcgatg gcttctcggt ggatgatgc agtttagcaat gaaagctttc 480
caggcttttc attacggact gatttcgcgt tcgcaacgtg acgctatcct ggacaatggg 540
ggccatctgt ttcgctcagg ctatggcggt attcagcctt accgaaacat tgcagtgaat 600
cgccgtgata ttgcagaaaa aaccacgcaa gggctgtgtt ccatgtgagc aaatggcgaa 660
cctgatccgg atgtgttaag cggtaaaaaa cggttctcgt tctcacctcc gcttaaaaaa 720
accatagcag aggaggaatg a

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<210> 5432

<211> 549

<212> DNA

<213> Enterobacter cloacae

<400> 5432

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cccccgacgg gaaaccactc ccgtcagggc agatgggttc tccgtcgtac ctatttttac 60
ctccatggag aaaaacatcat gctcgcaaac aacactttct catctgcaaa atctgagtac 120
ttcaacctga ctatcaaaag catcgggtat ctccgaaca ttcgcaggtt taacctatcg 180
aatggtctgt tctcagctgc gctaatacat gcaactgagt gcccgactga taatccggcc 240
tacgtccgtt tgcgcatttc tgtcgcaggt aaagaggcaa ccagccttat cgcgccgtgc 300
cagaagaacg tcgatgaaga caagaaagtc ctgttgggct ttaacctgag taacctcgcc 360
acggacatat ttacgctgaa caaggcgac catgcggcgc aacagccgct cagttctgaa 420
gcccgcctga taaagtgga ctggatcaaa ataggccagg aaatgggtta caagactgaa 480
aaatctgact ccgtgcggcc gcagaaatggc tctgtcgcac aacaaaaacta cgcagaaaaa 540
tcattctga

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<210> 5433

<211> 699

<212> DNA

<213> Enterobacter cloacae

<400> 5433

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gggctgtttt atcaactgtac agggaaaaac cggatgaaac gtaacacctc tcacaacgta 60
ttttcaccag gcaggcttgc cactgttctt cccctgtcgc tccctgcggg ctgtgtttcc 120
cagccgcгаа agttgcagca acgtgcgcct gccgaccgca caccgcgcac caccgtcacc 180
gcgaacgttc agccggtctc tccggacgag tatgcgcgga cgcgggaagt ggtgcgctac 240
ctactgtttc tggctgtcag taccgatccg caggcgccgc agcgtgaccc tctctcgag 300
attattgata ttccgatccc gtcatccctg catctaccg ttggtggatgc cgtgcgttac 360
gccctgcgcc agtcgggtta ttccctgtgc gcgacccgct ccgccaacgg cgtgctttac 420
cgccaggcat tgcggcagct ccagttaccg ctgggcccga tgcgcctgcg tactgcctgc 480
caggctcctg ctggctccgc ctggcagctt gaggtggagt atgtacacgg tgtggtctgc 540
cacagctcgc gcgacggcta ccagttgcgc gtctcccagc ttccgcccgc ggtcagcacc 600
tggtcccgcc ctgcgcgcct agcgtgttca caaccggcca tcagcgcaac tcagtcctgc 660
cccgtaaaac ctgtcagcgg aggggtttctg agaaaatga

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<210> 5434

<211> 636

<212> DNA

<213> Enterobacter cloacae

<400> 5434

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atgggttaac gcagcgttct gaccggcgcg ctggcgctgg gcttactgat ggccgcgctc 60
cctgacggcc atcgtgacca gcggtgcgc gagggttacg tccggtggc catggcgcac 120
ggcgctcccc cggaagcgct ttctctggtt tcaactgagc agtctctcgc caaactcccc 180
cgcggtgcgc cggcatggcc ctggaccatc aatgtggcag gcaaaaggta tcgtctagag 240
acgctgtcgc aggcctggca ggcgctgcag gtctttatga agcgtcaacg gcttaagcgc 300
atcgatctgc gtattgccca gttcaatctg ggctggaaag gtcaatcttt ggcctcgagc 360
tgaggagcgt ttgacctta caccaaactg aacgcgcgc ccaccatttt gcgtgagtgc 420

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tgggcgcgct	agccagcgag	ctggetggat	ggcgccgggt	gatccacca	tcccgaggt	480
ggtaagccgt	ctgcacgtta	ccgcgccatt	gtgagaaggg	atctggcaaa	aatacgccct	540
acaccccgca	tttctgcgc	ggcagctgaa	ggccccggt	cgggtgctgc	gtccaccccc	600
gateccaggct	tcgtctggac	tgaacccggg	agataa			636

<210> 5435

<211> 411

<212> DNA

<213> Enterobacter cloacae

<400> 5435

acgttaagtc	aggagatgaa	ttccatgcac	cattctgagt	ctgttgtttg	ccgcctgcgc	60
cgttttcgca	gtcgtacgct	gaccgcggcc	ggtagcgttg	ccctccctgg	ctggctcacc	120
tgcaaacccg	cccttgcgga	cttgccaaag	gttgaagcgc	ctgagtcggg	aggcggaagc	180
gggctgtccg	gacaaatcaa	gggctacctg	caggacggca	ttgttatcgg	ggggctgggtc	240
gtggcgccgt	ttgcctttat	caacgtttgc	attgcgcgcc	tgacacacct	caccgaagtc	300
cgcaatgaga	aagccacctg	gaccaaattc	ggggccattg	tggtgtgtgg	tgtgtgtgctg	360
ctggttgcgc	ttatctggct	gtcgggcaag	tctgcgcaca	ttctgctgta	g	411

<210> 5436

<211> 369

<212> DNA

<213> Enterobacter cloacae

<400> 5436

gagcctgcga	cgatgcagac	cattcgtttt	ttacctgacc	gtctcaacag	tgagcccggtg	60
gtgtttgcgc	gattcaccac	ccatgagatg	ggcctggcag	cccttgccgg	cgcggtgtgcg	120
ggctctgtcc	tgctacgtcc	gtttatcccg	cttgcggcgt	gggttgttgt	tccacccggc	180
ctgctgttca	tgcgcgtgat	gtcgtctggg	ttcggcgggc	gctggatggc	caggctcaag	240
cggttgtaagc	ccgagaaactg	gcctctggcag	cgacccggaga	ctaaaaaacg	ccggctgtggg	300
atgggcaatc	cgaaactgat	tgtcgtatgc	cgggcgctggt	cagtgaaacg	taacaggaga	360
gcttcatga						369

<210> 5437

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 5437

atttcactgc	agcgaaactg	aggcgggcaaa	acgcgtgcgc	cagaactctg	acgcctctgcg	60
cggtctgcgc	gagaaacaac	aggagccctgc	cacggtatga	tgacactgaa	gtaccctgaa	120
cccgccatct	atgagcacag	tggcggtgcg	cttttccacc	gtctgcctca	ggggagccc	180
ggcgtgctcc	cgggcacaca	tcagcatctg	gtgaggctgc	ggcgcatgct	caggcagcgc	240
ctgacccggc	cggtcaaaat	gacgtgtcac	ccgcaccggg	tgggaactcag	cagcagcgtg	300
gccatctatc	ttgaggggaaa	gctgaagcag	ggcgtgaata	ttcttatcac	cgtagcggga	360
cagacgagct	ggccgcaggga	agaggagtat	gcgcactcgc	gctggtatct	cacggtgcgc	420
gattcggctg	acctgtgtta	cttgatgctg	tggattaacg	gccttgacgt	ataa	474

<210> 5438

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5438

cgagggttcc	ctatgaaaca	ctctccacaa	cgtaatgcag	ctattctcaa	tcttcatgcc	60
cgtactatgc	agataaacgg	cactgtcgat	gaaaagggtg	agcagttgctg	caaaatgttt	120
gctcagagtt	caacacgcaac	taaggatgac	aggaagcacc	gtggggatctg	agaaaaagta	180
tattacgaag	gctga					195

<210> 5439

<211> 489

<212> DNA

<213> *Enterobacter cloacae*

<400> 5439

tttgtagttc	cggtatataga	atttaacgcg	gctttttctga	gcaaccacgg	gcacgtgtgc	60
aggcgatttc	gtctgacgga	gtcccgatcc	atgaaactga	cctcccttgt	tttctctgac	120
gcgctgtcgc	cggtatcctt	actggccggc	acggtcgtct	tcactgacag	tcagcatctg	180
ccggcccaacc	tgccgcctga	cgtgccgggtg	gtgcttcttg	atggctctga	ccggctgcag	240
gccgacatgt	tgctgggaact	gcctgcagac	ccgcagcagg	ccgaagcaca	agtcaggcaa	300
gttatgacgt	ctcctgcctg	gcaacaaaaa	cagctgcaac	taaacgattc	ttatcgacag	360
gtggctccgg	ctggggagct	gggcatcaaa	aaagtgcacg	cagtgtgtatt	tgatgaccgc	420
gatgtgtgtg	acggcaccac	ggatgtggcc	gtggccactt	cctgcgtaa	ccggggaggt	480
ggtcagtg						489

<210> 5440

<211> 327

<212> DNA

<213> *Enterobacter cloacae*

<400> 5440

cgggatgatt	ctcatctcgg	actgtcgtgt	tttatccacg	acggcacaga	gcatttttcg	60
gacatggaag	tgatcgaagg	cgattttttc	taccgcgtta	ggcaggtgga	tacgggctgc	120
gctgatataa	cgctgattca	gtccatctga	cagggttttg	atggattcga	tctgacggtc	180
accacggctc	tagaggtaac	ccgcacggct	ttcaaccctg	cgatcattcc	tgagctccag	240
ggcctgtccc	tgtgtatcag	agataaccgt	gacgtactga	tgaccctttt	tgaaggcgac	300
ctcatcaaca	cagaggtgac	gtgctga				327

<210> 5441

<211> 570

<212> DNA

<213> *Enterobacter cloacae*

<400> 5441

cagaggagga	atgatatgat	tcgccctgtg	ttctctctca	cctcttttct	tttactgagc	60
ggatgcgcaa	caacggactg	ggctgcgatt	aataaacagg	tcagcgatcc	cgctgcgaac	120
ctgaaaaaaa	cgttaggcgg	caacgatagc	ggagaaaagt	gtgggatgcc	gctgatgagc	180
ccggcggggc	aacaggccat	gaagtccgtc	gataaaacgt	ttctccgtgc	ggctgatgtg	240
gatacccgcg	cgcccgccct	gaagcgccat	tacaaattta	ttctccacaca	ggagccttag	300
gcactcggcg	agggccacaa	tacgcgggac	tggaaaacgg	ctgctgaaga	tgaagcgcat	360
ccgctctcgg	acgccatgcc	gggcagctac	tacaaaaatg	gctccgactg	gaacggagct	420
gatcacctcg	atatcgaaat	cgagaaaaac	gggtccggca	gcaggctcta	tggtgtctat	480
cgttcatcat	catcacagcg	tctggccggg	tcggcgctca	cgaagctgat	gaatgatgtc	540
cgcgctgttg	cgccgggtga	aaaaacgtga				570

<210> 5442

<211> 270

<212> DNA

<213> *Enterobacter cloacae*

<400> 5442

tcgggtcagc	atttaaggat	aactgacatg	ctgtttatcc	tgaggatcaa	cggtttccgg	60
ttcttttttt	attctaata	aggttaaccg	ctcgaaacct	cacacattca	cgtaataaaa	120
gcaggatagt	aagccaaatt	ctggttaaac	ccatcagttg	tactggccag	taacgatggg	180
tttaattcac	gggtatttaa	agaactgacg	gggatcggtg	aagataacca	agcattgttt	240
ctggaggcct	ggaatgacta	tttcagctaa				270

<210> 5443

<211> 765

<212> DNA

<213> *Enterobacter cloacae*

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<400> 5443
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gatgtcagccg gacaggaaac aacacaaacgg ggggactccg ctacagcaaaa cctgcagcag 180
caggccgggac agtgggggact cagtaccgac gattatcagc gttatcagca gctgatgaag 240
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ggcacactgc cgtcaatat ggggaacgcc tcggcgctgg cgcacgacag tgggtggccgg 480
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cttcgcagctc gggcgccggg ccacacacatt cccgtggaaa aggtccgcaa gcgccagatc 660
acgcttaacc acgacggcgg acggtggatg cgctttggta accgctgatg gccggtttta 720
ctgcagcagg cgggagacgg taaatgggta atcgacgctg tctga 765

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<210> 5444
<211> 783
<212> DNA
<213> Enterobacter cloacae

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<400> 5444
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gtgggcgtgg tgctgtcttc gctgctgctg agcctgtctga ttgaataatc cggcacgcgc 180
ttctctggcg cggaaagccgg ggcggcgcac agtgaagcgg ttatgaatac agagctgggg 240
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cgctgggtga ccaactgccta tcaagtgggt tttgtggaca gtgttttct cgactgggtc 360
cggcagcagt atgcgcacca gatgcacagt gacaatgccg tcacccgaga aatcaaacgc 420
tggagcggct ggtgtgcggg ctacctgcgt gagtacctgc tggccacggt agtgaaacg 480
attatacccc tggtaacggc caccatccct gtgctgtccg tcccgctgtt tgtgctggtc 540
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tatgaaagt cgtttgtcta tcatcatgcc aagaagctgg tcaaacgcgc cgctgtggtg 660
cccgccatgc tgtaccttc ctggcccacg gcagctaccc caaactcgt gtgtgtcccg 720
gcgactgttc tgcgtgggat gcgcgtaacg gtgaaccactg cgtcgttcaa gaagtatctt 780
taa 783

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<210> 5445
<211> 264
<212> DNA
<213> Enterobacter cloacae

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<400> 5445
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ggctccggca gtctgtgatg gaacatccct catctgtctc gcacggggg attgctggcg 120
tttctttttt tatgggcgcg gtgggcgctg tcggatgtct ggaacggcgt gagtaaacac 180
aaagtgcggg acgcggccct ggggcgtttt gccgtccgca ccgtgctgct gttgcttgtg 240
tgtatctgga tgtttgccag ttaa
264

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<210> 5446
<211> 978
<212> DNA
<213> Enterobacter cloacae

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<400> 5446
accggagaag tcaggagtgt ttcagtgatg agtaaaaaac ccactaccgc cggcgggctg 60
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gatgagctgt tgaaatggga gcgtatttcg ctgcagatcc cctgaaggtt gggcgaggag 180
cgggtgtctc ttgtggacaa aaacgtccgc gtccgttttc ccgcagcgt taacggtaaa 240
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acgcgggtgc agctgcaggg tgtgaaagc gcgaggttc tgcgttttga tatccgcgcc 360
ggtgaaaaag ggccgactga gccggtgcgg ctggtctaca gcggtgatgt cagcagcgtt 420

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agtcacgccc	gcatgctggc	cggtcagcca	ggtggtgcag	atcggtctgc	tccggatcca	480
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tacagcgccc	ccatcccggt	gctgctgacc	cgctatgcgc	cgacagccct	ttatcgcgca	600
gcccgtacgg	tgcaggcggt	cccggttatt	catccggtca	atcctcatct	gcccgcagct	660
gtcagcacgc	tgatcccttc	tgaaccatta	acggtcacgc	cgctggcttg	ctggggcggtg	720
gcaaacccgt	gcgtggtggc	actcaggctc	acgaacacgc	gcagccgtaa	gggtgcttctg	780
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ccggccggca	cgctcgaggc	caccaccacg	gtgtatgtgg	tgaccgcggg	tgcgtccggag	900
agcgcatcca	ttgctgagcc	gtctgcattg	cgtaaaagcga	ccgcacgggt	aaaacaggag	960
gccgcccatg	cagatttaa					978

<210> 5447

<211> 2946

<212> DNA

<213> Enterobacter cloacae

<400> 5447

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gcctggcgag	cgtagcggag	ccctgtaatg	ctttcaactgt	ttacgcgtag	taaaatccacc	120
gacccgcaga	gcgcccgctga	tgatggccag	ctgtttcagg	cagatgaaac	ctgcacggcg	180
ctgctgaaag	gccggcaacc	ccctgaagcgc	cccgggaaaa	tgacgcgcca	ggatgaggag	240
aaggtttatt	atgccagtcg	gtccatcatt	gactttttgc	ctcgggcgga	atttctcgat	300
gaagagcagt	gtctcctgtc	ggatgacggc	gtgtcggttg	gggcggttta	tgatgtgaca	360
ccggtggcga	ccgaaggcgc	aaccgaagag	cgctcggagc	aaatccggga	ctcggttgag	420
gatgcacttc	aggacagctt	tgatgaacat	gacgtgaatc	ctcggtatcg	cgagttcttc	480
tgcaggatgt	aggacagacac	tgacgcgtac	ctggacaggg	tgccggcata	tgtcaaacca	540
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atgcgccgctg	tggcgatgct	caaccagggtg	tgcagccggg	tcgtttaatgc	ctggggcggg	780
cgggggatcc	gctgcaccgc	gcgaacggcg	ctgcaggtgc	atggctggct	gctgcggctg	840
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gacccgcggc	agacgcctga	aggcacccgtg	ccggtcagca	atgattttgc	cgaaaacctg	960
tggttcacgc	cgccggtctc	gcaccgggaa	aacggcggtg	ggtggattga	caacaagcca	1020
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<210> 5448

<211> 633

<212> DNA

<213> *Enterobacter cloacae*

<400> 5448

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<210> 5449

<211> 1557

<212> DNA

<213> *Enterobacter cloacae*

<400> 5449

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<210> 5450

<211> 786

<212> DNA

<213> Enterobacter cloacae

<400> 5450

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<210> 5451

<211> 540

<212> DNA

<213> Enterobacter cloacae

<400> 5451

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<210> 5452

<211> 537

<212> DNA

<213> Enterobacter cloacae

<400> 5452

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<210> 5453

<211> 405

<212> DNA

<213> Enterobacter cloacae

<400> 5453

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ctcaaacacca tccgcagcgg cattgaccgc tatctggagc cctcccgcgc gcaaccgcgt 360
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<210> 5454
<211> 672
<212> DNA
<213> Enterobacter cloacae

<400> 5454
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<210> 5455
<211> 702
<212> DNA
<213> Enterobacter cloacae

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<210> 5456
<211> 1008
<212> DNA
<213> Enterobacter cloacae

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<210> 5457
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 5457
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 aaaccgcctg ctataagtgc aactaacgaa caaaggacag ctaaaagcag cgggtatgtg 180
 cctaaccact tcggcagttt gtattgttta gccagtatga cgcagcgtg a 231

<210> 5458
 <211> 204
 <212> DNA
 <213> Enterobacter cloacae

<400> 5458
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 aataaattct ctaataatcat cgggttaatt tttttcaatg cgttacgact tgcctatcatt 120
 aaaaaagcat cttataactg tgcttatatg ggtcttcccc gatcatggtg ggagactcat 180
 aaccccatgt ttaacctgcc gtaa 204

<210> 5459
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5459
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 tataaaaagt atagggggtat gtgttatgcc atggataata agtccaatag tgatccaagt 180
 ttttaa 186

<210> 5460
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5460
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 gactggccct acaaacatca acggctccca ttgggagcgc tctttttaac aactactgca 180
 tag 183

<210> 5461
 <211> 450
 <212> DNA
 <213> Enterobacter cloacae

<400> 5461
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450

<210> 5462

<211> 789

<212> DNA

<213> Enterobacter cloacae

<400> 5462

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<210> 5463

<211> 642

<212> DNA

<213> Enterobacter cloacae

<400> 5463

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<210> 5464

<211> 768

<212> DNA

<213> Enterobacter cloacae

<400> 5464

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<213> Enterobacter cloacae						
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tacaagaagt	aaaattttcc	aacgctacaa	cccgcttcag	gtggcggaag	acgtgaagat	180
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gagctgttgc	acgaatactc	accagatgta	atgcaacttg	cccgtaag	ggtagcgag	300
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gcgtttctgt	tcttctttct	gcgcgggaa	agacgcacct	acagcgttga	gctggaatgt	300
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cgctcaacagg gtatcgacct ctctgttttg cgtcgcggtt acctgaaaaag tgttgctgaa 180
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<210> 5470

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5470

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ggggcactta ttgatgcaa tcagatacgc cttcacatac ccttagggg gtatatctat 180
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<210> 5471

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5471

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ctaattaaat cttttcagaa aattttgagc acaattgcag gttttaacgt gatcgagatc 180
acattatatt gcggggtgaa caatcggttg cgcggtaata attgtttcaa ttgtgtaaaa 240
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<210> 5472

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5472

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attcgcgagc tgtccagtcg tcgggtcaat attgatcgtg acaatgcgcc gcggaggcgt 180
tag 183

<210> 5473

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 5473

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tcctttggtta gttttgataa ctgggaggac cgtacaatcg caataacaat catattagga 180
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<210> 5474

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5474

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aatctcgccc aggcgatgaa aatcaaaagc gagaaagagc gcgacgacga gcggcttctt 180
aactactgga aggcgtgtaa tatgctggtt tga 213

<210> 5475
 <211> 450
 <212> DNA
 <213> Enterobacter cloacae

<400> 5475
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 tacgtccacg gctgcgcgaa ggtgctgcac ttcacggaag agctgacgcg cattgaagat 180
 ccgttcggct tcggtcccta cgcacgcctg atcccgcgga ttgtgcgcga ggtgatctgc 240
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 cagcgtaagg cagcggagag gttcgcattg 450

<210> 5476
 <211> 303
 <212> DNA
 <213> Enterobacter cloacae

<400> 5476
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 tga 303

<210> 5477
 <211> 303
 <212> DNA
 <213> Enterobacter cloacae

<400> 5477
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 attggcctgc tggggatgct ggcgggtgaa caggcgatgc gccatctttt atcccgcgat 240
 aatccgctg cctgacaggt gacggttccc cagcttcaac acccgacgcg agcgtcatca 300
 tga 303

<210> 5478
 <211> 360
 <212> DNA
 <213> Enterobacter cloacae

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 aatgcaaaaa ctgatttga tactgacatg cagcttgatg tcaactgaagc agaagatttg 180
 atggacgagt tttttaaaga atttaattgt gatagaggga attttaacat aaacacctac 240
 tatctgatg agccttttct atggaatcca ttcaaaaaat tccagtggt gatggttcca 300
 gatttcacta ttgcgaatgct tatcgaaacc gcaaaagcgg gcaaatgggt atacgactaa 360

<210> 5479
 <211> 462
 <212> DNA
 <213> Enterobacter cloacae

<400> 5479

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accgcggcag	gacttttttt	tatgatctac	tgtgaatcaa	ttgcgatca	ttttggtatt	120
gacgatgtgg	caggaattgc	tcggttatac	agtgggtcta	ataatcaaac	gactagaaag	180
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aaacaggcga	aattttccta	tggcattaa	ctgcctacct	gggttggtgg	gtacactccg	300
tggacagtaa	agtgtcgaat	ggtatcgaaa	gtgagtgctg	ttgttggcag	gacaatacgt	360
ttaataggca	tagtgatatt	agtgcgtgat	gtatcactaa	tcacctatgc	tgcataacgt	420
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<210> 5480

<211> 318

<212> DNA

<213> Enterobacter cloacae

<400> 5480

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gacgtgcatt	ccccggcgcc	gcggctcgtc	gcgctgcttg	gcctgttcgg	catgctgggt	180
ggtgaacagc	tgatccccat	cggacggcgt	ctggtgagcc	gcgaaccgct	gaccctggcc	240
tggtttcgtc	atgaatcggt	accgaagatc	agtggtaacc	cgccccagc	gcccgcgaa	300
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<210> 5481

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 5481

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cacactcgag	ttgtgccag	ctgcggaaac	cacgtcgggg	ttgtggacca	tottgatggt	180
gagcgtatca	agcttgcgaa	gagcgatccg	gaatcggcgc	gcaagacca	ttttattcct	240
ctcggctggg	ttgataaagt	cgaagataat	aaagtgtgcc	tgacaaaaaa	ccataaagag	300
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<210> 5482

<211> 645

<212> DNA

<213> Enterobacter cloacae

<400> 5482

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gaaacattaa	aagaacagct	aaaagatcgg	ttcggcgctt	ctgtggcgct	ccatattgaca	180
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acaccgcgaa	taacctcttt	gctggggctg	ggatttttct	ttctgaacat	tatgtggatg	540
aattcatcga	ttttttaccg	ctccattgcg	ctaacgctac	ataatcgggt	ctggcgtaag	600
cagctcaaaa	tcgaggcaag	gccaatgtca	cacctcaaac	gttga		645

<210> 5483

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5483

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ttttcggatt ttctttatat tgacaaaata gatcaccgga ccattttattg cgatatttcc 180
taa 183

<210> 5484
<211> 1059
<212> DNA
<213> Enterobacter cloacae

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acaatcaaca tttoacaacg acggagagat gaagtgcacat tcacaggaca attttcaaa 120
gatcttccag attacgcact cgcacgcagt ctgtgtctctg cctctggcgg cgtatataat 180
ttcacagcac ttgcagggtca actggactgt agcagaaatt tttagccaggc cgggattatc 240
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ggtttaattc agtctttttc atttacagga aattattga 1059

<210> 5485
<211> 225
<212> DNA
<213> Enterobacter cloacae

<400> 5485
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tctgttttta taattgagct cgtatcattt taactttaaca tatcaggggg cctacggct 120
gtaatgagtg catctgtgtt atcacaagat ttgtctggcg ctcaaatattt aaaagctcgt 180
aatcggacaa tcggcagttc tcaccaacgg cgggaaggtc agatt 225

<210> 5486
<211> 186
<212> DNA
<213> Enterobacter cloacae

<400> 5486
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tggggatatt cgcccgccc tgagaataag cgagataact ataacgctat tgattaccc 120
gggcaatgca taagcttcaa acaattttgt ttaaccgcgg gcatgacacg ctacaatagg 180
cactaa 186

<210> 5487
<211> 273
<212> DNA
<213> Enterobacter cloacae

<400> 5487
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aacgcgtggg attcttcgg ccatatgcc caaaaattta agcgacttat aaacgaaaac 120
aagccgcgca ttcttcggg aagcacggcc ttacgactac aactctgtct gtcgaattgag 180
ggctgtggcc ctcaacagat tagtacagac gagtaaggcg tgcgttttcg cgagccagtt 240
tcttcgcgtg acgtttcaca cgggaagctt tag 273

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<210> 5488
 <211> 363
 <212> DNA
 <213> Enterobacter cloacae

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 tatttaacca gcgattacgg acgtgtcgaa tgtaaatgca cccaggtaaq tgaagatcgc 180
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 cccgagcagg caccgttatgg ggtctctcgt gcgtttttatc tcgaagcgat taatgatgat 300
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 taa 363

<210> 5489
 <211> 312
 <212> DNA
 <213> Enterobacter cloacae

<400> 5489
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 ctgattgatg gtttcatttt cctgcccgac aaatgcttat gcttttttgt tgggttatta 180
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 tcagtaccag aaattaatgat ctctcgcgag ggctattttt tctgttacct tgaagtggtt 300
 acaaaatttt aa 312

<210> 5490
 <211> 660
 <212> DNA
 <213> Enterobacter cloacae

<400> 5490
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 gccacgctgg ctcgcatcat gcgcctaaag agcggcaagg ataattgtgag gaacacatga 660

<210> 5491
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 5491
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 atcgctttta agaatagctt taagcgcggt ttattgcgac cacaattttt gacactctat 180
 tttctcaaat ttaaaagctg gaataattac tctatgaaat tatccctacg atga 234

<210> 5492
 <211> 231
 <212> DNA
 <213> Enterobacter cloacae

<400> 5492
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 ctcacaccac tgctcctgtg acatctcatt cgggtagtag gtccggcagt tatccatctc 180
 ttccagcagc gctcgtggg aggtgttgcc cataaagata tgggaagtgtg a 231

<210> 5493

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5493
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 cagacgcgag gcgcactgct gtccgacaac atggcggaat gctcgtcct caaccggcgg 120
 aagctgacgc gcatcgatct caccgctggc aaattgcaga cgggcctgtt taacagagtc 180
 cggcggtaa 189

<210> 5494

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 5494
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 atgtctaaac gtccataaaa gatgtcctac cggctcgccg ccgacaaaac agaaaaattc 180
 atctgtgttg aaataaattc atgttcacag ggcggcgcat ga 222

<210> 5495

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5495
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 gacgctcaga cgaacgagaa aatgccccac ggcttctctg ggctcagcag ccggaaattc 180
 agtaacatag ctcatgaatc ttctcatttt gtggtgtttg tgttaacact actctatccc 240
 ttaattcaga acatgaatgc gtccgcctat gccagaaaac agcaaaaaga tgacaaaact 300
 aagacatccc tcgcgcgcgc cggctcgtgtt gccatatga 339

<210> 5496

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 5496
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 ttctatatgt ctgatgtgta ttatttaagg agtacaaaag cgcacagtct ttattcagac 180
 tatttgcatc attacgcaaa attcaaaatt attgtttttt gggttctgtc tccgcgaaca 240
 catcaataa 249

<210> 5497

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5497
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gttgaaaaaa	tgccgagcgt	aagtgtagcc	ggggcaaatc	ttattatgtt	attcatcaac	120
tcatttccat	ttgttaaaaa	tgcgatgacg	aatattaatg	atagtcatto	tcattacaat	180
aaagtgcacg	caatctccat	aaaatcttca	tga			213

<210> 5498

<211> 252

<212> DNA

<213> Enterobacter cloacae

<400> 5498

agcctggctg	gcggtcttct	ttggctctgc	ccgtgtcttg	atggtgtgtg	ctctctcttg	60
ctggaattac	tggggttgat	tatggtcatg	acggtgcgta	cagaagcgag	aaaagagatg	120
tgtcagcttc	gtgacaatgc	tcacaaagcc	cgtaaggcgc	cagcaaccag	cgtgccagct	180
tctctggaac	tgacgccaca	gcagcaggcc	tttatltgat	tgttcgcgga	agacgaaccc	240
aaaaacaat	aa					252

<210> 5499

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 5499

ctcctgatcc	atgatattgc	ctctgtaatt	attgtgtgtg	caaaagaagc	ataccctcag	60
ccgatccgcc	tgaccacgtc	aaaaacgagg	tttgccaccc	ctcttttcaa	caagcttatt	120
cgccagacac	ttgaattat	tcgaataaca	gaagcaccgc	ttgcgacgat	atatttttgc	180
gttgtgtcaa	ctcttgtaat	aattcacgcc	acgttcacat	taggattatt	agctaagoga	240
actccaaca	tcagatttta	tttctcccta	accagtgtag	ttaccgtccg	tttttaa	297

<210> 5500

<211> 426

<212> DNA

<213> Enterobacter cloacae

<400> 5500

gtccagttat	ttccccggag	tgattcgatg	aagagcctgc	cgctcttttt	cgctgtatta	60
accctcagca	cattaacagc	ctgtagtctt	ccccaacccg	acaatgttga	aaaaattaat	120
catctgcata	ttccactggg	gttgccgggg	gaaaaatcgc	cgcaggtaca	gatatcgcat	180
atcgcgcttc	tttatcagga	aaataaacag	cagatcgaga	ccctaaccgc	cagcgtaaaa	240
tcacagatgc	tcacagacac	caccgcacaa	gaaatttttg	ttgcggacag	cgcggttcaa	300
cgcgctctatg	ctccgctgac	caagctggaa	cagctagata	tggttaacca	gcaataacctg	360
aaagataata	atgtcacagg	cctgcacaaat	attcatatcg	ttcttgaacc	attattcacc	420
agctga						426

<210> 5501

<211> 843

<212> DNA

<213> Enterobacter cloacae

<400> 5501

aatgaccaga	cacatttttg	gaaggagctc	ttaatggata	ttgcgttgct	taacaggggc	60
tggaacagaa	catggtcaga	taccatgggtg	aatctagagg	cccgaaacct	cgtcgaaaca	120
gcaaacccgc	tgtcagcatt	ctatttgcac	gatggtctta	cacgtatcaa	gtttgtcgaa	180
gagataaaa	aggttgcaga	taaaagaattt	gaacacagcc	gacgagctaa	aaccgatgaa	240
gaatcgcttg	catgcataca	aaatctgcgt	gctgaaacag	ataacttaca	cgaacaagaa	300
cgctctgtaa	gaaccagagc	cgcacagctt	tacgcgaagg	tcgagttttg	taagggaaat	360
aaataaatcg	tcggttatgt	tatatccgcc	gtaaacctgg	tgtcatcagg	cgtggttctc	420
tttggtggct	ttatgatgtt	atccactatg	gggcccagtg	gtatgctggc	tggggcagtc	480
ctgattggcg	atgggaatgaa	cggattaacg	aaagaagtgc	tcaactttga	tcagccagaa	540
ggacataaac	ccctgcgaag	tatcattgct	gactccgcga	tgcatacggc	ccagttccatg	600
ggatttaate	ctaacacggg	cttgcctctc	tataatgggtg	ttactctcgg	tgccagtggtg	660
tacagcattg	taggactcgc	tcgaaaaact	ggagcctgga	gattatttgc	ctgcttccaa	720

cacgattact	atcgcaaaagt	cagcacaatg	agcactccta	agctaacaat	gaagattgtc	780
ggttatgttg	ttaaagcaaa	agtgattttc	gatctattga	caaccgaaaa	tggaaccagt	840
taa						843

<210> 5502

<211> 372

<212> DNA

<213> Enterobacter cloacae

<400> 5502

ttgcttgcaac	aatcagcgat	tggaataaca	cttctgggag	ataagggagc	agacgatatg	60
aaagtgaactg	atgaggtctt	gttacgttca	gggtttacgc	agcccgaaat	gcagaagata	120
aaaagcaaca	ttgaaaaata	tgagggaacg	cttggagagg	ccataaatga	cctcgctagg	180
cgattttgta	ccttggcggg	agtgggtggc	gtgtgtgcct	taatcctact	gctacttacc	240
gtcttcagct	cacctgatag	agcagttgca	tgggggctgg	cgatgatctt	tggggttgcc	300
attatgtcct	tcgcgcagcc	gcggtaatt	tcctataaat	cctggcgcta	ccgaaaaact	360
atcaaggatt	aa					372

<210> 5503

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5503

gttgacacatt	tcctgtacc	tgataacct	gagattaatc	ctaataactc	aaggggtgag	60
atggctaccg	ggaagagaaa	gaaccaaaag	gaatcacctg	aagaagagt	agatcgcttg	120
ctggatgagc	ttgaactcac	agaggagcaa	cgggagtta	tcgaatccat	gcggggagat	180
aaggcgatc	ccagtagtga	gtaa				204

<210> 5504

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5504

tcctgaaagg	agacgatggt	cagcttcggc	gatgcgcgc	cggttcgcgg	gctgttgggg	60
tcgttaaaaca	acagtttttc	cagctggtcg	ctggaagcgt	catctgacgg	tgccgcgaaa	120
ccgaacgttg	ataacgacag	cagaagtaag	gctattaagg	ctctcatggt	attttccttt	180
tgcatcgga	aggggtgcta	gcaccgcttc	gcggcttaa			219

<210> 5505

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 5505

gtcttaaaag	catctttaca	gagaaatcaa	aaatttcggc	aattaagcga	aacgggtgac	60
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acgttttgagt	acgcattttc	tcaggtgggt	tttattgtgc	tgtagctat	tatcgtggcg	180
gcaattgcg	ggctgttttc	aagcgggtgt	gtcagcgcag	tggaagaaac	aaacgatgca	240
aaatccctgg	ctctgageta	tgagcgtctc	ggtcgcgcgc	agaccgaatc	gcggatggcg	300
ctgacgtttc	cggtgacgtc	tgaggggaaa	tataccctca	gcctgaccag	cgaaagcagc	360
gacgcgatg	agcccggcag	cgcttgggca	caaccggaca	gcattgtacg	ccgggggaat	420
acctgttttc	tcgtctacga	tcgtttacaa	cagaccgata	aattttccgt	tctattatc	480
atcacgcgt	caaaagcag	gaagtggaca	aacagcatcc	gcgtaaacaa	cgagccagat	540
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<210> 5506

<211> 366

<212> DNA

<213> Enterobacter cloacae

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<400> 5506
aaactaccac cagaaacgcc aacttcgggt ggcagactga accgggttgg cgtaccgacc 60
atatggaaaa tcggcgcttc aaaagaagcc ccggttcagt ccaccataat agaagatacg 120
gattataccg cagctaaaaa aagagtgaac gaaaccaatg atgttgcggt agcaacatct 180
ttccatatgt gtgtaatacg gacgccaatc ccgacacctg attttgcagg tgcgcccgca 240
ttttattact gtgaatttat ccagcaactg acttcgaaag aatctggaaa cgccctcgca 300
aaattcctct gcggtctgtt gccctcacc ccaacctctc ccacggggag agggagaaaa 360
cactaa

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<210> 5507

<211> 633

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (80)

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<400> 5507
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ctttgcgcga tgctggttgt cggcctgtat atgcacgtct actggaacct gcgccaccgc 180
gcacctgaac cgatcaacgc cagcggttgc aaaccggaaa cgcagctttc ggaaatgcac 240
taactgttac tgagttaacc gtccccgat ccgcagccta aagttgcgcc agtgcatgtt 300
gatgttccac cgatgcagga tctcccgatc agcagtgatg atgcgcactg gcacgaggcg 360
cccgaggggc cggtcgcgca cgataccctg cgggataact taccoggaac cgaggcgcat 420
gagcacgata tcgccccgcg cagcacgagc agtgaagagt catcattaac ggaattattt 480
aagcaggcat taaaagagca ggagcaggat tatttccaag gaaaaattcc cgcgcgcgcg 540
gttgacgaaa cgcaggataa ttacaagcg agtgtaaaaa acagtggaaa tagcctttct 600
cttttgatg agaaaggaga acggcgggag tag
633

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<210> 5508

<211> 186

<212> DNA

<213> Enterobacter cloacae

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<400> 5508
cgtcctcagg ttatctctgt cgtctccctt ttacgaatgc gctttccggt cgggtgtacc 60
gtgaaccttg ggcaatacgc tgagactggt ttgctgcggt ttaaacgcgc aattctttac 120
ttaattgagg aatttcggca ttaacttgcc ggttcaaaac ttggtagtga taccocagag 180
gattag
186

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<210> 5509

<211> 477

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (187)

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<400> 5509
ttttcagctt ttaatatgga aattatgaat atggaaaaac agtctatctc ccagctctat 60
agcgaactct cctctcaacc cgatctccca acccttgccg agcgctgcaa actgctcacc 120
gaaatctccc tcgactgcaa atcaacttccg caaacgcagc cgttttgccg ttgcttcgga 180
gcttcaentg aagaggtgaa atccggcttc acagagtcaa tgcgtgattt tcaggttggtt 240
gaatttgagg acagcgcgga gcaaccgcga caaaaagagt ggttgctgga agataccgaa 300
acgaatagcg actactcccg gccgttaaac catgtgctgc tggttatcgca tgttgaccgc 360
gatatgctgc cgcacctgac gggactgctg catgacatca ccacgcgat ggtcgaagat 420
ttaatcgtac ccatgaaccg gtgcagtact atacatctgc cgacacagcc actactaa 477

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<210> 5510
 <211> 183
 <212> DNA
 <213> *Enterobacter cloacae*

 <400> 5510
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 aagtaagtatt ttaattcaca aaaaagcgg ataaccatc aggttaccg ctccatgaat 120
 accgctttat gcatttgcgt ggtaaatcc tgcgtcaca cgctaaccgc ttacgtctga 180
 taa 183

 <210> 5511
 <211> 192
 <212> DNA
 <213> *Enterobacter cloacae*

 <400> 5511
 tcacacctgt taaagtata ttttagata atgtttaagg ttatgcctgt gccacagcag 60
 agaaaagtg cctctcttacc taagtggagg gtatttgatt tagcgcaat ttggcggcag 120
 gttcactacc gcaaaagcag tatcaggctg agaagaacgc catcagaatg ggtaccagca 180
 ggctcagaat aa 192

 <210> 5512
 <211> 2325
 <212> DNA
 <213> *Enterobacter cloacae*

 <400> 5512
 ctgatgcaga acgcacgcgc ttgcccgcac cgtaacgcgc tgcgcgccgc gctgctgtgg 60
 gccgcgggat gccctgaccc gctggggcgt ctgctgtcgc tgcgtgcctg ccgcggcgctg 120
 aacagcagcg tgcctgccat gctgcgcgaa cagacgctgc ggcgcgatcc tccgcctctc 180
 aacgaacgat ttatgcagcg cctgcacgcg cagctcatct ggctggctcag ccccgccaaa 240
 cagcaccgca atggcctggt cgatccgcgc acccgcgccc gctgcacaaa ccgcgggtgaa 300
 cgcgcaggctc agtggatcct gtcccagctc tactccgcct ttcccgcgct gagcggcag 480
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actcaggcca	tacgacgctt	tggcattgtg	ctggtgagcg	gtatcttcac	cgcttccctg	2280
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<210> 5513

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 5513

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tggaaaacag	gtcggctatt	ttcttctcgt	tcaggtaaaa	acggctgtag	tttacgcccc	180
gctatcgcca	atgcaaacca	ggttaacgat	tgctgaaaa	ttagccattg	caagtgctcg	240
tcaaaagcgt	atcatgcggc	gggtttattg	ggttccctca	cccaaaatat	taatcaaaaa	300
ggtacaatat	ga					312

<210> 5514

<211> 375

<212> DNA

<213> Enterobacter cloacae

<400> 5514

ctgcgcagct	acaggagtgt	tttcatgaag	atccctgaaa	tcggcgccct	ccagcccgat	60
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<210> 5515

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5515

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ttttgttagtt	atctggcggt	acgtgacagt	gttggtcaga	tacttccacc	tcttcagagt	180
taa						183

<210> 5516

<211> 723

<212> DNA

<213> Enterobacter cloacae

<400> 5516

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gacgaatggc	aggcatggtc	acgcgggtct	gacgccatcg	atcccgctgc	accgctggcg	120
aaactgacgc	atctgcccgt	gatgaccgcc	cgcccgctga	attcaggcag	caggctggcg	180
gtcgatcttg	gctgatgat	gtgcgcgaaa	cacgcgcatg	atgccgtcgt	ctacagcagc	240
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gtttccccca	ccgattttgc	catgtccgta	cacaactcgg	cggttgcgca	tctcactate	360
ggcgcgcgct	agcctgtgtg	ctcttcgtcg	gtttccgcgc	gtatggatag	cttccagcag	420
agcttgcgtg	acgtgtgcag	ctctgctgat	ggcggtatgc	cccgcgattg	gctgggtgat	480
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ccctacgcgc tggcgctggt gattgaagcc ggaaatcacg tcagctgtga aacgcacgtc 600
aacccgcagc ctgaagagcc cgcgctgccg caaagcctcc agttcctgcg ccattacgtc 660
cgggacgagc gccagttcac cctgccgggc gagcgctgc tgtggcaatg gacgcgcaa 720
tga 723

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<210> 5517

<211> 819

<212> DNA

<213> Enterobacter cloacae

<400> 5517

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cagaacaaca aacgatttat caggaagtct ctgcgcttct tattacgctg tttgaaatcg 60
ccccggagga tattaccctt gaggcaagc tttacgagga tctggacctc gacagcattg 120
atgcgcgtcga tatggtgggt cacctgcaaa agaaaaacgg ccataaaatc aagcctgaaa 180
ccttcaaaagc ggtgcgcagc gtgcagagac tctgtggact tgtggaacag cttcagcgcg 240
acgcgttaac tgcgttcgat tccgcttctt cccgcctcga cggggctgat gctgctggca 300
tggcgctttt tgatcgctgt cgggctggcg aataatagcc tgcacgggat actgcccgtg 360
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tatctgttgc taagcgtggc gctggcgccg atagcgcttt gcgcggcgag ctacgtctcg 480
cacgcgcaccc agtgggtgct gttatatccc gtggtgggtga atctggtgat gctggtgggt 540
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ttttttatta tcaacggggc gatcgcgctg tttactgtat tacatgcgca tatccgtctg 720
tggacactgt ggaacgggat gattgcctat ctctgatgag gcacgctgat ggctggcgag 780
tggctggtgc gacaacgggt gaagaaaaac gatgcttaa 819

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<210> 5518

<211> 759

<212> DNA

<213> Enterobacter cloacae

<400> 5518

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ggccattctg ttcaaacgca tggggatcgc gccatgaaat ggataacgct actcgcgctg 180
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aagattttct ccaaccttga ttgaagggc gcgatctatc tggaatccat tgcgctgaac 660
gataagcagc gcgacacgac ggatatcgcc ctctcccgcc accaaactgac gcccgcccg 720
ctgactgatg caaacgcgca gcgctttgcc gacccgtaa 759

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<210> 5519

<211> 594

<212> DNA

<213> Enterobacter cloacae

<400> 5519

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caaaagaaac ttaccatgac ccgtttcatt cgcctggcgg cagtgatgat ggccctgttg 60
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cccggcaccg gcgtcaagct acccccgcgc ggcctcacgc ctgccatccg cgcgcagcag 180
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ggcaaacctg tcacggaaat tgtctacctg aaccgtaacg gcaggcgaga accgattagc 540

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attgtgcagc acgcttttca ctaccacatc accattcaat atctgggtga ctga

594

<210> 5520

<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 5520

gacgtattta	tgaccaatat	gattgcgcag	gaagccgtgg	cgaagtcag	cgtgctctct	60
gtctttgact	ttgatggtac	gttgacgcac	cacgacagtt	ttatcccggt	cctgcgcttt	120
gcctttggca	agcgctactt	tgctggccga	ctggtgcgca	tgccctcgcc	tacgctgcac	180
tgtgtgcgcc	gcaagctgac	gcgagatgag	ctgaagagag	tgttgatcaa	aaccttctct	240
acgggggtgg	atgagcactg	gttacgctag	caggcggaag	ccttctgtga	aaaatactgg	300
aacaagctga	tgcccccga	aggtgtgctg	gccgtcgcca	acgaggtcaa	ttccggtgcg	360
gaagtgaaga	tttgcctcgc	ttcccccgcg	ctggtattgc	agccgtgggc	cgataagctc	420
ggcattaaag	tgattggcac	gcagctggaa	gtgaaagacg	gcaagctgac	cgggcggtac	480
acccgccaca	actgcccggt	tgcccagaag	gtggcgaggg	tgagaaaggt	gtatggggat	540
ttgaacgcgt	atcacctcgc	cgccctgggg	gacacgcgtg	gcgaccacga	gttgcgtggc	600
gcggcgccag	atccacactg	gcggcatttt	catcatccga	gcaagcgccg	aaattcacca	660
attaaagggt	ag					672

<210> 5521

<211> 717

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (520)

<400> 5521

aataaaacgt	tagcaataat	gtacgggaac	aacgagatcg	tcagttattt	acaggccaat	60
aaaataactt	cgcttaaaat	cgaccatgct	gttactgcgg	tcggccagaa	cgtcaaaaaca	120
cagggtgaata	tgatagggaa	agggcgcaat	cgctgtgtg	attacgcctc	atgtttcaat	180
gatgaataca	atgatgtttg	cctgagacag	aagagcgaa	acctacgctt	cagagatgcc	240
gtttataaat	tagtaagcgg	tgtggatgta	gtctatgaaa	tgcttagact	gtattttgag	300
gaagtttttc	aatacaaaaa	tcttaaacag	ttagagtata	ttaaacagcg	gctaattggct	360
gtaaatgtgc	acatcgctgc	ggttagcctt	accggtgcgg	ggtttaccat	agccgttgcc	420
gcctgcgctg	gccttggatt	aaatatcagc	ctcgaaattaa	gcgccattac	cggaagatgg	480
gcttcccgag	gtattgcttt	tattggctg	tatgggggtan	tacagcaagc	cgccgatagc	540
gcgcatcgct	tgtagcttga	atttcccgcc	tggtactcgg	cactttatgc	tcaagggctt	600
gaaatgcctt	attttctcat	tgagcctgtg	tttcgctgga	cgagcgcgac	acgtgcgcta	660
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<210> 5522

<211> 732

<212> DNA

<213> Enterobacter cloacae

<400> 5522

ggatgcgaga	tgaaataaaa	gtggaccctg	attgtgattg	tcgtcattgc	ggctgcgcgc	60
gtggcgcttt	gggtgttttt	cgacaggcag	cgcccccggg	aacggcagat	ggataaagcc	120
cttaacgcga	tgcccgccgt	gcaggtgatt	aaggagcagg	agcccgcgct	gcattcagcc	180
atcctcgacc	agatggccgc	cttgcaaaaa	gcggcgagcg	cggaagcaga	gattatcgac	240
acccatcgag	cgagatctct	gcattctcag	atgtcgcgcc	tgccgaacgc	cccggacgcc	300
aacgtgtgtg	actacatgac	catcaaacat	gagcagacag	ccgcacatcca	gaaggctgagc	360
gacgacgcct	gcttcgcctt	ccctatcccg	atgggtgaag	gcggcatcaa	ccgatgcgt	420
atgctggata	aagacctgat	gacgcggcgc	atgcaggccg	acgcgcagat	gatgcgcggc	480
gcctacggca	aaaaccgcga	cacogtgacc	ccggccgaac	cgagagcgcc	tgtcgaggat	540
gtgcgcgcga	ttatgaagca	acttgcgat	aagtacggcg	aggacatcca	gctgctcgag	600
atgcgcggaga	aagcgtgtgg	caagagaga	ctctcctcgc	atatggtgca	ggagatgtgg	660

gccaaagggtgc tggcgctgccc ggagcagaag gcggcgaggg tgatacggct ggcgggtgtct 720
gagctggact ga 732

<210> 5523

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5523

gcgcgggtg caggggattc tatatatccg tgtgcaagtgc cggaagacgc aaccgttaat 60
gtggttaccg ccagcgcaat tttagagagt ttcatcacc atccattaat tagaatagag 120
caaggcagcg tcagttctatt aatggagtg gcgatgcgtc atttcccgga gagagtaaaa 180
atggtcgaaa taaaaaaagg cagccagagc tgccttctct ttcttgaaat aaattag 237

<210> 5524

<211> 1119

<212> DNA

<213> Enterobacter cloacae

<400> 5524

actaaggaaac ggacgatgcc ggttcatcat gctatctggc ggatagggga gcattccccag 60
ccgctcacca tcagcaaaact agccagcgag caactgtctg agaagatgat tttaaacgac 120
cccactatcc tctctgatca gtggatgatc atcgcccatc aggaataaac gctcgataaa 180
ggcggtatcg atctgtctggc gattgcccgc gatgcctcgc tgatcctgat tgagcttaag 240
cgtgaccgca caccgcgtga agtagtcgcg caggcgctgg attacgcctc ctgggtggat 300
gacttaacgg ccgaccgcct gtcgcagatt tatgaaaaat ttctgtgtgg cggaaatcta 360
ggctcgccat ttaagcaaac cttaatacc gaactggaag aagagtcgct caatcagtcg 420
catcaaatca ttatcgtggc ggccggagctg gatccctcca ccgagcgtat tgcctgattat 480
ctgagcaaga atggcatctc gattaaactt ctgtttttaa aagtgttcca gcacgggtgac 540
gaacagttct taagtcgtgc ctggtcttatc gatccgagcg aaacgcgaac aaatgccgcg 600
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gcgggtgggt gaagcttgta tagtcagaat ttaaacacgc ttccagccggg ccagccggtt 780
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cctgtaaaaa ggctggaaac ccggtccgag ctccgaagcgg tgaatgaggt aggtttcttt 1020
ggcaaccaaa acacggtctg caagccaacg actcccaaat ggcgtttttac tgtagaaaaa 1080
ttgaagcgct atttcacgca atgggataca gagaataaa 1119

<210> 5525

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5525

gtggatctta tgacgttgac gaataggact aaaaccattc tccgatgggg agggatttgc 60
attgtcacgc tgggttactt cctcgagactc ttgtacgct ccgaagcatt ccgggttttc 120
ttgaaaaac agactcttgc ctcaaatcct gttccattga gagagtatta ccaagcggtt 180
gattcaactg gtcaagctac aagcggtgtt ttgatgcag caatttatgg ttctgtgatc 240
agtgtactc tgatctact tatcttcaaa aaggtgagat ga 282

<210> 5526

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5526

ttccgggttt gccatggctc atccctcttt aaagtgcggc agatacttct attttcacac 60
accgacgggt ttgcctccac cttgttgga aagattttgt aaacggggtt gcaaatgaat 120
aattacacat ataaagtga ttttaattca ataagtgga ttcccatgt gaggataaaa 180

tgtctgatct gtacaagaaa cactttctga

210

<210> 5527

<211> 456

<212> DNA

<213> Enterobacter cloacae

<400> 5527

ccttatacag	gcattatttaa	aatgaataaa	ctcatttttc	ttgtgttatt	cagcacagcc	60
gcattggggg	ccgaagattt	tcagataccg	atgcagcgcg	cccttgaatt	caatcgctgg	120
tacgtcaaac	aagtgaacaa	cgatcgttat	cccatccaac	agggaaatga	aatcgatgag	180
ttcgttacgg	ccagtacccat	gaaaaaatta	cgctcatgcag	acgatccccg	ttatgcccag	240
gctgaatttt	acgaggctga	tttttttatg	aaatcgcaat	atatcgggga	ggactggggt	300
gagaatgtgg	ctattgatgc	glatgattca	gaccgggtct	gtgtaaacgt	gaatatcagc	360
tttggcaaaa	agaccagca	cacagtcatt	gattgcatgt	ttaaagaaga	tggggtctgg	420
aaaatccagt	ctgtcgccgc	tggggataat	aattga			456

<210> 5528

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5528

agcgacccgc	gctgggtgcat	aagcaaatga	attatttact	cagaacgcgt	taattttcat	60
aaagaaccgt	ttgcattgag	taaagcgctg	attaaatcgc	ttgatcccaa	aagcgagctg	120
cgtataatgc	ccgacaattt	gcccgggagga	agcatgtgtca	agcgtgtacg	acataacgtc	180
ttaccgcgtc	tgaatcaga	cgtcgccctg	ccgtttttct	tcccgttgtc	aaacctattc	240
ccagagcccc	tcatttga					258

<210> 5529

<211> 498

<212> DNA

<213> Enterobacter cloacae

<400> 5529

ccacaccaat	tattttctaaa	gcaagtagag	ggacctatga	agcagtcac	caacaaaactt	60
acaccagaaa	tgctggcgagc	ttttgacgaa	tcaccattta	cagccgaaca	actcgccgga	120
atgaacagcg	aagccagttc	actcatcgaa	aaacaaaacg	cctacaattct	cgtcatcccc	180
gttacagctg	cttatctgat	cgctacagag	gcgagcttga	cacgtaatgg	tgggaaagtt	240
tttagtgaat	ataacggacg	gcagatcaaaa	cttgatgacg	gcacaatgct	aaacgtgtct	300
cgagttggcg	atgaagtcgc	ttaccagat	ggaacatccg	cgaagatcac	cactggtgcg	360
ggaacacac	cagcgcaatc	tattgcccgt	gttggtagct	cgctggataa	cgggcgatgaa	420
attattagct	gcccacaaaa	tgccggaaga	agagtagtcc	gagccgggga	atcggtgcca	480
gaaaactttc	tgaataaa					498

<210> 5530

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5530

gtgggtcggc	gttcaacctt	cgcaggccag	ggcattaagg	gaaggtcgcc	tgcgggtgcg	60
gcaaaggcgg	aggcgccgag	cataagcccg	gcggttaaga	gactgtaccg	taacatgaat	120
gttccatttc	tgcaggcgca	aatacaggca	aaacatttct	ttacatgctg	ctcaaatgtg	180
cgtaacggga	atgcgcccag	ggagatcaca	ggttgttga			219

<210> 5531

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 5531
 cctactaatc gtgaatatta tctaagtaac tacaaaggag agtatatgag cgataaattt 60
 attgatgcga ttcatagtcg ctctaaaatc atgttaactt ttatttcaaa agaagataac 120
 gcgacaatca cgagattaac cgctcctatg gacttgcggc ctaggcgtag agcacatgat 180
 aaaagtgaca ggtttcattt ttgggattac gaaagtgata aaaaaaatca tgtttctcagt 240
 ttgagggcgt aagctatttaa atctctagta gtaatcgctc aaaaatttca cccgcgaagag 300
 ttgtttaact ggacacccaa ctgggtttatc cccagagatt gggatcaata ctcttaa 357

<210> 5532
 <211> 1152
 <212> DNA
 <213> Enterobacter cloacae

<400> 5532
 aataaggcgg tcaactatggc atcggttaac agaggctgca cagttcacgg taagaacggt 60
 ggtctacacg gagataaaaac ctctacaggc gcacaatgta ttgccgcccg ccccggtatg 120
 tctgttatgg gcttgttgaa actttacatc ggcgataaga ccaactccttg cccgaaatgc 180
 gggaaagtgg ggttaattgt gaggcgtgat cctcgctgct caaatagtgt ccgagtcggc 240
 gtggatgggt ctgaaatcct ctgcggttgt ccacagggta ctaattttct tatcgacct 300
 ggcacggttg aggtttaatac ccttcctgag actatagcgc ctggagagcc agtcgagcac 360
 gcacaggcag cgaagaagaa aaacagcttt actgacacct gcaaggccaga agataatccg 420
 ttattgaaag cgcgtttacat ctggactgaa accacagacg caggacatgc tttogtttcc 480
 gtacatcaag acaattcgat ttatctctat acctatggtc gctacggcga aacagggtcc 540
 gggaaattaa ctggtagcgg aatttttaaac ttctgcgaag gtgaagatgc gagggtttac 600
 tatagagcag agctgtaccg gatgggcgca agagcggttc gaatatagta tgcgtatccg 660
 acaaaaaaaa ggcagttctt tgaagatctt tggaataagg gtgaaccago gattcgaca 720
 tcggaaatga aagaacaacac ccaacgcaga gccgcacaaa ttgatgagta ccagtaaca 780
 ggaacaacat gtaccactca ctctgttgaa gggatgaagt ttgctggttc aagggtatcc 840
 gagcacaact acacatctac tacgacgcag attcctatcg aatccgcaga agatttcaaca 900
 atccctgtct cattgcagcg ttactgttag tcaaaaagggt ctgacttctc atcaattgaca 960
 atgttgtaaa ttgacaggcg gtttaaaaaa acagggtccca atgtcggaat ttgtccgcga 1020
 taccacagat caccaaaagg taaagttcag cacatgcgag ccgaagcagc ggctacaggc 1080
 gattcattat cacagtatcc cagcggtaact ttggcgggtg tattagggtg atcttatgac 1140
 gttgacgaat ag 1152

<210> 5533
 <211> 462
 <212> DNA
 <213> Enterobacter cloacae

<400> 5533
 ggcaggggta aactgttggt cgacaaaatg tggacagagc cgaagcgccc tgcgcagcca 60
 gtgcagcagg cacaacggtt gattaaaggc ggaaccctca attcggtagc agccatcatg 120
 gtgcggtgag atatacaggc gatgatagcg ctggatttca tgcgcggtct ccgctatctc 180
 ttgcgctgcc atgactgtgt ccaacgcggt ggcagcgatt atgctctgtg ccggtgacgcg 240
 agcatcgggc aggtaaagca tcaaaaagcac ctggcagcgg cgtcggaac tggaagacac 300
 agatggaaat tcaagcgtcg tcatcatctg tcgggtatcc agtgtgaaat ttgtataaga 360
 atagctaaag gatgggcgct gaaaagcgca ccggcagccc ttctactcag gattgctggc 420
 gaacatcaca gaatttttga cgtgaggaac agatgcaaat ag 462

<210> 5534
 <211> 345
 <212> DNA
 <213> Enterobacter cloacae

<400> 5534
 cacgaattga taaataattt gactaggcaa gaattgtgac cagatctaca ctacggcac 60
 agggcaaaaaa cttgcctcag gcataatcgca ttaaaaatgt atgagaataa aattatgaaa 120
 aaaaatcaaaa ccgctacagc agcgatgggt ctctccgcac ttctatttgg cgtatttggc 180
 gctgataata cgcaacctgc caatgacgtt aacagcccaa tcgggactgc taaagcctct 240
 gatgtagaag caggctccaa cattgccctt ggcactcagt ctaccggcca gtcaatgaat 300

gatgcatttg atgtacataa gctggggcg ggtgagtgg cctga 345

<210> 5535

<211> 291

<212> DNA

<213> Enterobacter cloacae

<400> 5535

aacatattcc	gtggatttct	gtaccgcata	gcgcgtctca	ccatcttccg	ccagcaggac	60
gcccctggcga	aacggcgtaa	agttcagcgt	atgggggtgcc	atatgaagct	ggaagcctc	120
gctttgacgc	gtgatctgct	gcacgacccg	atagcgacag	acgggttccc	gggtgggttc	180
cgccgcgaacc	ccggcgagca	acgcccggag	cgctctgagc	gtagggttaa	aacgcgtcag	240
gtcgttttgc	ccgaacgcga	gcgcttttcc	cagctccagg	gtacaggata	a	291

<210> 5536

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5536

atagtgaata	tttttacgac	aagcggcgct	ttgccgcgatg	aaaacaagaa	agagtatgca	60
gaggccaaat	ataattctgg	aattgtgac	gctcgcgaaa	tttatcggtc	gtttacgcc	120
tgttcgaggg	caaaacgcgc	cgaatgggtg	caaatattgc	accgttgga	ttatctgtcg	180
cagtaa						186

<210> 5537

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5537

gatttatctc	taagatttoat	agcctgctat	tattctgaat	ccattttgac	gttaaaaagt	60
gcaattataa	tttctaagcg	gcatttcttt	gtattgtttt	gttacaacaa	ggtgccagcc	120
gatgaatatt	cagccatttt	ttactccccc	cttcagacct	caacgcacac	gaacgaatcc	180
atctggcttt	ga					192

<210> 5538

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5538

agagggggcg	ttgcccgcgc	ctctcagggtg	cgacttgaac	ctgaatcacc	gaacgtattt	60
caggacagca	tcaagcagtt	gcaatacagc	aacaatgagt	ttgaggacaa	gtatgaacct	120
atccacgagc	ctcacaagcg	tctccttttg	gttaaaaagga	gcacgatgct	ggcgtaacct	180
tccgcccgtc	gtggccagca	cctggattga				210

<210> 5539

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 5539

cgaggggaatg	ctatgtcgcg	tctgttaatt	gagcctgtta	cgctctgatg	acggggctat	60
atcgccctga	aggcggagag	tatcgcggtg	aatttcaata	tgctgcgcag	gctggaagag	120
aactggcagc	gggggtgaaaa	ccgctttaa	gcgcggggtg	aaaagctgtt	ggggcggttt	180
cttaacggca	ggctgggtgg	cgtgtgcggc	ctcaaccgcg	atccgttcag	ccagcagccg	240
cgcgccggac	gtattcgtca	tctctacgtc	agcgaaaaat	gcggtgggca	gggcattggc	300
aaacaacttt	tgacgggtgt	gatggcggat	gccagcatct	ggtttgattt	tcttaatacc	360
atcgcccgcg	aaaccgcgta	cggattttac	catcgggcgg	gcttcaggct	gggtctcagac	420
gaaccccgcg	tgaacgcacc	ccctttttgc	gcagtgtaa			459

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<210> 5540
<211> 288
<212> DNA
<213> Enterobacter cloacae

<400> 5540
ctgccacga agatgccacg cacaagggcc agcaggatct gccaggccag gctgactttc 60
aaatttttca tagaaactga ctccctcaat gaaatctcgg caccatcaaa actgcatgaa 120
tatggagaca taactgaaagg gtatgaattg tgttgcgttg gtttatggga ttttttaacg 180
cgccgtatga gtatcatttg caccggcatg tgcgcaagcc ttaagaaca aggcatttca 240
ctgcaaaaag tgtcattgtc ggtaatattat agcaattcgc ataaataa 288

<210> 5541
<211> 225
<212> DNA
<213> Enterobacter cloacae

<400> 5541
cgccccgtg ccatagctcc ctgcgcgcag acccggtccg cccattgcgt cgctacgcgc 60
ttccgtccag gtattggctg ctcccgccgt atttgcata aaaaaggaga caggcatgct 120
aaccatcgaa aatttaaaat gttttttcac agtgctcgcg taaatagttt gttattagtt 180
aaccctgtct gttatcacc aaacagggaac gaactattgc tgtga 225

<210> 5542
<211> 258
<212> DNA
<213> Enterobacter cloacae

<400> 5542
ttggaatgct taaacgcctg gctctttgtg caaccgacga catgcagtgc catcctcaag 60
gaaacagatgg caacgctctg gcggcaaac ccgatcgcaat gtggcaccct ctctctacca 120
caccacgtca ttctggcggg agaccagggt ctgacggatg gcggggatct ggatatgaat 180
ctgtgtttcg tgaccaagct gttcgacgac ctgaacttca ccttcacagc tcaatccgcg 240
aatgtggctt ggcagtag 258

<210> 5543
<211> 210
<212> DNA
<213> Enterobacter cloacae

<400> 5543
cttgaggaa tatactccc cgcagagaaa atgaagaatc aaccaggaca gatgtctcca 60
cagaggggta accttatgtc gcatcagcaa attattcaga cacttattga atggattgat 120
gaacatatcg accagccgtt gaacattgat gtggtcgcta aaaagtcggg ctattccgaa 180
ggtatttaca gagaatgttc cgcaccgtaa 210

<210> 5544
<211> 240
<212> DNA
<213> Enterobacter cloacae

<400> 5544
agcggcgctg gtgcagaagc ccgcgcaaca acggtactat taagcgagaa caataagcag 60
gcggcgctga gcgccagtgt gatcttgcgc atattttccc ctgaatatc agtttgttat 120
ctttttattt tgagcggatg gtcaaaaaac tatccgacca taaccccgag gggaggggaa 180
ggaaaggagt ttttacttat taagcggaat aaaaagaaga cgatcacaac gtgtggatga 240

<210> 5545
<211> 429
<212> DNA

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<213> Enterobacter cloacae

<400> 5545

ggggtgaaaa	ctctcacttt	atcatgtttt	gctaaaaaca	cagagatccg	ccaggctgtg	60
ctatactcga	cgcacgcgaa	alcaggagat	cgcataaatga	aaagacctga	ctgtattcgg	120
cactggcggg	acgtggaagg	cgtctgatgc	gcaacgtatc	ctgacagcaa	cgaaactgtt	180
tctattggcg	cgccgctggc	cgcgaaactg	ggtctcggcc	gcatttggtat	tcaccatgaa	240
cggtcgcggc	ccggacgcgc	cacatcttat	ccgcatcgcc	aaagcgacga	agaggagtgt	300
gtttacgttc	tggaggggta	ccctgaggcc	tggatcaatg	ggtattttat	ggaagctoga	360
acccggagac	agcgtgggat	ttccagccgg	gacgggcgtg	tgtcacacct	ttatcaacaa	420
taccgatga						429

<210> 5546

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 5546

agggaaattg	ttatgaagaa	agtactgtat	ggcatttttg	ccatatctgc	gcttgcggcg	60
acgtctgtct	atgcagctcc	ggtcagggtc	ggggaagcag	cagggggcgc	agcgactctt	120
gggtctcgcc	ggaagtctac	cgcagccgac	accagccgcc	taagtctcgc	cgtgggtgtc	180
ggcgtggcgc	caaccgggtg	cggtgatggc	tccaataccg	gaaccacgac	cactacgacg	240
accagcacc	agtaa					255

<210> 5547

<211> 486

<212> DNA

<213> Enterobacter cloacae

<400> 5547

aaagacctga	ctgtattcgg	cactggcggg	acgtggaagg	cgtctgatgc	gcaacgtatc	60
ctgacagcaa	cgaacgtttt	tctattggcg	cgccgctggc	cgcgaaactg	ggtctcggcc	120
gcatttggtat	tcaccatgaa	cggtcgcgc	ccggacgcgc	cacatcttat	ccgcatcgcc	180
aaagcgacga	agaggagtgt	gtttacgttc	tggaggggta	ccctgaggcc	tggtatcaatg	240
ggatattttat	ggaagctcga	accgcgagac	agcgtgggat	ttccagccgg	gacgggcgtg	300
tgtcacacct	ttatcaacaa	taccgatgaa	gaggtgcgct	tactggtggt	gggtgagggc	360
aataaaaaac	ataaccgtat	ctactatccg	ctcaatcccg	tgtatgccc	gacgcgcgaa	420
gaccgctggg	tgcgcatcgc	gcctcagttt	tttgggcgcg	acgatggaaa	acctgggcga	480
aaataa						486

<210> 5548

<211> 1332

<212> DNA

<213> Enterobacter cloacae

<400> 5548

caaaactattt	acgagcacac	tgtgaaaaaa	catttttaaat	tttcgatggt	tagcatcgct	60
gtctcctttt	ttatggcaaa	tcaggcggga	gcagccaata	cctggacgga	agcgcgtagc	120
gacgcaatgg	gcggacgcgg	tgtcgcggca	gggagctatg	gcagcggggc	gttaatcaac	180
cccgcgctgc	tggcaaaatc	taagcccgag	gatgatgtga	cggttatttt	gccgtccgtt	240
ggcgctgcag	tgaccatgtg	agacaactct	caggacgaga	ttgatacctt	taaccacaaa	300
atcaatcatt	acaaggatgt	ggttgatagt	ctgaccccca	ttgaagttat	caccaatcca	360
ttaggttgga	tcaatcagtt	ccaggcgcca	gcgaaagatc	tgcgtgatga	actggactac	420
ctgaaaagcca	agaccgcaca	gcgcccgga	ggggcgggga	ttgccgtcag	gtaccctaac	480
gatgtctctt	ccgtggcctt	tatggcaaaa	ggctatgccc	atggccgggt	cagctctcca	540
atcgatcagc	aggacattga	ttatctgcgc	ggtatacaac	gaagcgatgc	ggtggctgcc	600
gggtgtggcg	tggatgcgcg	gctaaacggt	accgatcaga	tcacaaaaaa	ccttaactct	660
acggcgtctg	gtcgggcggc	gattgtgtcc	gactacggtg	ttgcggtggc	cgcgtcagttc	720
gatcttggcg	ccgttccggt	ttccgtggcg	gtcacgcgga	agttgcaaaa	aaactggctc	780
tataactaca	ccacctcaat	ctacgattac	gacagttaata	agtggaacga	cagccgcctac	840
cgtaccgacg	acactggcct	caacgtcgat	ggcggtattg	cggctgattt	cggtgaaaac	900

tggaacgctgc	gtgtgagcgg	acaaaacctg	atgtcgcgcg	atatcgatac	caaaagatatac	960
cgcaattcgca	acggagcgcac	gggagaggtta	gtgagttata	aagacacota	tcagatccgt	1020
ccgctgtgtca	ctgtcggggc	cgcttggcat	aacgatctgg	tcacgcttac	cgcagacggc	1080
gatctgacgc	aaaccaagg	ctttaaaagc	gaagacacct	cccagtagct	tggcgctcgt	1140
gccgaagtca	cgcgcgtgag	cttggctggca	gtacgcgcgc	gttatcgtgc	ggatatgaaa	1200
gggaacgaca	gcaacgtctt	taccggcggt	gtcggtttgc	cgccgttcaa	cgcgcgtccac	1260
gttgacctga	tggggcttta	tggcgaagac	gagacctggg	gcgcaggggc	acagttgagc	1320
atgacgtctt	aa					1332

<210> 5549

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5549

cgtttacagc	agtatgtcta	tggattatgc	ttgtgtggaa	caataaatgt	acccgcagaa	60
ataattcatc	gcattgaaat	aattgccttt	tttgattttt	ataattctttg	ttttacactc	120
agcatgctct	tttatttcgt	ggtottattc	ttttattcag	atatgagtta	ttcggttggtc	180
tctctcgatt	aa					192

<210> 5550

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 5550

ctatttcagt	catcaaggat	gaagaatgaa	aaaaagtatg	ttgtcatacc	ctacggtgaa	60
tattttccga	tgcgttttagc	catgcttgag	tacgatgacg	atgatgaaaa	cgcattgggaa	120
gacatccctt	acgaattcaga	catctacgat	aacgtaggtt	taccgggtga	agtgtgcgac	180
atcatcgata	acgagaacgt	cagccctacag	gcgcgcctggc	gcatttttacg	cggcatgtcc	240
cagcaggaggt	tggcggaagaa	gcttggcacc	agccagtcgc	ccgtgtcaca	gctggaagcg	300
ctggactccc	gaaccgaaaa	gcgcacccgc	gaaaagctgg	cggcacttta	cggctgtaaa	360
caggagcaga	tcagctctcta	tttacccgaaa	gagggttaa			399

<210> 5551

<211> 483

<212> DNA

<213> Enterobacter cloacae

<400> 5551

gaggacaaca	tcgtgacgct	cgatcctgaa	acagacttaa	aactggagcg	cgtggtggac	60
gcacgcgcgc	atctcgtgtg	gctcgtctgg	actacgcgag	agcacatcaa	aaactcttcc	120
attcctgtctc	cccataaggt	gaaccgaatgc	gaactcgacc	tgcgcgtggg	cggacgggtc	180
aaacacgtgt	ttgaggtgga	cggccagcgg	atggataacc	ggggcgatct	ccttgaaatc	240
gatccggggg	aaaagcttgt	ctttaccgac	ggctataccc	aaggctggaa	gcgcggcgag	300
aagccgttta	tgcgcgcaat	tttgcctctg	gaagacgcgc	gggaggggcaa	aaccgcgtat	360
acggcgatag	cgcgccaccc	cacgaaggaa	atccgcgagc	agcatgaaca	gatgggattt	420
cacgaagggt	gggggattgt	gctggatcag	ctgggtgggt	atgtgaaagg	gcttaacgct	480
tag						483

<210> 5552

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5552

attgagaaga	cacagagtgc	aagcgcctact	gcgcacagcg	ggataacgat	atccttctctg	60
aaacatttgt	ttctcgtattg	gttggcgccgc	attaatttct	gggggttatt	aaagcaca	120
aagcgcgcgc	agggcgtttt	tggatatcag	gaatttcgct	taggcagcgc	cgggaaaccag	180
cacttcgggt	gcgataataa	cgataatcag	gccaaaccagc	accgcgactg	a	231

<210> 5553
 <211> 480
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5553
 atctctttaa aaccacttct ctttcattct ttgtcgtgct tatactcggt tcactttctc 60
 cgtgccgacg atctcattat gtacgccagc tggacatatc gctcgcgctt tatcaaaaaa 120
 catctgctga tgttttttgc ggcgttttgc tggctgttga tccagactca ggtggcgctc 180
 ggcgtcccatc aatgttcaat ggattttgcg ggcgaggttg ccaccatcca gcatatggag 240
 atgatggcgc aacgggggoc gatttatgct ggcgtgtgct caccgtgtgt tgaaaaacat 300
 tgtgtgcccg atcaggatca aaaagatcct gccacggcgc atctggttgc gctgcctgcc 360
 gccatgaccc tgaccttaac tccggcagag tgctgtctgc caagccattc tgcgtggtcc 420
 gttacccttc ctgctgtggg gccggcgcca acgatccgct attgcccgtt tccggagtaa 480

<210> 5554
 <211> 1242
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5554
 atgagcatgc ttctacgcgc agaatacagc cgcaatatgc ggctgatttg ccatagcgac 60
 caggggcgct gtcgggatgg cgtgcagctg atgtgtgcac gggcgtttgc gtatatcgcc 120
 catatggtgt cgcagggtct ttgatattgc gacgtgcgcg atccaaaaaa tccgaaaccc 180
 gccggctgat tccccgcgc gccgggcacc tggaaactgc acctgacgac ccatgacgac 240
 ctgctgtcgt tgatcaacgc ccgggatctg ttgcccagc ccgcgttcgc cgacgagaag 300
 gtctactaca cccgtcaggt aggagagacc gtcacgcagc ttaaggacag ggcgtggagc 360
 gccgggcttc ggcgttttga tatctccacg ccggacaggg ccgcgcaaat cgcgtttctg 420
 tgcgtgagcg gcatcgcat taccgcacac tggtaactgc tggcgcgctg ggcgtacgtg 480
 tcggcgctga tgcacgggtt taccgactac attttcctga caattgaact ggcggacccg 540
 cgcaagcccg aggtggcgcg ggcgtgttgg ctggcgggga tgaaccactc cgacgacgaa 600
 cagccgggact ggcgggaagg gaaacgctac gccctccacc acgcgattat tgcgggggat 660
 accgcgtacg gcagctggcg cgaaggcgcg ctgacgctgc tggacgtgaa ggcgtgcacc 720
 cagcctaagg tcattagcca cgttaactgg agcccgccgt ttggcggttg gacgcacacc 780
 gcgctgcgcg tgcgggacgc cgtatctgctg gtggtgtcgt acgaaggcgt gctcgataac 840
 caggagaagc gcgagaagct gatctggctg ttgatattc gcgagccgct gaaccgcgtg 900
 agtatactca ccttccccga tccggatgaa atcgactacg tggcgaaaag ggcgcatttt 960
 ggcccgacac acctgcacga gaaccggcgc gggagctttg tcaactccac gctgatcttt 1020
 gcgacgtata agaaccggcg cgtgcgcgca tatgacatt ccaatccgta tcccccgggt 1080
 gaaccgggag cgcctgtgcc ccggcgccgc gagaggatga tggatacgcg gcgacatgcg 1140
 ccgcagggtg tccagtcgtg cgcagctgtt gtggatgcgc aggggattat ttacagcacg 1200
 gattataacg atgggtgtgc ggtgattgag tatctggggt ga 1242

<210> 5555
 <211> 879
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5555
 acagtggagc gcgtgcccgc ttccgccagc agctgcccga acaccatacc gaaccaccatg 60
 aattccacgc tgcgttaagg agccgctatg aacatgaaac cgtacgggtg aatgctgttg 120
 ttgatggtat ccaacttcgc cttgcgccag caatctttct ccacacctga cgaggcgcc 180
 aatgccctga cgaaggccat cagcgagcag aatgagagcg cgtatggcga cctgctgggg 240
 gataactggc gcaactatct gccacctgaa gggggttgat cggaggcggt ggctcgattc 300
 ctgcgtgact ggaagataaa ccatcgtaac gaaatcagcg gcgatattgc ccatctgtca 360
 gtttgccata ccgcttgcca actccccata ccggtagtga agaaaaaaga gggctggcca 420
 ttgatgatcg agaaagcgcg tgatgagatc ctgacccgcg aaatcgcccg caacgaaact 480
 gcggctatcg aagcgttgca gcctactgct cagcacagcg ggagctcata ccgcatgaac 540
 caccgctatg cgcagaagat tgcagcacgc ccagggtgaa aagacggcct gtactggccc 600
 atctcccgcg gcgaacgcgc aagcccgctg ggtcccgctt ttaccccgcc ggagcctggt 660
 atgggctatc accgctatcg gttccgcatt ctgtcgcata aaaatggctt tgcgatgggt 720

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gcctggccgcg taagctatgg tcagacgggg gtaatgagct ttgctgttaa ccaggaagac 780
aaggttttacc aggcacaatct cggaacgat tcggcgcgaga aagcgcaggc gctcgtgtca 840
taccaccgcg ataaaaacctg gcagcctgtc accccctga 879

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<210> 5556
<211> 201
<212> DNA
<213> Enterobacter cloacae

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<400> 5556
cgggacgacc cacaacacat agggcggaacg ggctgcggca atttgacgct gagtttccgt 60
gtggataatg ggggtggagca gggcattaa caggtctttt tccgtctggat cggaaaaaat 120
gtactcacgc agctgcgcgac gattcagggt gccctcagcc tgtatcacac ggcgacccaa 180
atgcgcttcg atggcgctta a 201

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<210> 5557
<211> 195
<212> DNA
<213> Enterobacter cloacae

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<400> 5557
tgccgaaaaa ttctctccgg caaatgcgcc cgtcatatcc cggctaaccg gcaacctgtg 60
ggctcgtcaa gcgaagcgcc agcaggtctc aaagggttact gctggttttc gctccagtea 120
tcgtatccgc agagatcgcc ttctgctcga atgcgctttc ctccgcgcgc ccatttcgcc 180
aggctataaa gctga 195

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<210> 5558
<211> 312
<212> DNA
<213> Enterobacter cloacae

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<400> 5558
gcaggcgacg gaaattcaga agggcgctct tgcgagcgac cagcagcgcg ttgccggagg 60
ggggcgagca gacttacgga actgcttccg ggcccggtga cggggtgcta catcatgctt 120
aacgattcag caaatttttt aatgttgctt ttttgtaaac agattaacac tgtgcgagaa 180
tcttgctatg ctgcccgacg cggatccggg catttacctt acaaactgct gtctccacgg 240
agcgtgaaga gaacgccccg cgcataatgac aatgagagcg aggagaaccg tcgtgctaga 300
agaataccgt aa 312

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<210> 5559
<211> 189
<212> DNA
<213> Enterobacter cloacae

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<400> 5559
caacctcaac ttaatacggc gttttcaaat aagatgactg tcatatatca agttgcgtgc 60
caacttttta aattattgaa aataatggat ttatattttg atgtctccaa atgggtagtc 120
attttgacta tcttaaaaaa tgcataatg acactatgca ttgtcaaaat gacagtggag 180
cagagatga 189

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<210> 5560
<211> 282
<212> DNA
<213> Enterobacter cloacae

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<400> 5560
cgctcagccg gcaatgtatc cgttacttac ccaggcaagc gcggaagggt tggatttgaa 60
agcgcgagcc atcgccggaa aggcgacgct ggcaataaac atgtttatca aatcaaggaa 120
aaagccgagc agaaaagcga cggcgatttt gctcgatcac gtcattggaag ttctcccggt 180
gaggtggcgt atcgtatcgg ccgcacggtt acggataaac gcgacaaaag acgatatact 240
gtcaacatta ttttgacagt taaccaggca agcgtatgctt aa 282

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<210> 5561
 <211> 516
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5561
 gcaggtcggc gaacagatca gaaaactggg actggactga tgaccaccgc cgtacttcag 60
 atggcgccagg ggggtgctcct gaccacgtca tgccgtgctg ccttcgtgct gttgtttctac 120
 gtgactcgccc ttggcgctcag catcggtgag ttgtctatcc cgtccaataa cgtgtttctac 180
 gccatcagca ataaactggg gctgactgac gtcccgctca accgcateta cgagagcgtc 240
 atctgggact ttgcctcag ccgcgcgctg gtggcgccct gctgcggagc cgggttgccc 300
 atctcggggg ccgtattgca gagccttttg aagaatgcac tggcggaacc ttaactgctc 360
 ggcgtgtcgg cgggagcgtc aaccggggcg gtgctcagtc tctgattggg tctcgggacc 420
 gggcgacgtg tgcctttctg cgggcgcgtt tgcgggagcc ttcgcgcgct ttgcctttgt 480
 cgccttctcg accaaccggc cgcgcggcgg caatga 516

<210> 5562
 <211> 363
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5562
 acgctcgtga atgatccagt ccgcttcgcg cagttgttcc agcagagtaa cgggatgggt 60
 tgccagccag cctggcggtt ccacgggcag gatggcggaag gaggtcatca accggcggtg 120
 gtgacgcgaa tctgcaagcg tgcgagcccg gatagcgaca tcgaagcgct cggcgataag 180
 atcgccatgc aaagaggacg agacatgcgc ccacgcgaagg tccgggtgca actggctaaa 240
 ttacgccagc aaaggcaca ccacctgcga gccatatctg ggcgtggtgg tgatccgcag 300
 ttctccgctc agcccgcggt ggttggcgcg aacgcacatc tgcaatcgct ctgcatccgc 360
 taa 363

<210> 5563
 <211> 417
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5563
 caacacgcag ttacttgccg aactgcaaca ggagcaacca tgaccatttt cgaacaagag 60
 atccctcgac ttacgtgcgc ccttgaaaac tggttagggt caggcgaagg caatcgggac 120
 gccctgctcg cccgtttccg tccggaattt ctgattggtt ccacgagttg caaccggtta 180
 gatcatcagc cgccttgccc atttttatat gcgcagcggg gaacccgacc cgggcacag 240
 atcggtattg acgcggttaac aacgcttcag acatgggaca acggcgcggt gctccattac 300
 cgggagacgc aaacccggcc aggcacgcgc gtcaactgtc gctggtcaac cgcggtgctt 360
 aatcagggaag gggataacat cacctggcgt ttgtgcgacg aaacggcgca gccgttaa 417

<210> 5564
 <211> 240
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5564
 gtaaatgttt gcctggtcga gtatagggaac tacgtgaaag gagggagcgc taaaatgctg 60
 gattttacgt gttgcgtcat gttttttaac tattgggtta cgaagcgcc ggttagcgtc 120
 acgcttaccc ggcctgcatt gcatttcccc ctctccctgt gggagagggg tgggggtgag 180
 gcatcagccc gcaccgaacg ttgcacataa cctgctgctt ctatcgtgac tggcggttaa 240

<210> 5565
 <211> 252
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5565
 gccacagagg cgttcagtag ttgggtcaaa agttccattc agtggttcctg gaaatcgggt 60
 aacgtcacgc ctgttaattcg ggaataacag caccggcgaca ttgttatgat ttcattatgg 120
 tcgtctcgcg acacattgat gtgtggccaa cactgttccc tgtaaatgg ctggttagca 180
 agcactaact tacaaaataa cgaagtgaat ccaattgtaa caaagcccca cgtttctgcgt 240
 cacagaattt ga 252

<210> 5566

<211> 249

<212> DNA

<213> *Enterobacter cloacae*

<400> 5566
 atctgggtgc cgcgagggcg cgttttaaat ttattcggga agatgtcgtt actcattact 60
 tatacctttt ttaattccgc agttttagcc agtagctttt cttatttatt cagactcagc 120
 gtcagcggtt tattttattt cctgactgaa ttttggcggt ataaaatcgt cattcagtat 180
 aatgctcacc accggcgagc acattgtctc aatgctcaat tatccaacgg gagtaaacacg 240
 ctattttga 249

<210> 5567

<211> 231

<212> DNA

<213> *Enterobacter cloacae*

<400> 5567
 aactcccggt tacttactat gcttaagtag gcggagcacc cctcagatgt tctccgctta 60
 gttctggaac accggttaag ccgtaacaca atggaagggt tctataatga aataccgcat 120
 caccctgggt ctggcccttt tttctttaag cacagcttcc ttgcgtatgt ccttttgta 180
 ggagaaagaa caggatatcc aacgcgaaat cagttatgcc gaaaagcata a 231

<210> 5568

<211> 483

<212> DNA

<213> *Enterobacter cloacae*

<400> 5568
 ctaccgcgta caggcgaaag cctttgggtc ggcgaaataa ccggaggcgc tatgagcgat 60
 cgcatttttt cggggatatg gctgctgctc tgcattggcg gcatgttcgt cgcctggcag 120
 atccacagcg aatacagcta tgaacccgtg gggccacgcc cctttcccggt cggcattgtc 180
 ggctgatgc tgcctctgct ggtagcgctg ctgctgcgcc atccggatac cgtggagtgg 240
 ccggccagccc gaacgctgca acgtctgctg gtaatggta ttgctctgct gatgtacggc 300
 tgggggcttt aatggctcgg ctcccgatt gccacggccc tgcagacgat ggtgattggc 360
 atactattta acgcctcgtc gctcgggcg gggatctcgg gggctgtaact gggcatttta 420
 ctctggtagc ccttcagacc cctctgggac gtgaccctgc cgtttggcgc atgggtttaac 480
 taa 483

<210> 5569

<211> 207

<212> DNA

<213> *Enterobacter cloacae*

<400> 5569
 aaacagtgta gcatcagagc tctgctatcg ggaatggcgg ccagttctcat acatatcccg 60
 caatgcctgt tattgacaca tagcggagcg atctttcaca cgtttctata taacctgggt 120
 agcaaaacta tctccgtgct actttcttcc agcaagcaat tctggaatac gctacgcaac 180
 ttaaacaaat atttcagacc aagatag 207

<210> 5570

<211> 444

<212> DNA

<213> *Enterobacter cloacae*

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<400> 5570
ggtagtgcga tgaatatcc aatcgctctg gtgctttgtg cgtcactgt cccagccatt 60
gcagccagca ctgactggcc atcagcactt catggaatcg cctcaggtga cacacactgg 120
attgagcaag ccccaacgct ggtgccacg gctgacgcca ggcaggcgca actgctggag 180
gatgcttttg ccgacgcgt cacaacaaac accagcgcca cactgaaagc gctccagacc 240
attgacgcgg gaaagtggcc gcacatggtt ggcagcgata tegtctgcac gccgcctcta 300
gagaataccc ccgcggaagt cgacgcgttc tatcagcgca ccgcgcgggc gctgctggat 360
acggttgagg gtgctcagtg cctctggatc ctggaagcaa caatggaaga gctaaacgct 420
gagaaagccc gtcagggtaa gtaa

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<210> 5571
<211> 195
<212> DNA
<213> Enterobacter cloacae

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<400> 5571
cgtggcagac acaaagtatg tggcgctcgt cgcaagcgat acggcggtgt tctacgggat 60
tggccggcag gtgacggcga cggtgaaatg cagctggtaa gcattggtgc gctctgatccc 120
ctcaccctaa cctctcccc aaaggggaga ggggacgatt acgccccgc cctcttgggg 180
agagggccgg ggtga

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<210> 5572
<211> 210
<212> DNA
<213> Enterobacter cloacae

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<400> 5572
cacttcacgc tgggtgttag aagcttaaac ccgggccacg gcattgcgcc ggcggataaa 60
cgtaacgacc cgatgatccc ccgctccgct ttggtaatca ccacggtga cgatcgcgga 120
cgcccgcttg ggcctggctc tggccagttg gaaacagcgc gcgattggc cgggtcggta 180
atatcatccc cgcctcccc cggatgccta

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<210> 5573
<211> 195
<212> DNA
<213> Enterobacter cloacae

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<400> 5573
atggcgacta cccctggatt ttcatacgta cagcgtgaag aaagcgctgt tcatcacctt 60
cttcacctgc aacttccgga ttctgaggat ctctttgaac tggctggcac ctgtcgcgcg 120
tacgtgagcg taactgtgga aatggacgat gcggtgacat ttctacgct ctgtgaagcaa 180
ctgctggggt tttag

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<210> 5574
<211> 453
<212> DNA
<213> Enterobacter cloacae

```

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<400> 5574
agctgctcta tgaaaaaatt accctggcgt acgtggacgg taacatcatg cattcagata 60
gctggaatga ccgtaagacg gcataaggag aacgttatgg gatggaagta tgagcaatca 120
actggcaaga tgtataaaga cggcaaaata attgagacag gatattccgg tgccttacc 180
aataaaaaata atccggaccg tcagcatgtg aagggtctgg gtccattgccc gcgcggaaca 240
tataaaattg cgggacattc gaattctaaa ggaccattta ccattatcct tgagcaaaact 300
tcgggagaga gttttggtcg ttccagagttc cgcattcatg gtgaccataa gtacggtcca 360
gcgggatttg cttcggaggg gtgcatttat ctctcactgt caacgcgacg taaaatcctt 420
cgtgacggcg gtgagcttga gtagtgcgga tga

```

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<210> 5575
<211> 204

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<212> DNA
 <213> Enterobacter cloacae

<400> 5575							
cctttaattgc	aaattgcctt	acatgcta	attatcaggg	atgaaatata	gtgttcagac		60
ttatcggtca	tgccgagctc	agggaggaga	tcctctcatt	gcctcgcgat	gtttatcaag		120
aagacgcaaa	aaacgcctc	tgctgaactc	cgctctggcac	tgaaacgaca	acaggagatg		180
ttgatgagc	aaaaagatta	ttga					204

<210> 5576
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 5576							
acatttttat	tgaacgtctt	tggttgctat	cgccataaaa	tcaccggtaa	atcgccggtg		60
atgatattgc	aaattattac	catttgcat	agcgttgta	acaaatttcg	ttgggaaaca		120
agcggtaag	aagagggtat	ggagtgggtt	gctgtgggg	atcgccgcgc	tgcccgcgct		180
ggcggaacg	tgcgagcaga	cgccccgca	ggcgcatatt	cagggaagt	ttga		234

<210> 5577
 <211> 258
 <212> DNA
 <213> Enterobacter cloacae

<400> 5577							
aacgggaatgc	gcccgggaact	gttatttttc	accatcacc	tcaagatcgt	tatacacctg		60
atagcgggtt	acgcccaggg	cctgcgcgc	gtgtgggacg	ccaccccgca	ttttgaaaat		120
gcctttagcg	tgcatttcag	cgactatttt	aagccgctgc	gctttctgta	ctcttttgcc		180
cggaaccgaa	tgattatcga	tgatttcctg	gatagactgc	tcaatgatgc	cgcccagggtt		240
catactctgc	gggtctga						258

<210> 5578
 <211> 372
 <212> DNA
 <213> Enterobacter cloacae

<400> 5578							
tatttaagga	ttaaaatgaa	atctttgact	ttaattgtgg	ctataacgct	gctgacagca		60
tgccagctgg	tacggccctt	tgccgaggct	accaettata	aaccggtttac	cgtttcagcc		120
catcccggac	tgaggggagc	gtatcactgt	atgcgaagcg	cgcttgatgc	tgaaggctac		180
gaggtggaac	acatcttccc	ggaacgcgat	acgcctaact	tttttgatgt	ctccagaggg		240
agcagctgga	ttgccagagt	cgatatgtct	cataccacgc	gggcaaaact	tctggatatt		300
acgcttatct	ccggttcgaa	acagactaat	gaagatcttg	cccggtgcat	agcccattgt		360
gtcagcagat	ga						372

<210> 5579
 <211> 924
 <212> DNA
 <213> Enterobacter cloacae

<400> 5579							
acgggtacca	gtttctgctt	atactggtag	tgccactacc	atgcaggaga	tgttatggcg		60
ctgatgtctg	aacctgtcac	ctctctccag	gatgacaccc	gcaagcagct	gggggctgtt		120
ttcgctgcgc	ggcgcgaaag	cctcgatccg	cagcgtctcg	gcttaccgcg	cagcggccgc		180
cgccgcacgc	cgggcctcgc	ccgggaggag	gtggcgatgc	tcgcggatgt	cgccgtgacc		240
tggtacacct	ggctggaaca	gggcccggaa	gtcaaccctg	ccagcgcggt	gatggccgcg		300
atgcgcaaac	cgtgcgaatg	caccccagac	atctttttgt	gctcgcgcgt			360
ttgccgcggg	gcgaagcccc	gcagcgggtg	tgctgcgagg	ggatcagcga	agggcagcgt		420
cgccgtgctg	ataccctgat	gccgaacact	gccagtattc	agaaaccgaa	tttcgatata		480
gtggcgctgga	acgacagctt	cgcccaacctg	atgggtgtcg	atttcaacgc	catcccgcgc		540

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gaagatcgca actgtattta cctgttctc acccatccg cgtggcgcc gcggctcgcc 600
aaacgtgacg acgtgctgcc gatattcgtc tctacttcc gcgcggccat ggctgagcac 660
cgtggcgacc cgtctcgga agcgaagctg gcgcgtttt ttgcagtgct cgaagagttc 720
aaaacccctgt ggcaccacggt taacgacgtg cgcggcgctgg agaaccagct caagctgttc 780
acccatccc agctggggga tttcatctc cagcagatgt actgggtact cgcgcccgca 840
aacggatcgc ggctgctggt ctatttacc gtggatgagg caggggagag ggcatgagg 900
tgctggcgag agcaggggat ataa 924

```

<210> 5580

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5580

```

cggcgtaatc atcctatctc taatgagtc ttactcactc ataatgccaa agcggctcgta 60
cgggacatac taacgcgctt tgtgctggcg aaacatacct ggaacgatcc actgatccag 120
ctggcgaaag ccagcaagga taaaaactac cggctgctga cgcggagct gggcgagccc 180
gtgcgggtga gtgataccac gcaacaattt cgcgagtggt gggaataa 228

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<210> 5581

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5581

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aaacaggcgc ttacgccaat ttcaagccag cctgattttc ttcatgaaac acccatcgcc 60
aaagtacggt taacgcacat ttctacagc acaattgact gttataacag tatttttctt 120
acgctgtggc aattttatta ttctctacc atgctcatat caccctcact tcaactgttg 180
ggctttttgt ag 192

```

<210> 5582

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5582

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agtgtcgctc gcgtgctacc ggcacaaaat agcgagata acgaagtcc atatcaaaaa 60
cgctctcaac cagcatggat tctatattgg aactctctgc tgaatcgggt caacatttat 120
ttaaccttta taaataaagt tgaagaggac gggcatgatg atgcattcat ctgcatcgca 180
ctgtga 186

```

<210> 5583

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5583

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ttgacagcca acgcatttgc ggtcacgttc aagaacatgc acattgtgat tcatgtgtg 60
ggccacagtc gggcacaggt cggcgagtt accacaatgc agacacgggt cggcatggaa 120
aaaaaacatcc cgttcggcag tttgtccttc cggatttgcg caccaggcac aacgcatctg 180
gcagccttta aaaaagatga tgcgcggat acccggccg tcatgtaa 228

```

<210> 5584

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5584

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acgcgatctc ctttacgcgc gacgttgcgc ctaaaaggga aatcttctgt tacttgcctc 60
cgctcacata cgcctatcca gctcatcacg atctccagg ctttgttttc atatgaaa 120
ctctgtttct tatttaatac ggtcaatata aaagcgatga atgtttctgc aagcgacaat 180

```

gtgacgaatt tggtaacga tcagcaatta attaactaa

219

<210> 5585

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5585

gcggaaaaagc atggttcatt atctgggtac accctccagc cgcctctgc tgaacgggac	60
cacagggcaa agctaaaagt tcaactgtta acccggtctg aagtggcgac acgatggtt	120
catcgagcgc ttattttata tgagccgcgc gccgcgtttt ataccgagaa ggtcgctaaa	180
aagcaaaaca aaaatgcgca ggttgccagc gtcgtcagga aaaatttcca gcagcggtttt	240
caacgcgaatg agaggtga	258

<210> 5586

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5586

aagagttgtc tgcctgtgag aatgttcggg aaacgggcat tatccaaagt taaggcttct	60
atgcagcat gggaaagatc cgggttacag cagattgacg ctgtgctgca atctgcgtcc	120
ctgattaagc gaatcgatga ccatgcaagc ctctcaattt tcagcccagg tgctggactg	180
gtacgacaaa tacgggcgta a	201

<210> 5587

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5587

gctgttcata gcgtcaagaa ggctccgata tggcggcctt tttttatgct ttttcaatat	60
ccctgcaatac ctgattttgt gatctgtttg gcaaaagcgg tgctttttgt ttacccttta	120
ctgacctgcc tgtctccatg ggggatggat ttgtgtttt gggttaacaa aaggaagaat	180
aatggaaca acttgatgtt gatg	204

<210> 5588

<211> 321

<212> DNA

<213> Enterobacter cloacae

<400> 5588

ggagaccgtg gcatgagcga cagcgtgaac tacaaccogg cgtcgccgga aagccggcag	60
tttaccaccac cggcagaggc cggtaaatggc gccatttcata agccgggtga ttacaccaac	120
ctgatctggc aaacccgcag ccgcgagcgc gaaagctggg aagtgaagct gattgagacg	180
ctggaagatc tcttcgagca gggcgttgaa accttgccgg agctggttaag cgggctgaac	240
gcggtgcgca tgcacgacca gcagggcgag ccgtggagcg acgcagagctt ccggggcattc	300
ttacaggta acggctactg a	321

<210> 5589

<211> 942

<212> DNA

<213> Enterobacter cloacae

<400> 5589

atacaggaat gcgaatgac caacacoggt tttattattg gtgcgtaccc ctgcgcaccc	60
tcgtttcacc agaaagggga gcaggaagaa tacaccttct ggccgggaact ttccgacacg	120
ccaaatattc gcgggctgga acaaccttgc cttgaaaaat tccatccggt ttggtgatgaa	180
tggtctgttc gtcatacgcc gggcgaactg cagatcgttg tcacagccgt tatggaagac	240
atgcgcgcc cgggcagcaa cggcgcgtt ggccgtggcg ccgcggacga agaacagcgt	300
aaagcgtgca ttgaatatta ccgccatctg catcaaaaga ttgatgcgct taacaccggc	360

tttccgggga	aagtgtgcgc	tctggaaatg	caggccgcac	cgcaggcggg	taatgaatct	420
gtcgagcaag	cgacagaagc	attctccgcg	tccgtacggg	aaatcgcgag	ctgggactgg	480
ggctgcgac	tgtgtctgga	acactgtgat	gcgatgaatg	gcccgcgccc	gcgtaaagg	540
ttcttgcct	tagagcaggt	gctggaggta	gtgaaagaga	cggatatacg	cgtctgtatc	600
aactgggcac	gttcggctat	tgaaggctgc	aacacgcgcc	ttccgctgga	acatgttcag	660
gcggcactcg	ctgccgggaa	actggggcgc	ctgatgtttt	cgggcaacgac	ccctcacggt	720
gagtatggag	atggcgagg	tctgcacgcg	cgtttttctt	cgttctgcgc	cgacagttct	780
atgtccattg	aacatgtaa	agcgtctgtt	actgcggcga	gcgcgcgaac	attgaaattc	840
tccgtattta	aattactgga	aataaatgct	aatgctgacg	tcagccatcg	catcgctatt	900
ttgcgcgacg	gcattagcgc	tatgaataaa	gcatacaaat	aa		942

<210> 5590

<211> 333

<212> DNA

<213> Enterobacter cloacae

<400> 5590

cagccactga	ccaggcggtg	aataaaaaatg	atgatgaagc	gtggggtgtc	actctttctg	60
ctgctcttat	taacagggat	cagtgcctct	gaggagatac	ctgtccaaaa	agcgcagcag	120
gggaaaaatg	gcccgagcgc	ttccctgaat	atggaaacgc	gtgctcaggga	tcaggcggtc	180
cacgcgtata	attctgaagc	acagaaaatt	catataaacg	gcttcgagcg	ctttcagggc	240
agctatgaac	tgaaggcta	tacggcggtg	aaagagggct	ttgtctgttc	ttttgatgca	300
gacggccagt	ttttacatct	tcgaatcgct	taa			333

<210> 5591

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5591

cgcacaacac	gcateggcgc	gatgccagcc	ataccaggcc	agaccaagcg	caataaagaat	60
agccccattc	atcataacat	cagaactgata	atgaagcata	tcggcccgtg	cagcctggct	120
tttgtttttg	cgtacaaacc	agcgttgga	agttacaaga	acaagtgtgc	ttataagtgc	180
aactcacgtt	acgaccagc	caacgccggg	atcgttccatc	ggtga		225

<210> 5592

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 5592

gcgcagctgc	ggttcgcctc	tggcattatg	aaaaccgggg	atattgcccg	ccagtegcac	60
attcagttta	agctctgtcg	ggcaatagat	gaagttctgc	aaacacagat	cgttaaccga	120
ggcgtaggag	tgtttgtctt	cagcgcggat	gtagaacagg	tctccgcgcg	tgatgcggta	180
gggacggtcg	ttgaggacgt	gcaggccatt	gccccgcac	accagcacca	gctcgcaaaa	240
ctcgtggggt	tgctcggcga	agacgttttg	cgggtagcgg	tcggccaccg	cgacggcctg	300
actcgcggag	gcaaaaaaat	catcttttgc	aagaatgagc	tgagcagcca	caccacaacc	360
tctacggcga	ataaccggac	attattagcc	tttttcgagc	aaaaaacagg	tgactgcctc	420
cgcgttactg	aagcaacgcg	tctttccctc	gacgaatatc	gcgcggcgac	cagcttaa	477

<210> 5593

<211> 417

<212> DNA

<213> Enterobacter cloacae

<400> 5593

cggcgagctg	ttgtcgtcgg	cgcgcgtacc	gtttgcgcgc	gtgggtctgc	cggtaactgc	60
ctctttgtct	ggccttgcgc	cgaggaaaaa	ataatggaaa	acatgacggt	ctttattctc	120
ggcattgcga	ttctttctgc	cggaaacctat	ctgatgcgtc	ttggcggagc	gaagcttggc	180
aacgcgtcgg	cgcctttcga	acggtcgcgc	gcgctgcttt	cgacgcgcgc	tacggttttg	240
ctgtttctcc	tcgcgttgcc	gacaacgttt	tatgaagggg	accatttttc	cgggatggca	300

cggtgtgctgg gcgtgggggtt cgcggtgttt ctggcctggc gcaaaatgcc gtaattgtg 360
gtgatcgctg cggcgccggt ggtgaccgca ctgctgcgtc tggcaggcat aaactaa 417

<210> 5594

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5594

agaaatgatt caaccacaaa tcattacctg atgcaaaaac gcgccttatg gcgcgaaaac 60
gctcatttta ttgacacaga ccacacattt cgatttcgat atttctcgtt tgtgctcgtt 120
aacgataaat taacctatg tctacagggc atcgtgactg tcacgggcgg tcacgcaaac 180
aataaacatt actcttttgc aggatccga ttatga 216

<210> 5595

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5595

ctttataaaa actacggcat tgataatcat tttcaatatc atttaattaa ctataatgaa 60
ccaactgctt acgcgccatt aacagctgtg ccgcccgaca ataattggaga ggattatgag 120
ttatacactg ccaticctgc cgtatgccta cgacgcactg gaaccgcatt tcgacaagca 180
gacgatggaa atccatcaca cttaa 204

<210> 5596

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5596

cgatcagtat cacgctctgc tgcacgcggc gggattatcc accagctgga ccagaacgat 60
gcagaagcgg cggataagcg gcaagatcga gacgagttcg cggagattat gggggaaata 120
gttcccgtag aaagttagcc gggtaaaggc aagccgccac ccggcacata cggttacgaa 180
cgcttataca gcggcagcca cagcgttaac ctgagccccc ccagcgggct gtcacggct 240
ttcaccagcg cagcgtgctg ttgcatggcg gtttccaaa tcgccagccc cagtcgccga 300
ccgcccgatt cccggtcgcg gcctctcgcg gtgcggtag 339

<210> 5597

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5597

ccgatgaacc cgcataacgt tcatctccgc tgctctgcga gtgtagccgt gtaagagat 60
gaagaaaatc ccattcatca ggggttttgc aaacctgaca gtgaaacaaa aaggaaagtc 120
ttttttgtga cagttagata caattcaccg tctcactccc gccattcgat tcagggaag 180
gttgatgct cgaaatgtta a 201

<210> 5598

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5598

ccgtactcac tttcttttcc tgagtatacc cttttggggc atacggctat taaggcacag 60
ccgcaagtct ggggtcaattc ggccgaaatg aaaatccgt caatgcttac attaatatt 120
gttattaaaa acaacgcttt tattatcgcc attgataatt acaggaaaaa tattcaaaaa 180
aaacgtaaga aaggtttatt cagataa 207

<210> 5599

<211> 210
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5599
 atccgctctcg tccttattat ggcgagcatt tccacgatat gtcacaacagt gccagaaaaa 60
 tatgacaggtt attttttttt tggggaattt agagggttgg gggaggggat gtcgggtggc 120
 gctgcgctta ccacgacctt cgggaccgta ggcccggtca agcgaagcgc cgcgcgggcaa 180
 ttcaaacaga ctactcttc ggcagcataa 210

<210> 5600
 <211> 219
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5600
 ctagtgaagaa aaatcgcgcc aattctaaca gtccaggcaa acgttttgcga gcttattctc 60
 ggcggtgggga tttttttttt tgtgcggcct gtacagggca acaaaactga ctctgttcac 120
 gaaaatgaaa ccggttttcg cgaatctgctt gcaacggcaa tcccttttgc acatcatcaa 180
 actgaaacgc gtttctgtaa ctgtttttgc agaaaaata 219

<210> 5601
 <211> 294
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5601
 ggtaaggacc gtaatcgccg gatgaaaatg gcgctcgtc agcgcgtgct gctcccggtt 60
 gtgcgcccac acacaggcaa ctccgcaggc gcgacaacgc atacactgtt gagcgttggc 120
 cataataaaa cgattcataa caacacctgt ttttggttca ataaccttat tctttctatt 180
 gttatcgtat ttaccacagc cagcatggcg acgcaatggt caaatgccca ggaaggcgaa 240
 ctatttccag tgaacctgtg gcagatcaat ttaattcagg aagctgatga gtga 294

<210> 5602
 <211> 216
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5602
 cgcctaaccg gcagcagttg ctttgattcc acgccccgta cgttcgatca gccgcgtctg 60
 aagaaactgc tccagctggc gtatttgcag gctgacggcg ggctgggaaa taccatttac 120
 atcgtctgcc gcagaaaaag tgcgcgcttg aacgaccaga cgaaggatgg cgaggtgtcc 180
 cagattgagc gtgcgtatgc aaagtcttcc ttatat 216

<210> 5603
 <211> 480
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5603
 ggagagacac agatgattcg tccatatttc ctgcttctcg tattttgcgt gacgtccttt 60
 gctggcgcac tggccgcacc gttggatggc ctgagcgccg ctgatgttaa tggcccgcc 120
 gccgtagcgc cgcaggaaaa accccagccg ccagcaaaaac tgatcgtcga cccaccgctg 180
 gcgggaccgc tgagttaaagg tgcggtcttt attcagtacc gcgtcgaaaaa cctgcgcatt 240
 gaacctgtat ttggaccoga cgcgctgaaa gtcaactccg gtatcggcca tattcacggt 300
 gtggtggatg acgcgcccgt gcactgggct gataccagcg gcgagccggt gatcctggtc 360
 gggctgcccg ccgggaaaca caaagtaacc atcatcgtt ctgacccgac gcataagccc 420
 atcgaccata aaaccgttga gttcaaccgt ccgccacagc ccgcgggttca tcacttttaa 480

<210> 5604
 <211> 198

<212> DNA
 <213> Enterobacter cloacae

<400> 5604								
gtttattggc	aattttaaaca	gggtggacaa	ctatgcttaa	aagatgaaag	actattcagc	60		
ttacagctgt	tcgttgaatt	atgggagaatt	gtaaatcccc	aaaaattccg	aatgtgttat	120		
attccactat	aggatatatc	ttcgaaaata	ttgaacatta	aatccacaaa	agaacaaaag	180		
gattcactat	ggttgtga					198		

<210> 5605
 <211> 849
 <212> DNA
 <213> Enterobacter cloacae

<400> 5605								
ccatcatcgt	tgctgaccgc	acgcataagc	ccatcgacca	taaaacggtt	gagttccacc	60		
tgccgccaca	cgcgcggtt	catcactttt	aaggagcctg	ttatgaaagc	attgtctgtat	120		
ttaacagcgg	cgtctgctgg	ggtttccacc	agcgcgctgg	cagagacgaa	agccagcgtg	180		
gtgctgggtc	acggggcggt	tgccgaagcg	agcagctgga	ataagggtgat	taccggcgctg	240		
caaaaacacc	ataacgaggt	cattgcggtt	caacttcgcg	tcacgtctct	gaaagatgat	300		
gtgcgcgcca	cgcagcgtgc	tatgcgcccg	gctcatggcg	acgtttgtgt	ggtcggggac	360		
tcctggggcg	ggtcggtaat	cagcgaagcg	ggcaataaat	cgcgggtgaa	gtctctgggt	420		
tacgttgccg	cttttggccc	ggattccggc	cagtcgaccg	cagatctggc	agacagttat	480		
cctgtctccg	caggggagcg	cagcctcgct	aaaaacgtcag	aggggttatt	atatctgcgc	540		
acaaaagcgg	tcagcgagaa	ttttgccctt	gacgtgaagg	acgttgagcg	cagcgtgat	600		
gcgcgcgacg	aaagccctat	taaggccgat	gcgtttgggg	agaaaagtcg	gcattgcgcgc	660		
tgccatgaca	aaccgagctg	gtatgtgac	agcaaaaaatg	accggatgat	caatcctgag	720		
cttgagcgcg	caatggcgaa	gaaaatcaac	gccaacacca	cggaggtagc	ggcaagccat	780		
gtatcgatgg	tcagccagcg	ggacgtcggt	accgctagca	ttgaacaggc	gttatcggt	840		
caacagtga						849		

<210> 5606
 <211> 1233
 <212> DNA
 <213> Enterobacter cloacae

<400> 5606								
agccattgcc	ctgcgccgcg	gcaacgccat	ccctaccacc	ggtgcatccg	gttattaaaa	60		
ggagaaatga	tgaaaaactat	ccattcttacc	caggggccagg	cacgaacacg	gttaatcgcc	120		
cccgacgata	tggtctcctg	caatcttctg	tttattgatt	gcaagctgcg	cggctcgcat	180		
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<210> 5607
 <211> 603

<212> DNA

<213> *Enterobacter cloacae*

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<400> 5607
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<210> 5608

<211> 1434

<212> DNA

<213> *Enterobacter cloacae*

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<210> 5609

<211> 189

<212> DNA

<213> *Enterobacter cloacae*

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<400> 5609
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gagaaatata acctgaagc ggccggacgta gtctgtact ccgaagaagg tgactttggc 180
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<210> 5610

<211> 1665

<212> DNA

<213> Enterobacter cloacae

<400> 5610

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<210> 5611

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5611

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ttacaccacc	tttgcatgct	tatgcaaac	aaaaaattaa	aattctcaca	acaagatcga	180
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<210> 5612

<211> 969

<212> DNA

<213> Enterobacter cloacae

<400> 5612

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<210> 5613

<211> 519

<212> DNA

<213> Enterobacter cloacae

<400> 5613

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aaccgcgtcc	tgccggaaaa	tgataaacgg	cacttttttg	aaacgtttct	ggaaaacggt	180
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tttttcggcc	tttgccggga	ggcaatgctc	aggaccgtgc	ggccctgcga	tccactttgc	420
gatgaagaga	tcttcacagc	ctgggcgatg	gcaattgcc	ccgggctgga	gtatctgcgc	480
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<210> 5614

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 5614

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ctcaggggaa	agetaattat	ttacacagga	aaagttttgt	tttttatatg	tttgcgattt	180
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<210> 5615

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5615

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tctgagcttg	ggggccatat	ttggcgctg	gggaaaatag	agataaaaaa	caggaaaaga	180
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<210> 5616

<211> 951

<212> DNA

<213> Enterobacter cloacae

<400> 5616

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gacgatcgcg	attcaactacg	tgacaagaac	ggcgagccgg	tgccaggttg	cgtgttcaac	180
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<210> 5617

<211> 981

<212> DNA

<213> Enterobacter cloacae

<400> 5617

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<210> 5618

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5618

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attgatctgc	cgcgttacca	gcagcccatc	ctccacggcc	tcacgcgctc	tgtattccgg	180
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<210> 5619

<211> 1257

<212> DNA

<213> Enterobacter cloacae

<400> 5619

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<210> 5620

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5620

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<210> 5621

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5621

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tatccttga						189

<210> 5622

<211> 564

<212> DNA

<213> Enterobacter cloacae

<400> 5622

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cggcttgata	tttttactta	cttcacgggg	aaaaaccgag	cgtgggggat	ggtgcaggat	180
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acgtgacccc	tgaacgagca	ttttgtctac	gatgacggcg	aaaagcagca	gcgcgtctcg	300
catatccgcc	gcgtaggcca	gaatcggtac	gaaggtacgg	cgggtgcact	agaaggtgtc	360
gcgcacagcc	aggcgccggg	caatgccttt	aactggcgct	acagcatgaa	cgtgaaggcg	420
gacggcaaaa	cctgctgctc	gcactttgat	gactggatgt	atttgacgga	cagcaccctg	480
ctgttcaata	aaactgagat	gaagaaattt	ggcgtaacgg	tcgcacaggt	gacgctgttc	540
tttaccgcga	aagaggcgcg	ttaa				564

<210> 5623

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5623

ctcaccccat	cattgttaat	aattattttc	acccggtgact	acaaccgggc	taatgatggg	60
gggagtggtt	cttatttaga	ggtattaaat	attaactctc	gtcaaatcag	gggaattgag	120
tgggaaaatc	attgcgcgtc	agcgggcgca	ttctcctgcg	tacctgcgcc	gctcacccgg	180
tag						183

<210> 5624
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5624
 ctcttggata cgataatgca tcatccttgc caacgatgtt cgcgcgtgtc acaggacagc 60
 caccctcgta ttatcaccgc gcattattca aaaagttcca cgggacaggg caccgatcat 120
 agcgtcagct atgtaccagc taaagaggtt gccacgtcaa attctttaat tcatgagaag 180
 ggttaa 186

<210> 5625
 <211> 294
 <212> DNA
 <213> Enterobacter cloacae

<400> 5625
 acatcccagc cgaatgaagc cttaattttg aaccgggttg agaggtcgag gctgggtgac 60
 cagtagccgc ataccatcaa taccatgaat attgcggttc ccatttcagg cctcttccag 120
 cgcgttgaca tggcgcagaa agtctgcgcg caccctcggtg cttttgtagt taaccaggagc 180
 gtttccatc tgatgatga tgatgcggtc gccatcctct acggcttcga taatttccgt 240
 gtgactcatg acctgaaca aggattccgg gctggaaaaa agcgtcatca gtaa 294

<210> 5626
 <211> 543
 <212> DNA
 <213> Enterobacter cloacae

<400> 5626
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 cagcgatccc gtgtcttggc ccagagaatc atggctaccc acctgaaaac ggcgaaaaac 120
 ctccggttgt tccatgcggt ggcgcgcgcg ggcttcgcgc cgggcgggat catgctgctg 180
 gataagccgg ttttcgcgat caatgaccgc cacttcgcgc tggatgtcct gccgggaaaag 240
 cagcgcgcgc tgcaacatat cccgcagtcg cgcgcgcgcg tcggacaggt tatcgccgcg 300
 aacgtcgaag aaaaaagcgc tgtggcgagc cagcgtggtg gcattgacgt tgcgcgcctg 360
 gcgctggacc caggccatga gtgcgacat gccctgatag cgttggtctac cgcggaacag 420
 cagtgctca agcaaatgcg cgagaccgcg gaatcgcggt ggctcgtgat ggcttccgcg 480
 actcacgcgc gccagcgcg cgcgcgcgtg cgcctcgccc tgatgcacca gcgttcgcgc 540
 taa 543

<210> 5627
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5627
 ataactgtatt tatatacagt attgtatatt gatagcaaag atcaaggggg aacgaggagt 60
 gacgtcgtac gggtcgagga ggaagagggt tatattcaga atggcgcgca ggcaaatctg 120
 gcggaagggt tatttaatat aatgtttaag gaataatagt gccatacagc caggataggg 180
 cagtaga 186

<210> 5628
 <211> 438
 <212> DNA
 <213> Enterobacter cloacae

<400> 5628
 cccatgagca cgttgcgcgc cgtcatcagt cggttcgttg attactacgc cagcgtggat 60
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 tttggcgaaac atagcggggg gttcgcgcat cagcgtatt taccaccaatt gctggttaac 180

gtccagcact	gtcgttttac	cgttgatgag	cgggtgcagc	agggcgatcg	ctttgtggtc	240
acotggatga	tgcactggct	gcacccgctt	attgcccggg	gtgcagtgcg	acagctgcgc	300
ggctgctccg	tggttagacat	gcgcgacgat	cgcattgttc	gccagcggga	ttaactacgat	360
gcggagagaa	tgattttacga	acatctcccg	atactcggct	gggcccgaac	cggcgtgaag	420
cggagagtga	aatcatga					438

<210> 5629

<211> 528

<212> DNA

<213> Enterobacter cloacae

<400> 5629

tgcccgcacc	atcagcgtgg	tgcagctgac	tgcggaacgc	gtatgaagcg	ttacggggcag	60
gtattttctg	tggccatcgg	ttttgatctc	tactggacgc	tggtgggtgt	gtttcgcgag	120
caggggctgg	tcatcttgat	cgcctggcgc	gtgcttgccct	ggctgttatt	accgccatca	180
cacccgggat	acgccttggt	gctggcggcg	tcgggtgcgc	tgctggacgc	cctctggggc	240
ctcagggggc	tgattgcttt	cacagggcgc	tcctgatgac	cgctatggat	gggtggcgtg	300
tggttaagt	ttgccaccgt	ctggacgcac	ctgacccgca	cgcacacatt	gccaggtatg	360
ttgctgacgg	tgtctgggac	tctggggcga	cggtagcctt	acctgatcgc	cgagcatctt	420
ggggccattt	cgtttcagg	gcgcaccttt	atcgtcgtca	gctggatgtt	ccccggctgg	480
ctggtgctga	tgtgtttttt	ccacctgttg	atggggagac	aacaatga		528

<210> 5630

<211> 468

<212> DNA

<213> Enterobacter cloacae

<400> 5630

tcttcaocgc	ctggaaaaag	gagaaaaagc	gttatgcaca	ttattttaat	ttactgggtg	60
attgcgggtg	gcattggggc	gtccgtggaa	gcggggctgc	tgggggccgc	ggggcgagag	120
gtggggcgac	tgtggggcgc	gttcaagcata	tttagcgtgg	gaacggggct	aacgtttctg	180
ctgatgctgt	ttttcagccc	cgcgaacagt	ccctcatatt	ttgcgcagcc	ttcatggcac	240
ctgttggggc	gcgtgctcgc	cccggtttac	gtcatcatte	tcaccattgc	cacgcctgcg	300
atcgccattg	ccatgacgat	gatcgccatt	ctggcaggcc	aggtttttta	aagcctgatt	360
atcgaccact	atggcctcgt	gggtacgcgc	cacgcgagga	tcgatataaa	acgcattatt	420
gcgctgggat	ttatcatcgc	cgcgctcatt	ctcgtggggc	aggggttaa		468

<210> 5631

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5631

aatgcgccag	tagacgcccg	gagcaagtac	ctgcacctca	gcatgaagcg	cggcggaggc	60
gtcgcgggac	tggaacgtct	gcgcgccttc	acgcagcgct	acgcagccac	cgcgcagacc	120
gttcagcagg	cggaaagaca	accatcgccg	gacgcggagc	ttgcgcggga	tatcgggttc	180
aagcgcaaa	acgggagtcg	tcattgagct	tcactcctgc	tgaggggatg	gttatgcagc	240
ggcacgcgct	tcagccacag	cctgagcgcc	tgccagtaa			279

<210> 5632

<211> 765

<212> DNA

<213> Enterobacter cloacae

<400> 5632

agagggcctg	aatgggaac	ggcaatatct	atggattatg	tggtatgcgg	gtactggtag	60
accagccggc	aacctctaac	cgggttcaaa	attaagcggt	cattcggctg	ggatgtctat	120
ttccttgggt	cgtgtgatgg	ctgcattttc	gttttacagg	cgctgatcgc	cacggcctgt	180
ctctggctgt	tggttctcgc	cctctccgcc	gcgcataaca	cgttccattt	cactgttcga	240
aaatatgcgc	actggcaaat	tgatttttat	aactggagct	tcctggggat	tcaggccccc	300
gtgggtgtaa	tgctgacctt	cgcgatcctg	ttctgtctct	accgctcgaa	ctgggcccgg	360

agcgcgcggc	tggaaggcga	aggccgaaaa	aagctctaca	agcggtgtgc	gcaatcgagc	420
ggaattgaac	agctgctcta	tcagtgcattg	gaggaagggt	aactggcgca	cgteacgctg	480
aaatcgcggc	ggatctatat	tgggatgatc	cataccgccca	cgctggagta	tgaaaaaacg	540
gccaatatcg	tgtctattcc	gatgctgagc	ggctaccggt	acgggaaaaa	catgcagctc	600
tgtatcgaac	ataactacag	caaatgggtat	gcggagcatg	atattacgtg	cgalttcagag	660
cccaaaaagc	ccatggattt	tcgcaaatgt	atcatgctgt	atcagatcga	gagtatcttcg	720
ctgttcgata	cggaagcg	gagcgcgctg	gcaatgcgtg	aataa		765

<210> 5633
 <211> 660
 <212> DNA
 <213> Enterobacter cloacae

<400> 5633						
gcattttatct	gtccggttgc	gcctgaagca	accgaaacct	acctgtacca	tgaccatcag	60
gagaacaata	tgacacgag	taaaaccctg	aaaaggctgc	tagccgtatc	agcagttgca	120
gcaattgtcca	gcaccgttgg	cgacacagcc	cagacgcaca	gcgcgcgaca	aaactcaaac	180
gcgggcgaagg	ctcaaccgga	cgccagactc	agctccggcg	acgagaaaag	gttgaaggac	240
atggcgcaagg	ccaatatcaa	cgaaagtgc	gcgcgcaggg	tcgccctgga	caaggcccaa	300
agcagtgaag	tgaaaaacatt	cgctcagaaa	atggctcgac	atcacggcgc	cgcgctgacc	360
aaagtccaga	ccgtttgccca	gaaaaagggc	gtggagctgc	cgacgcgaac	agacgcgcgc	420
cataaaagccc	tgaactcaag	gctggaaaac	cagcgctggg	acgtttttga	caaaaattgat	480
atgggaatag	ctggcgtaga	ggaccacgag	aagggtcgtg	cgaagcttaa	gagcgacgcc	540
agtaaaatcg	acgatccgga	tgtgaaggct	ctggccaacg	agcacacgcc	cgctgttgag	600
cagcatctga	agtcgcgcga	gcagatgtca	accacacctg	gcgcctcagc	cgataaataa	660

<210> 5634
 <211> 258
 <212> DNA
 <213> Enterobacter cloacae

<400> 5634						
cgagatagtc	gcgctatggc	gcgagatgac	tgcgcgtgc	cgctcgctggc	gggtgctttt	60
cacgggctga	ccggaaccgc	agctttcttc	ctgtgcgtgg	tttttagtca	aaaaaaagcc	120
ccgtactacg	acggggccac	gctgcttatt	tcgctgttat	ttatccagcg	cgtaggccaat	180
cacgtagtcg	ccacgatccg	gcgactggcg	tgacccgcgc	gcagagatca	gaatgtactg	240
tttgcgggtt	ttcgggtga					258

<210> 5635
 <211> 573
 <212> DNA
 <213> Enterobacter cloacae

<400> 5635						
ttatcgacca	ctatggcctg	ctgggtacgc	cgccaccgag	gatcgatata	aaacgcatta	60
ttgcgctggg	attttatcat	gcgcgcgtca	ttctcgtggc	gcaggggtaa	cgttatgaca	120
gtgattatga	ttattctggc	ggtgattggc	ggcgcaacgc	tgagcattca	ggctggccatt	180
aacgggcaat	taggcagcag	cgtaggggta	ttcaaaaagc	cgttttctgac	gttttccgtc	240
ggcgcgctgg	tgaccgcctc	gctgatcttc	ttttttgagc	cgaaaacagg	ggtagcgcctg	300
atggatgtac	ccaaatggca	gctctctggc	gocctctgag	cggtgcccct	tatcgtgatt	360
atggtgctcg	cggtgcagcg	catcgggacc	gtgtgtgcca	cggtagcggt	tatcctgggc	420
cagctggcca	tgagcatcgt	gattgataac	ttctgtggc	tgaacaatga	agccattccg	480
ttttcagtga	gcggtttcgc	ggcgcctgct	tgccctgagta	ttgcgctctt	cttcatttac	540
tcaagcagta	aacttcagcc	cgaagaggat	taa			573

<210> 5636
 <211> 198
 <212> DNA
 <213> Enterobacter cloacae

<400> 5636

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cagcaaaaaa atccggggccg tcaaaagcgc ctgatcgta gaacgactca tcacctgtcc 60
tgccgcgcgc ggccggaaac ggcctcgccg ttaatcatgc attatgcgaa tcttctcgaa 120
aacaatgcga ttgaacattt taatctgttc tggcgtaaaa ttgggttaca gcatttcctc 180
tcgtcagacg taigttaa

```

<210> 5637

<211> 1131

<212> DNA

<213> Enterobacter cloacae

<400> 5637

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atcgcgagtg tcatgaagaa ccctcatgtt gcagtgaat taagtcactt cccctgccc 60
aggggctcag gcataaatta tgcattgata acgttcgcgc aacatgaact taggatgcatt 120
aaccaaatga gtcaggcttt cacatttacc cttaagcgca gttgctttga tgaanaattat 180
aaccgcgtcag aaaaacacgcg taccaccacc aacttcgccca acctggcgcg tggcgagaag 240
cgtaaggaga acctgcgcga cagctgtgtg atgatacaaca accgctttaa cgcgctggcg 300
agctgggata acccgaaagc tgaccgctat gccgtcgagc tggagattat ttcagtcgat 360
atgaatatcg gcggcgattt taccttcccg gccatcgaaa ttctgcaaac gacgattgtg 420
gataaaaaaa cccacgagcg catcgaaagg atcgctggaa ataacttctc atcgatgtt 480
cgtgactatg atttcagcgt cctgctgctg gagcataata aagatcaacc ccgttttacc 540
ctccccgaga attttggcga gctgcaagcg aatatcttta aaagcttcgt tcatctcgcg 600
gaatatcagg cgaacttcaa aaaaagcgccg gtgactcgcc tgactgtgcc cagcaaaagc 660
acctatcgct gaccgcgtaa ccaccacccg gtgctggggt atgagtacca gccggaagcg 720
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gaaaacacgc tgcgcctttt cgccttcttc ttcacggcg atttactgcg tgattacacc 840
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gaaatttaca atgcgaattc cgtcgcgcca cagtgtatc agcccgacct gaatcagcag 960
gatcactcat taacaaaaat cgtctatgac cgtgaagagc gcagccggct ggccattgaa 1020
caggggaaat ataccgaaga gcggtttatc aaaccttctc tgagcagctg 1080
tctcatcact tcacgctttc atttaatacg gataaaaggt tcttctcatg a 1131

```

<210> 5638

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5638

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ggatgtcacg cगतgaaaaa tttactgatg acgtctcttt ccagcccgga atcctgttg 60
caggtcatga gtcaccagga aattatcgaa gccgtagagg atggcgaccg catcatcatc 120
gatcaggatg gaaacgcctc ggttlaactac aaaaagccac aggtgcggca ggactttctg 180
cgccatgtca acgcgtgtaa gaggcgctga

```

<210> 5639

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5639

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gatgagcagc atgatggagc cgtoacattt aaacatgcatt ttatgttgca ttttttgaac 60
aagctgttat tgtcccaaaag ccttagagca cataaacata agaaaagtgt tgacttaaac 120
tcgccccgca tcaggggcatt ttttttgct gtctgtaaac aaaaaacccg ccagaagcgg 180
gtttttgttg tattcgagaa aaitatttaa

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<210> 5640

<211> 330

<212> DNA

<213> Enterobacter cloacae

<400> 5640

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aaaaccaaat tcgaggggtat gaaaatgaaa aaagtattag ctctgggtgt tgccgtgtgt 60
atgggtctgt ctccgctgc attcgcggt gaaactaccg ccaccgcagc gctcgcggt 120

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tccactgtctg	ctccggccaa	aacggttcac	cataaaaaac	atcacaaagc	ggctaaccac	180
gcggcagaa	aaaaagcgca	ggccgctaaa	aaacaccaca	aaaaagcgcg	aaaaccagcg	240
gtagagcaga	aagcccgagg	ggctaaaaag	catcacaaaa	aagcagcaaa	acacgaagcg	300
gttaaacctg	ctgcacagcc	agcagcgtaa				330

<210> 5641

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5641

catgggtgatt	gtctggcccc	tgaagcactt	caaggatttt	taaccgagga	agcgttaactt	60
tcaggccagc	tttctttaa	ggggtattgt	tgtcagtcac	gcggaatctg	tctgtgtgtc	120
aaacgattca	cttcaaaaga	agaagtgaac	gaaaatgcac	ttgggataat	gcgtctcatt	180
atagaactgc	cgtgcctaaa	tgaaaagtgt	caagcgacc			219

<210> 5642

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5642

attaaacctc	cgctttattc	ttatatatat	gatttccctta	tgtttaattt	agctaaagcg	60
ctttctgtata	aacagaagtt	aaacgggtca	ttttttctta	taatcgacaa	aagccatcca	120
gatggctgtg	aggggtggtg	ttttttgtgc	tattgcgtaa	ggattgtatt	aagcgccata	180
aaaatggggg	tattttttta	tctcaggata	tttctgtgaa	acaaaaagta	a	231

<210> 5643

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 5643

tccttaagtc	agtatcaggg	aggtgtaggt	atagaaaaga	ataaggaact	tgtcgccagt	60
caggcagcgt	atagcgggta	tattgtggag	tttaataatg	gctcccgctc	ttggataaat	120
agggaaacat	tgtcgtcggg	atgggttcgac	aatccgcagg	tgctcaaaaa	gggaaggatg	180
cgctttcaga	agacaaagat	gaatcttttt	gcttatcttc	ttgaacatgc	tgtgcgaaaa	240
gaggtcagcc	gtgatgaatt	attacatcag	gtatgggaaa	agtatggcct	taagtcatcc	300
agcagacaac	tttgccatgc	aatagggcag	cttaaacatga	gtctgtttac	gctaggtatt	360
cottacgaat	ttatttcagtc	gaataaagggt	aagacactatt	cactggaaaa	agtaaaaggtt	420
ttctttatta	cgcaatccga	tattaatgat	gatgcattat	aa		462

<210> 5644

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5644

tatatgaatt	tggcctattt	tttattttctg	tcataaactg	ttatgcttac	gagctttatt	60
attaatacac	ttgtcgtatt	ggtaaaagttc	aaattacttc	gtgatgaacg	tctcgaatat	120
accagcaata	aaaatatgtg	tgagatgtac	gatttaataga	atgcgaagga	agaaatcctc	180
ataaggcatc	ataagcagat	gttggcattg	catctttcac	tattaatatt	cggtctattt	240
attgcttaca	tttactaa					258

<210> 5645

<211> 297

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> {139}

<220>

<221> unsure

<222> {208}

<220>

<221> unsure

<222> {226}

<400> 5645

ttagctgccc	ttcaaccagc	cgggcaagat	gcccgcctgc	ggtcgacggc	gcaacgtctg	60
ccgccgcact	cagttccagt	gccgtccaac	caagcccgct	cattagcgca	caaagcatct	120
tcacgcgcga	cggatcggnc	attgcagccg	ccaccgcggc	aatgccttt	tccagcatcg	180
cgctgttacc	agagggttag	ctcgtctnta	acattcgtcc	gccccangtg	tggtgatctc	240
agcgggccac	ttatcatcat	ccctcagcag	attaaggtga	ttcccatggg	cactgta	297

<210> 5646

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5646

tacttaagta	ttctcatttc	atcggcaaac	aacggagcca	atgagatgaa	cataacotcc	60
caaccaaacc	cagcgagtaa	ggaattttag	atccacgcca	agctcaaggc	agcaaatctg	120
cactggagtt	atttacgagc	tgcgcaacct	catcagaatg	attttgatta	cgaatttaac	180
accacattta	ttgacggttt	ggaattcgc	atctacgaac	gtgtaggtaa	ttattttggt	240
ctgggtgatt	tcttcaagtc	atatgaagaa	gcattgtgat	atgctaaaaa	aatcattgat	300
gaccatctg	acattaagaa	aatgttctct	gctattttaa			339

<210> 5647

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 5647

atcgctggag	tatttcacag	caaaaaagtc	gagttagatg	ggattttgta	tgaacacctc	60
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gotgctacca	ttgctatagc	aaaaaacgga	actaatttta	ctggacttat	gcaactgaat	180
aacgactatt	ctttatttgt	ttatcatgat	ggtaaaaata	atatggaagg	tctaattaaa	240
gaaatggaat	taaaagggtta	tatgtatcag	ggagcaatgg	gcaatgatga	tgttgcgcgt	300
gagtttcccg	gtattctttt	aattgcacca	gagaagcttt	aa		342

<210> 5648

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5648

ttgcaccaga	gaagctttaa	tatcaaccct	atcgggaaat	ctttcccgct	tggggagggt	60
ttccctcttt	ttttggagaa	accatgact	ttaaatactt	caatgcttaa	caaagtatct	120
gcaaaaacaa	tctctgagaa	ttttgcaaaa	tcatatccag	atttactgga	aggtgcagtt	180
ataacaaaaa	ttgaataaag	tggcgtcaaa	ggatcgcgct	gaaacgataa	aatcgatttg	240
tcttatgatg	gagatgatat	tacggatcaa	aaaaagcgat	ctaaaaacca	attacgtttg	300
attgacataa	aagcccttag	cttccaaaag	acgattacca	gcagaatatc	cacccttttg	360
ctc						363

<210> 5649

<211> 663

<212> DNA

<213> Enterobacter cloacae

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<400> 5649
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ccctttacgc ctattagcgt tgaaggtgat gaaaccagg actactatca ggaaacaattg 120
ataacagatc tggcagaaga agcaatgagg gtttatgaaa aaattagtaa aaataataat 180
ttgcgcctcaa gtactattga ccgactgaag caaatgcaaa ataagatcat tagcttcacg 240
tttatacata aagaggcggc agtacttgca gaagctataa aacacataat gaataattta 300
ccctaagggtg ccatttcctga accctcgagc gttgcggtgt tacagcagtg gttttatttc 360
atgagtgtat ctccaatggt aaagcgtatt atttcaggag agcaaaaagt tactgactgg 420
ttggaatcta ttaccagatc atttaatacaa agctcacaac cagaaccgaa cgcgctacag 480
aacacaggta ttgaagctat tttagattca acaaatgtgt ttcagggtga accgtgcgtg 540
gagaacgata gaaaaaacag cagcttttca aacactgatt ctgtagctga accctgagaaa 600
tcagtttcgc aacaggaaga caatgctgaa aatgggtttg atatcgagct caaaggctgg 660
taa
663

```

<210> 5650

<211> 633

<212> DNA

<213> Enterobacter cloacae

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<400> 5650
gtaccccttt ttataaagag gtattctatg aaattagatc ttaaatcatc gccgcgccat 60
attaagcgtt tacagaatat agcaaaaagtc attagcggct taggcgatgt aagagttgta 120
atagacgaca ataccaaaag accgtatttt gatccgtgca ataaagtgtt tgttttacca 180
aacggcgatt atagcgatga tgactttgtc agtcgattg aaggttttac ctgctcatgaa 240
gctggctcatg gtcgctatac cgtcagtgag gtttacagtg accgctttaa tagtgtttctc 300
atgtcatctg aagggtttac accgttcgat gacggaatga atgcagagtt tgagagccctc 360
gctgagaaac gtaaaagctta tagcagggca aaacgtctta ccgggcttat aaatctgttc 420
gatgatgac agatggaaga gaaggttggg aacgattatc cggatgcaaa ccgcgcggtt 480
gcagccactt accgactgat ggttaaagcc ggaaggatga ctctgtatat atctctctgt 540
ccggaataat ctgtctctat tattgagtgg tatctgctta actcatcgcg agtacaatgt 600
cttaactcgc gagtgcagga accgactttt ttt
663

```

<210> 5651

<211> 237

<212> DNA

<213> Enterobacter cloacae

```

<400> 5651
acattaacta aactaggatt tatctatatg aaaaacatca aatctatcgc cgtgacctct 60
ctgttatccg ctgtgtccct ctctggcccg gcacagaaca ttagtgttac tgacacaact 120
cttgatggcg ctgaagcgca gaitgcggct aaggcaaaaag aggcacaaaac ctctacaaa 180
atcatttctg catatactcg taatcgtgtg cacatgaacc ctgttctggg tgaatag 237

```

<210> 5652

<211> 363

<212> DNA

<213> Enterobacter cloacae

```

<400> 5652
agacaagagg catcgacaat gcgtctggca tcatatgcta ttgcgttact ttctcatcact 60
tcatttgacg gctgttaaac ggaaaaatga aaggcttttg ttggaatttg ggtcgaggaa 120
acaaatttcaa agatcccgcg taaaatttct attgccgcagc agaaatcggg gcaacgtcat 180
ttctatgcgg taaaataaac cgatctcata tgggataaaag aacggggcgt caattacaac 240
acgaaaaaaa tcaatgccat gctggataaa gaaaatttcc tgtggggcga taatggggat 300
aaattcatca tctttgacga tcatcttatg tataacggag atcgctacaa acgtgttgag 360
tag

```

<210> 5653

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5653

gtccccgaac	gagcgcaacc	cttatecttt	gttgccacgg	gtcaggccgg	gaactcagag	60
gagactgcca	gtgataaaact	ggaggaaact	ggggatgacg	tcaagtcatc	atggccctta	120
cgagtagggc	tacacacgtg	ctacaaatggc	gcatacaaaag	agaagcgacc	tcgcgagagc	180
aagcgagact	cataa					195

<210> 5654

<211> 609

<212> DNA

<213> Enterobacter cloacae

<400> 5654

ccccaaatgt	ctaaaaataa	agctcgcagt	aaagcccttc	atcaaacctt	tagtgaatt	60
attccagaga	tggataaggc	gctaaacaaa	cagctcttag	gaaatataca		120
gaacgtgata	atgaactgat	tgttattttg	aatgaggacg	gcccaaatat	cattgaactt	180
aaagtctctta	agcctgtgtc	tttgttgccc	gaaaagcttt	ctgcttattc	aagctattat	240
catgtgggatg	ttgtggagct	cgtgggtcaag	aaaattgatt	tcgaaggagc	ttataagctt	300
cttaaaagctt	ccccagatgt	accaactttt	aaaagcttaa	ctgaactgga	taaatatott	360
gttgaggagt	ttgaaaaata	cggattaaat	tcatttcttg	acgtggataa	tctgtattac	420
tcacttgaaa	aagccacgtg	actcaaaaat	gagcagttaa	taaattgggt	tcggagactc	480
atttgcaaac	gtgaaaaatt	aactttacgt	aagcgttttg	atgtcgcagt	aaaggcccaac	540
tacgaaaatg	tagaaaaatc	gtatgattct	tcaccacaga	ggggtcgaag	gaccgccgct	600
aagcggatga						609

<210> 5655

<211> 220

<212> DNA

<213> Enterobacter cloacae

<400> 5655

actttgggac	tgagagaagc	tacactgaaa	gaacagtttt	tggtttctgc	ggtctcgtta	60
taccocaaata	octggtttaa	cgagttcccc	aaatggactt	atacctccga	tcaaaccaac	120
ctccccaagt	tggttttttt	tcogtttcca	gaagccagaa	gaattaccaa	tggttacgaa	180
caaggattcc	ctataaagat	ttttttactc	cggaaacagac			220

<210> 5656

<211> 855

<212> DNA

<213> Enterobacter cloacae

<400> 5656

tttcagatca	cgcgcaccaa	cagtcgcagc	tcactgacgg	ttacgcctgc	cgcgtctcag	60
gcgtttgagc	gcocagaagta	cggcattctt	gttactgata	gtctctcagt	cgaaggccctg	120
gcgcagagca	tgtctcaact	catcaacagc	tacgcagaga	acatcgccgc	ctgggagagc	180
ttcgccacca	octcagcaaa	ccagaacatc	accgtccacca	tcaacggcgc	tcgtgttaact	240
attccggcgc	tccggcaaac	ggtccagaaa	gggagcaaat	ggggcggttg	agttttctgc	300
ggcgggagcg	gagcaacgaa	tgccgcgtgac	gctcgcacaa	acctcggttt	aggaagtacg	360
gcgcaataag	acgtcgggac	ggactccggt	aatgtcatgc	aaagtggggc	ttttgggggt	420
ggatcatatc	aggctccaa	gcocaaatgat	gcgaactcat	cgtttatcag	tgatgctgac	480
ggtaaaccca	gtttgggtcc	tgccaaatggc	gttggtctac	aaagctctta	taacactcag	540
cgcatagcgc	aaatgtgggt	taccactggc	ggagctggct	attgcgcttt	tctgttaaac	600
acgaatcctc	aaactgcaaa	aacagatgct	cogtggagcg	tatttcagtc	agcaggaaca	660
tcggacatta	actttaagaa	agtgcacggg	gatctggatc	taaacgaact	cgctgcaaac	720
atcgccgcaa	tggattttta	gaccttctac	taacctgctg	atgaagataa	agtcattcgc	780
cgcggcgcta	ttgctcagga	actggaaaag	atcgatcccc	aggtcttcac	aacgcggctg	840
aagaaagtac	tatgt					855

<210> 5657

<211> 192

<212> DNA

<213> Enterobacter cloacae

```

<400> 5657
gaaggtgcgc tggatcacaa caatcacact attagtttaa tttaacaaca aatgttgata   60
ttattcattc aggtgaatga caggatagag attcactctt atcagcgcgc tggtgataaa   120
cttactttta tcaaaaataa cctattgaat atattttatat ttttcatga agcaattaga   180
cctgaaccat ga                                     192

```

<210> 5658

<211> 216

<212> DNA

<213> Enterobacter cloacae

```

<400> 5658
caaacaggaa ggggatcgga ctgctatctc actgcttcac cagctacaca taactgtgac   60
tcaattggaac aggttgcgtg taagtctctt gacaggctgg tgagtggtca gattaagatt   120
aagcgtggtc tctctgtgaa tggtcactct tcaaaagaga aatataattt gatagctggt   180
ggcatggtga atgtgaaaag ccttgcaggg gggtag                                     216

```

<210> 5659

<211> 297

<212> DNA

<213> Enterobacter cloacae

```

<400> 5659
ccaatctacc ggctggctga caactacaat caaagggcgg tcggcttccc gcagcagacg   60
atgggggatcg ctgcaccagg gcagcgtatg ggcgagcaga caggcatcaa tggatttttc   120
cgcaaacgcgc aaatgcctcg gatccgcttt caactgaacc ggggagccat taagcgatac   180
gctaacctga tgcgagatag cgcagcttct ggtattgatt tctgcgtca gattgccaat   240
cttaagcagg tgaaaaccat tcattttcgc gagccagggt ttaagctgaa gttctaa     297

```

<210> 5660

<211> 237

<212> DNA

<213> Enterobacter cloacae

```

<400> 5660
cacgtttctc taccagggtg tcgttatact ccggtgatcg aaaccgtggc agagccggat   60
tctttccgga tccggttagt cttcccaaca ttacgcctgt ttattctctg tgacctttca   120
caaggtgtag catcatttag cgcgcacga agcgcggaac gtatcgctaa tggttcaagt   180
gatgtgttta gagattccgg caactcttct agcttcaagg gatggcaaaa ttcttaa     237

```

<210> 5661

<211> 210

<212> DNA

<213> Enterobacter cloacae

```

<400> 5661
aaaaaggctg ttaacttagg attgctaagt atacaacaat gtcagatact tagacaatct   60
aagcatccga gcccgatgaa gatgattcag tgcagaaaa aaaccgata ccagaacgac   120
ttaaagaagc gagatgcagg gccggactat cacagcgctc tctggggcta cttattggct   180
ttgatccccc atcggtcagt agtcgtatga                                     210

```

<210> 5662

<211> 579

<212> DNA

<213> Enterobacter cloacae

```

<400> 5662
cagccttttt ttagtgatat gaatagtaga gtaaccaacc ctgagtcgta catattttct   60

```

```

gcaatcatct atattggcaa agataacttc accagtaacg aagtagcgaa aattcttattc 120
ggggcgatttt cacttcgaaa aaattatttta aaggcaaaaag cttttgctta taaccaaatt 180
caaggtctgg ttagaagggg attgttaaat aaagtaagaa aattagggtgc gtatcaatat 240
ttatactcag ccacatctga attcaatgtc gcaaaaggaaa acgtagagtt aattgaggtta 300
tcccaaaaaa gccctgttca acttatttca agtgctacca gttatgaaca tagcaatgta 360
aacattcaaaa taagaactct tattgaaaaa tacagcagcg agttggaaaaa agtatcagga 420
gtaaaggaga tttatgaaga attgataatt gccgtgccga gcagggaataa tgaattcagg 480
aaactttctc tcgaacaaga gaaaaagcaa attaagataa atgaacaaat attcttcacc 540
acgaagctgc aaggatgcc gataaattct atggttcag 579

```

<210> 5663

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 5663

```

Cys Cys Arg Arg Leu Ser Gly Ser Ala Ser Pro Arg Trp Ser Leu Cys
1          5          10          15
Leu Cys Trp Cys Ser Gly Cys Cys Arg Ala Cys Ser Pro Ser Phe Cys
20          25          30
Leu Gly Ser Pro Pro Gly Ala Ser Cys Ser Pro Ala Pro Ser Gly Cys
35          40          45
Ala Phe Ser Cys Arg Phe Cys Phe Ser Ala Pro Ala Ala Ser Cys Phe
50          55          60
Ile Leu Val Val Ala Leu Leu Phe Cys Leu Arg Phe Val Val Phe Pro
65          70          75          80
Val Leu Leu Phe Gly Ser Val Cys Leu Ala Trp Phe Leu Val Phe Ala
85          90          95
Phe Leu Val Ala Leu Trp Met Asp Gln Gly Val Val Ser Trp Leu Arg
100         105         110
His Val Leu Leu Ala Pro Gly Ser His Lys Asn Pro Val Thr Leu Val
115         120         125
Ile Thr Gly Leu Ile Leu Arg Ala Ile Val Trp Ser Val Met Leu Leu
130         135         140

```

<210> 5664

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 5664

```

Ser Arg Thr Arg Gln Glu Arg Lys Ser Lys Thr Asp Arg Lys Lys Arg
1          5          10          15
Asn Arg Lys Glu Gln Gly Ser Lys Thr Pro Gln Glu Glu Asn Pro Asn
20          25          30
Lys Thr Lys Ala Asn Arg Arg Asp Ser Ser Gln Asn Thr Ser Arg Asp
35          40          45
Thr Lys Thr Thr Glu Ala Thr Pro Ile Gln Lys Asp Gly Asp Asn Ile
50          55          60
Ser Thr Lys Lys Thr Asn Arg Asp Lys Asn Arg Thr
65          70          75

```

<210> 5665

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 5665

```

Asn Pro Asn Gln Ser Glu Ala Leu Gly Gly Thr Ile Ala Arg Gly Met
1          5          10          15
Val Asn Thr Gln Thr Gly Gln Glu Glu Lys Lys Val Gly Thr Arg Arg

```

```

      20              25              30
Ile Glu Arg Lys Lys Pro Pro Val Val Thr Gly Ala Glu Glu Lys Ala
  35              40              45
Lys Gly Gln Asn Leu Ala Pro Lys Ala Glu Lys Ser Glu Ser Gly Ser
  50              55              60
Pro Lys Glu Ser Arg Lys Ala Glu Lys Thr Glu Lys Ser Ile Gly Glu
  65              70              75              80
Glu Ala Val Lys Thr Arg Gly Lys Ile Gln Arg Gln Gln Ile Gln Asp
      85              90              95
Gly Gln Lys Ala Ala Ser Gln Val Asn Ala Gln Gln Ala Asn Glu Ile
  100              105              110
Gly Leu Gly Lys Pro Glu Asp Phe Thr Gln Ile His Gln Ala Ala Arg
  115              120              125
Ile Gly Lys Pro His Ile Thr Ser Pro Thr Phe Asn Val Gln Ala Met
  130              135              140
Met Leu Ile Ala Pro Gly Leu His Leu Ala Thr Gly Arg Ile Arg Ala
  145              150              155              160
Tyr Val Ser

```

<210> 5666

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 5666

```

Ser Ser Gly Cys Arg Gln Glu Asn Arg Leu Ser Val Gly Asn Ser Ile
  1              5              10              15
Gly Gln Asp Arg Arg Phe Leu Phe Lys Tyr Met Pro Glu Leu Glu Ser
  20              25              30
Tyr Phe His Tyr Arg Tyr Leu Asp Val Ser Thr Leu Lys Glu Leu Ala
  35              40              45
Arg Arg Trp Lys Pro Glu Ile Phe Asp Gly Phe Thr Lys Gln Gly Thr
  50              55              60
His Gln Ala Met Asp Asp Ile Arg Glu Ser Val Ala Glu Leu Ala Tyr
  65              70              75              80
Tyr Arg Glu Asn Phe Ile Lys Leu
      85

```

<210> 5667

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 5667

```

Pro Ala Thr Ala Gly Tyr Ala Arg Arg Val Glu Asn Asn Met Ser Ala
  1              5              10              15
Asp Glu Asn Asn Leu Ile Trp Ile Asp Leu Glu Met Thr Gly Leu Asp
  20              25              30
Pro Glu Arg Asp Arg Ile Ile Glu Ile Ala Thr Leu Val Thr Asp Ala
  35              40              45
Asn Leu Asn Ile Leu Ala Glu Gly Pro Thr Ile Ala Val His Gln Ser
  50              55              60
Asp Asp Gln Leu Ala Leu Met Asp Glu Trp Asn Val Arg Thr His Thr
  65              70              75              80
Gly Ser Gly Leu Val Glu Arg Val Lys Ala Ser Thr Leu Gly Asp Arg
      85              90              95
Glu Ala Glu Leu Ala Thr Leu Glu Phe Leu Lys Gln Trp Val Pro Ala
  100              105              110
Gly Lys Ser Pro Ile Cys Gly Gln Gln His Trp Ser Gly Ser Ser Phe
  115              120              125

```

Pro Val
130

<210> 5668

<211> 225

<212> PRT

<213> Enterobacter cloacae

<400> 5668

```

Pro Leu Pro Leu Ser Trp Gln Ser Val Val Lys Thr Ser Ala Thr Phe
1      5      10      15
Phe Thr Asn Ile Thr Leu Gly Lys Leu Ser Leu Leu Phe Leu Ala Leu
20      25      30
Gly Val Ala Tyr Ala Ala Ile Arg Arg Thr Leu Leu Ile Val Tyr Pro
35      40      45
Pro Ile Leu Ser Asp Gly Leu Phe Asn Phe Val Val Met Gln Thr Leu
50      55      60
Phe Tyr Ile Pro Phe Phe Leu Ile Gly Ala Leu Ala Phe Ile His Pro
65      70      75      80
Arg Leu Lys Ala Leu Phe Thr Thr Pro Ser Trp Cys Ala Val Gly
85      90      95
Ala Ala Leu Ala Phe Ala Ala Tyr Leu Leu Asn Gln Arg Tyr Gly Ser
100      105      110
Gly Asp Ala Trp Met Tyr Glu Thr Glu Ser Val Ile Thr Met Leu Met
115      120      125
Gly Leu Trp Met Val Asn Val Val Phe Ala Leu Gly His Arg Leu Leu
130      135      140
Asn Phe Lys Ser Ser Arg Val Thr Tyr Phe Val Asn Ala Ser Leu Phe
145      150      155      160
Ile Tyr Leu Val His His Pro Leu Thr Leu Phe Phe Gly Ala Tyr Ile
165      170      175
Thr Pro His Ile Ala Ser Asn Ala Leu Gly Phe Phe Thr Gly Leu Val
180      185      190
Phe Val Val Gly Ile Ala Ile Val Leu Tyr Glu Ile His Leu Arg Ile
195      200      205
Pro Leu Leu Arg Phe Leu Phe Ser Gly Lys Pro Gln Val Lys Ala Gly
210      215      220

```

225

<210> 5669

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 5669

```

Arg Arg Phe Val Pro Val Gly Leu Pro Val Thr Asp Val Leu Phe Ala
1      5      10      15
Ala Val Ile Leu Ile Leu Pro Val Gly Tyr Ile Gly Glu Lys Gly Gly
20      25      30
Leu Gln Arg Val Phe Met Arg Pro Gln Ile Asp Val Ile His Gly Asp
35      40      45
Ile Thr Thr Val Arg Val Asp Val Ile Val Asn Ala Ala Asn Ser Ser
50      55      60
Leu Met Gly Gly Gly Gly Val Asp Gly Ala Ile His Arg Ala Ala Gly
65      70      75      80
Pro Gln Leu Leu Glu Ala Cys Lys Thr Val Arg Gln Gln Gln Gly Glu
85      90      95
Cys Pro Pro Gly His Ala Val Ile Thr Leu Ala Gly Asp Leu Pro Ala
100      105      110
Lys Ala Val Ile His Thr Val Gly Pro Val Trp His Gly Gly Asp Arg

```

115 120 125
 His Glu Ala Glu Ile Leu Glu Gln Ala Tyr Arg Asn Cys Met Arg Leu
 130 135 140
 Ala Ala Asp Asn Gly Tyr Lys Thr Met Ala Phe Pro Ala Ile Ser Thr
 145 150 155 160
 Gly Val Phe Gly Tyr Pro Lys Glu Ala Ala Thr Ile Ala Val Asn
 165 170 175
 Thr Val Tyr Gln Tyr Leu Ser Leu Lys Pro Met Pro Glu Lys Val Ile
 180 185 190
 Phe Val Cys Phe Asp Glu His Thr Ala Asp Leu Tyr Gln Arg Ile Leu
 195 200 205
 Thr Ala Arg Ser Gln Ala Phe
 210 215

<210> 5670

<211> 308

<212> PRT

<213> Enterobacter cloacae

<400> 5670

Ser Pro Cys Ile Ile Ala Thr Leu Phe Ala Pro Glu Pro Ser Asp Val
 1 5 10 15
 Ile Pro Phe Pro Arg Ser Leu Glu Gln Ala Val Ala Ala Pro Phe Arg
 20 25 30
 Asp Phe Phe Gly Arg Asn Asn Ala Trp Leu Ile Leu Leu Ile Val
 35 40 45
 Leu Tyr Lys Leu Gly Asp Ala Phe Ala Met Ser Leu Thr Thr Phe
 50 55 60
 Leu Ile Arg Gly Val Gly Phe Asp Ala Gly Glu Val Gly Val Val Asn
 65 70 75 80
 Lys Thr Leu Gly Leu Phe Ala Thr Ile Val Gly Ala Leu Tyr Gly Gly
 85 90 95
 Val Leu Met Gln Arg Leu Ser Leu Phe Arg Ala Leu Leu Ile Phe Gly
 100 105 110
 Ile Leu Gln Gly Ala Ser Asn Ala Gly Tyr Trp Leu Leu Ser Ile Thr
 115 120 125
 Asp Lys His Met Ile Ser Met Ala Thr Ala Val Phe Phe Glu Asn Leu
 130 135 140
 Cys Gly Gly Met Gly Thr Ala Ala Phe Val Ala Leu Leu Met Thr Leu
 145 150 155 160
 Cys Asn Lys Ser Phe Ser Ala Thr Gln Phe Ala Leu Leu Ser Ala Leu
 165 170 175
 Ser Ala Val Gly Arg Val Tyr Val Gly Pro Val Ala Gly Trp Phe Val
 180 185 190
 Glu Ala His Gly Trp Pro Thr Phe Tyr Leu Phe Ser Val Val Ala Ala
 195 200 205
 Val Pro Gly Ile Leu Leu Leu Val Cys Arg Gln Thr Leu Glu Tyr
 210 215 220
 Thr Gln Arg Thr Glu His Phe Met Pro Arg Thr Glu Tyr Gln Ala Ala
 225 230 235 240
 Tyr Arg Phe Ala Leu Arg Leu Leu Met Ala Gly Cys Leu Ala Leu Val
 245 250 255
 Val Trp Leu Ala Val Leu Ile Ile Asn Ala Thr Thr Thr Ser Leu
 260 265 270
 Pro Phe Glu Thr Gln Leu Leu Asp Ala Gly Val Phe Leu Ala Ile Val
 275 280 285
 Gly Ile Leu Thr Gly Gly Met Leu Asp Phe Met Ser Leu Arg Lys Thr
 290 295 300
 Gln Met Thr
 305

<210> 5671
 <211> 335
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (333)

<400> 5671
 Met Ala Asn Tyr Thr Val Asp Glu Phe Ile Ile Gln Leu Gly Phe Asn
 1 5 10 15
 Glu Thr Val Ser Lys Asn Leu Gln Lys Leu Glu Ser Arg Thr Leu Lys
 20 25 30
 Val Ala Glu Arg Ile Glu Lys Asn Leu Asn Arg Ala Phe Thr Pro Lys
 35 40 45
 Gly Asp Phe Gly Arg Val Ile Ser Ser Ala Asn Asn Ala Ser Lys Gln
 50 55 60
 Ile Asn Arg Ala Phe Ser Lys Ser Met Asn Phe Asp Glu Ala Gly Lys
 65 70 75 80
 Ser Ser Val Lys Ser Val Glu Asn Ala Ala Lys Ala Ser Ala Lys Arg
 85 90 95
 Ile Lys Asp Met Tyr Gln Asp Ala Tyr Gly Ala Lys Gly Lys Gly Arg
 100 105 110
 Ser Asn Pro Pro Ala Ala Gly Lys Pro Gln Gly Arg Gly Ser Asp Leu
 115 120 125
 Thr Ala Ala Asn Ser Ile Arg Ser Leu Ala Asn Thr Gln Phe Tyr Ser
 130 135 140
 Asn Leu Thr Arg Arg Leu Glu Gly Met Gly Ser Thr Gly Gln Ala Arg
 145 150 155 160
 Ala Met Lys Leu Arg Gln Gln Val His Gly Leu Arg Asp Asp Ala Leu
 165 170 175
 Ala Asn Pro Ser Ala Ser Leu Asn Gln Phe Arg Leu Ala Leu Arg Ala
 180 185 190
 Ala Thr Asp Ser Ala Ser Lys Trp Ala Ser Gln Asn Arg Lys Gln Val
 195 200 205
 Ser Asn Ala Glu Gly Leu Ser Ser Ser Phe Gly Arg Leu Val Ser Val
 210 215 220
 Ser Ala Ala Leu Tyr Gly Thr Phe Glu Ala Val Arg Lys Val Val Glu
 225 230 235 240
 Thr Gly Val Ala Arg Glu Gly Val Asn Leu Ser Ala Glu Ala Val Phe
 245 250 255
 Lys Gly Gln Ser Lys Asn Ala Lys Thr Phe Ala Ala Gln Phe Ser Asp
 260 265 270
 Gln Ile Gly Gln Gly Val Thr Glu Thr Leu Lys Gln Tyr Thr Gly Phe
 275 280 285
 Ala Ala Gly Ala Gln Asn Ser Leu Gly Tyr Gln Gly Thr Gln Asp Phe
 290 295 300
 Tyr Lys Asn Ala Ala Val Phe Gly Arg Ile Arg Gly Leu Asp Ala Glu
 305 310 315 320
 Gln Arg Thr Gly Ile Met Ile Phe Thr Ser Arg Ala Xaa Ser
 325 330 335

<210> 5672
 <211> 390
 <212> PRT
 <213> Enterobacter cloacae

<400> 5672
 Asn Lys Leu Asn Ser Gly Ile Arg Arg Val Leu Thr Gly Val Phe Lys
 1 5 10 15

Val Ile Ile Ile Arg Tyr Leu Val Arg Glu Thr Leu Lys Ser Gln Leu
 20 25 30
 Ala Ile Leu Phe Ile Leu Leu Leu Ile Phe Phe Cys Gln Lys Leu Val
 35 40 45
 Arg Ile Leu Gly Ala Ala Val Asp Gly Glu Ile Pro Thr Asn Leu Val
 50 55 60
 Leu Ser Leu Leu Gly Leu Gly Val Pro Glu Met Ala Gln Leu Ile Leu
 65 70 75 80
 Pro Leu Ser Leu Phe Leu Gly Leu Leu Met Thr Leu Gly Lys Leu Tyr
 85 90 95
 Thr Glu Ser Glu Ile Thr Val Met His Ala Cys Gly Leu Ser Lys Ala
 100 105 110
 Val Leu Val Lys Ala Ala Met Val Leu Ala Leu Phe Thr Gly Ile Val
 115 120 125
 Ala Ala Val Asn Val Met Trp Ala Gly Pro Thr Ser Ser Arg His Gln
 130 135 140
 Asp Glu Val Leu Ala Glu Ala Lys Ala Asn Pro Gly Leu Ala Ala Leu
 145 150 155 160
 Ala Gln Gly Gln Phe Gln Gln Ala Thr Asp Gly Asn Ser Val Leu Phe
 165 170 175
 Ile Glu Ser Val Asp Gly Asn Arg Phe Asn Asp Val Phe Leu Ala Gln
 180 185 190
 Leu Arg Pro Lys Gly Asn Ala Arg Pro Ser Val Val Val Ala Asp Ser
 195 200 205
 Gly Gln Leu Ser Gln Arg Lys Asp Gly Ser Gln Val Val Thr Leu Asn
 210 215 220
 Lys Gly Thr Arg Phe Glu Gly Thr Ala Met Leu Arg Asp Phe Arg Ile
 225 230 235 240
 Thr Asp Phe Gln Asn Tyr Gln Ala Ile Ile Val His Gln Ala Val Ala
 245 250 255
 Leu Asp Pro Thr Asp Thr Glu Gln Met Asp Met Arg Thr Leu Met Asn
 260 265 270
 Thr Asp Thr Asp Arg Ala Arg Ala Glu Leu His Trp Arg Ile Thr Leu
 275 280 285
 Val Phe Thr Val Phe Met Met Ala Leu Met Val Val Pro Leu Ser Val
 290 295 300
 Val Asn Pro Arg Gln Gly Arg Val Leu Ser Met Leu Pro Ala Met Leu
 305 310 315 320
 Leu Tyr Leu Val Phe Phe Leu Leu Gln Thr Ser Ile Lys Ser Asn Gly
 325 330 335
 Gly Lys Gly Lys Ile Asp Pro Met Ile Trp Thr Trp Val Val Asn Gly
 340 345 350
 Leu Tyr Leu Leu Leu Ala Val Gly Leu Asn Leu Trp Asp Thr Val Pro
 355 360 365
 Val Arg Arg Leu Arg Ala Arg Phe Thr Arg Lys Gly Ser Ser Pro Arg
 370 375 380
 Gly Gly Arg Thr Ala Ser
 385 390

<210> 5673

<211> 252

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (224)

<400> 5673

Arg Glu Arg Thr Asn Gly Asp Thr Met Thr Leu Pro Ser Phe Ile Asn
 1 5 10 15

Ala Ser Pro Ala Leu Pro Ala Thr Gly Gln Ser Ala Gly Leu Asp Tyr
 20 25 30
 Gly Arg Ala Leu Ser Leu Arg Glu Met Ala Arg His Tyr Thr Glu Leu
 35 40 45
 Pro Lys Tyr Leu Leu Ala Pro Glu Val Ala Gly Leu Leu His Phe Val
 50 55 60
 Gln Asp Trp Gly Gln His Ala Phe Phe Asn Thr Leu Trp Asn Thr Gly
 65 70 75 80
 Ala Arg Leu Asn Glu Gly Leu Ala Leu Arg Arg Asp Phe His Leu
 85 90 95
 Asn Glu Ser Ile Pro His Val Val Leu Arg Thr Ala Lys Gln Arg Arg
 100 105 110
 Ala Gly Gly Arg Pro Arg Lys Gly Lys Ser Ala Asn Arg Val Val
 115 120 125
 Pro Leu Ser Asp Pro Ala Tyr Val Asp Glu Met Arg Arg Leu Phe Ala
 130 135 140
 Ser Thr Lys Glu Gln Phe Glu Asp Asp Pro Ile Thr Gly Glu Arg Arg
 145 150 155 160
 Ala Gln Pro Val Trp Asn Val Ser Asp Arg Thr Val Arg Asn Trp Leu
 165 170 175
 Val Arg Ala Thr Asp Ala Ala Asp Arg Asp Gly Val Arg Leu Ser Ile
 180 185 190
 Asp Val Ser Pro His Thr Phe Arg His Ser Phe Ala Met His Leu Leu
 195 200 205
 Tyr Gly His Val His Pro Lys Val Leu Gln Gly Leu Leu Gly His Xaa
 210 215 220
 Lys Phe Glu Ser Thr Glu Val Tyr Thr Lys Ile Phe Ala Leu Asp Val
 225 230 235 240
 Ala Ala Ser Gln Gln Leu Arg Phe Thr Leu Asp Thr
 245 250

<210> 5674

<211> 317

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (313)

<400> 5674

Asn Ala Thr Gly Lys His Leu Pro Glu Gly Gly Val Cys Ile Leu Pro
 1 5 10 15
 Glu Leu Lys Met Ser Asn Ala Ala Met Lys Leu Asn Glu Thr Ser Ser
 20 25 30
 Asp Ala Tyr Glu Lys Leu Glu Ala Leu Leu Ser Pro Asp Val Ile Lys
 35 40 45
 Leu Lys His Tyr Val Asp Lys Gly Glu Tyr Leu Leu Val Leu Ala Lys
 50 55 60
 Asp Leu Phe Gly Ile Pro Glu Met Asp Pro Lys Met Ala Val Pro Val
 65 70 75 80
 Phe Lys Thr Lys Thr Ser Tyr Arg Ala Pro Leu Asn Lys Asp Tyr Ile
 85 90 95
 Pro Asn Pro Arg Ile Leu Glu Gln Val Val Lys Leu Leu Ile Ser Pro
 100 105 110
 Asp Ile Asp Leu Ser Val Cys Leu Lys Gly Glu Ser Gly Ser Gly Lys
 115 120 125
 Thr Glu Met Val Met Tyr Ile Ser His Met Met Asn Trp Pro Leu Thr
 130 135 140
 Ile Lys Gln Ile Asn Ser Asn Ile Arg Val Asp Glu Leu Glu Gly Glu
 145 150 155 160

Arg Ser Leu Asn Gly Gly Asn Thr Gly Phe Val His Ser Asp Leu Val
 165 170 175
 Thr Gly Phe Arg Asn Gly His Leu Ile Leu Leu Asp Glu Val Asp Lys
 180 185 190
 Ile Asp Pro Asp Thr Ala Ala Lys Leu His Met Pro Ile Glu Arg Lys
 195 200 205
 Pro Trp Ser Leu Ser Ala Asn Gly Gly Glu Val Ile Thr Ala Asn Gly
 210 215 220
 Tyr Thr Arg Phe Ile Gly Thr Ala Asn Thr Asn Met Ser Gly Gly Ala
 225 230 235 240
 Arg Arg Phe Val Ser Ser Gln Arg Gln Asp Ala Ala Phe Ile Lys Arg
 245 250 255
 Phe Leu Ile Val Glu Met Glu Lys Pro Asp Lys Val Ala Leu Thr Asn
 260 265 270
 Val Leu Thr Lys Arg Tyr Ser Ser Leu Pro Phe Gln Val Ile Glu Lys
 275 280 285
 Phe Val Arg Val Ala Ile Ala Val Asn Asp Ser Gly Thr Glu Asp Ser
 290 295 300
 Val Met Asp Ile Arg Gln Leu Val Xaa Trp Val Gly Thr
 305 310 315

<210> 5675

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 5675

Val Leu Glu Val Lys Thr Ala Gln Met Gly His Glu Ser Thr Arg Phe
 1 5 10 15
 Thr Arg Leu Val Glu Asn Leu Asn Tyr Ala Val Glu Asn Leu Val Pro
 20 25 30
 Thr Phe Gly Ser His Arg Ile Thr Gln Gln Gln Ser Ala Ala Leu Gly
 35 40 45
 Arg Thr Ala Thr Gln Pro Ala Asn Gln Lys Ala Ile Ala Asn Leu Val
 50 55 60
 Tyr Gly Gly Glu Trp Gly Lys Glu His Leu Gly Asn Gln Val Ala Gly
 65 70 75 80
 Asp Gly Trp Lys Tyr Arg Gly Arg Gly Leu Lys Gln Ile Thr Gly Leu
 85 90 95
 Ser Asn Tyr Arg Ser Cys Gly Gln Ala Leu Lys Leu Asp Leu Val Thr
 100 105 110
 His Pro Glu Leu Leu Glu Lys Asp Glu Tyr Ala Ala Arg Ser Ala Ala
 115 120 125
 Trp Phe Tyr Ala Ser Arg Gly Cys Leu Leu His Ser Gly Asp Val Glu
 130 135 140
 Arg Val Thr Leu Leu Ile Asn Gly Gly Arg Asn Gly Leu Asp Lys Arg
 145 150 155 160
 Arg Ala Leu Phe Asn Leu Ala Lys Ser Val Leu Val
 165 170

<210> 5676

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 5676

Trp Arg Asn Cys Val Arg Ile Glu Thr Ser Leu Phe Thr Thr Pro Glu
 1 5 10 15
 Cys Met Lys Ala Ile Thr Leu Tyr Asp Val Ala Arg Val Ala Gly Val
 20 25 30
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

```

          35              40              45
Lys Lys Lys Lys Lys Lys Val Arg Gln Ala Met Ala Ala Leu His Tyr
  50              55              60
Val Pro Asn Arg Gly Ala Gln Gln Leu Ala Gly Lys Arg Thr Arg Thr
  65              70              75              80
Leu Gly Leu Met Thr Ser Asp Leu Ala Leu His Ala Pro Ser Gln Ile
          85              90              95
Ala Ser Ala Val Lys Ser Arg Leu His His Gly Ala Gly Arg Phe Arg
          100              105              110
Ala Lys Arg
          115

```

<210> 5677

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 5677

```

Phe Pro Glu Leu Thr Ser Leu Pro Val Arg Ile Thr Leu Met Val Ser
  1              5              10              15
Gly Ile Val Val Asn Ala Leu Ala Thr Gly Met Tyr Ile Gly Ala Gly
          20              25              30
Phe Gly Ala Gly Pro Arg Asp Gly Leu Met Thr Gly Ile His Ala Arg
          35              40              45
Leu Gly Trp Ser Ile Arg Ser Val Arg Thr Ala Ile Glu Val Thr Val
          50              55              60
Leu Ile Val Gly Tyr Leu Leu Gly Gly Ala Phe Gly Val Gly Thr Val
  65              70              75              80
Leu Tyr Ala Leu Thr Ile Gly Pro Leu Ile Gln Leu Cys Leu Pro Trp
          85              90              95
Phe Arg Gln Arg Pro Arg Ile Gln Lys Ala Ala Gln Pro Glu Arg Ile
          100              105              110
Val

```

<210> 5678

<211> 370

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (341)

<400> 5678

```

Ser Leu His Ile Cys Val Lys Val Gly Phe Gln Cys Lys Lys Val Ile
  1              5              10              15
Thr Met Asn Leu Leu Glu Lys Ile Ala Leu Val Gly Gln Arg Met Lys
          20              25              30
Ser Glu Gln Ile Ser Leu Lys Glu Ser Leu Met Ala Ser Ser Arg Val
          35              40              45
Ser Val Ser Asp Asp Ser Val Asp Gly Val Asp Arg Leu Ile Tyr Asn
          50              55              60
His Cys Leu Asn Lys Lys Asn Leu Ser Asp Phe Phe Gly Lys Ser Arg
  65              70              75              80
Val Thr Phe Asn Lys Ile Leu Ser Asp Leu Glu Lys Glu Leu Val
          85              90              95
Gly Ala Pro Ile Tyr Gln Asn Lys Asn His Leu Tyr Thr Arg Trp Asp
          100              105              110
Val Gln Lys Ile Met Asp Ala Leu Gly Tyr Pro Lys Tyr Arg Asp His
          115              120              125

```

Tyr Phe Ser Arg Ala Ile Val Thr Gln Asn His Lys Gly Gly Thr Gly
 130 135 140
 Lys Ser Thr Thr Ser Val Ala Leu Ala Val Ala Ala Leu Asp Leu
 145 150 155 160
 Gln Leu Asn Ala Arg Val Leu Met Ile Glu Trp Asp Pro Gln Gly Ser
 165 170 175
 Ile Gly Ser Ser Met Ile Gln Ser Val Ser Glu Asp Asp Val Phe Leu
 180 185 190
 Thr Ala Ile Asp Ala Ile Leu Gly Ile Tyr Glu Glu Asn Ser Glu Tyr
 195 200 205
 Lys Lys Tyr Leu Asp Ser Gly Phe Ser Glu Glu Glu Ile Ile Thr Asn
 210 215 220
 Met Pro Phe Ser Thr His Leu Pro Asn Leu Asp Val Ile Thr Ala Phe
 225 230 235 240
 Pro Thr Asp Ala Arg Phe Lys Asp Lys Tyr Trp Gln Cys Ser Arg Glu
 245 250 255
 Glu Arg Thr Ser Leu Leu Leu Arg Phe Lys Glu Val Ile Leu Pro Val
 260 265 270
 Leu Lys Gln Asn Tyr Asp Leu Ile Ile Ile Asp Thr Pro Glu Asp
 275 280 285
 Ser Pro Leu Ile Trp Ala Ala Asp Glu Ala Ala Asp Gly Ile Leu Val
 290 295 300
 Ala Val Ser Pro Arg Glu Tyr Asp Tyr Ala Ser Thr Thr Asp Phe Met
 305 310 315 320
 Leu Thr Ile Ser Glu Arg Cys Lys Gln Ser Pro Ser Lys Gly Asp Asn
 325 330 335
 Leu Lys Trp Phe Xaa Val Leu Ala Val Asn Val Asn Asp Lys Ser Pro
 340 345 350
 Tyr Glu Arg Ile Val Leu Asp Lys Leu Ile Lys Thr Val Gln Gly Pro
 355 360 365
 Phe
 370

<210> 5679

<211> 352

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (344)

<400> 5679

Arg Leu Leu Asp Pro Gly Asn Phe Ala Thr Asn Ile Gln Ala Gly Ala
 1 5 10 15
 Ser Phe Gly Tyr Lys Leu Leu Trp Val Val Val Trp Ala Asn Leu Met
 20 25 30
 Ala Met Leu Ile Gln Met Leu Ser Ala Lys Leu Gly Ile Ala Thr Gly
 35 40 45
 Lys Asn Leu Ala Glu Gln Ile Arg Asp His Tyr Pro Arg Pro Ala Val
 50 55 60
 Trp Phe Tyr Trp Val Gln Ala Glu Ile Ile Ala Met Ala Thr Asp Leu
 65 70 75 80
 Ala Glu Phe Ile Gly Ala Ala Ile Gly Phe Lys Leu Ile Leu Gly Val
 85 90 95
 Ser Leu Leu Gln Gly Ala Val Leu Thr Gly Ile Ala Thr Phe Leu Ile
 100 105 110
 Leu Met Leu Gln Arg Arg Gly Gln Lys Pro Leu Glu Lys Val Ile Gly
 115 120 125
 Gly Leu Leu Leu Phe Val Ala Ala Tyr Ile Val Glu Leu Ile Phe
 130 135 140

Ser Gln Pro Asn Leu Ala Gln Leu Thr Lys Gly Met Val Ile Pro Ser
 145 150 155 160
 Leu Pro Thr Ser Glu Ala Val Phe Leu Ala Ala Gly Val Leu Gly Ala
 165 170 175
 Thr Ile Met Pro His Val Ile Tyr Leu His Ser Ser Leu Thr Gln Asn
 180 185 190
 Leu His Gly Gly Thr Ser Lys Glu Arg Tyr Ser Ala Ser Lys Trp Asp
 195 200 205
 Val Ala Ile Ala Met Thr Ile Ala Gly Phe Val Asn Leu Ala Met Met
 210 215 220
 Ala Thr Ala Ala Ala Phe His Phe Asn Gly His Thr Gly Val Ala
 225 230 235 240
 Asp Leu Asp Gln Ala Tyr Leu Thr Leu Glu Pro Leu Leu Ser His Ala
 245 250 255
 Ala Ala Thr Ile Phe Gly Leu Ser Leu Val Ala Ala Gly Leu Ser Ser
 260 265 270
 Thr Val Val Gly Thr Leu Ala Gly Gln Val Val Met Gln Gly Phe Val
 275 280 285
 Arg Phe His Ile Pro Leu Trp Val Arg Arg Ser Val Thr Met Leu Pro
 290 295 300
 Ser Phe Val Val Ile Leu Met Gly Leu Asp Pro Thr Arg Ile Leu Val
 305 310 315 320
 Met Ser Gln Val Leu Leu Ser Phe Gly Ile Ala Leu Ala Leu Val Pro
 325 330 335
 Leu Leu Ile Phe Asp Val Ile Xaa Pro Gly Met Glu Gly Ser Ala Leu
 340 345 350

<210> 5680

<211> 357

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (354)

<400> 5680

Thr Asp Glu Arg Ile Leu Thr Met Ser Asn Val Phe Tyr Met Pro Pro
 1 5 10 15
 Val Thr Leu Met Gly Leu Asn Ala Ile Arg Leu Leu Gly Asp Glu Leu
 20 25 30
 Val Ser Arg Glu Leu Lys Lys Ala Leu Ile Val Thr Asp Arg Val Leu
 35 40 45
 Ala Asp Thr Gly Leu Val Asn Lys Leu Thr Asp Glu Leu Glu Ala His
 50 55 60
 Lys Ile Ser Tyr Ala Ile Phe Asp Gly Val Gln Pro Asn Pro Thr Glu
 65 70 75 80
 Lys Asn Ile Asp Asp Gly Leu Ala Leu Leu Ala Lys Ser Asn Ala Asp
 85 90 95
 Phe Val Ile Ser Phe Gly Gly Gly Ser Ser His Asp Thr Ala Lys Gly
 100 105 110
 Ile Ala Leu Val Ala Thr Asn Gly Gly His Ile Arg Asp Tyr Ser Lys
 115 120 125
 Gly Val His Leu Ser Lys Lys Pro Gln Leu Pro Leu Val Thr Val Asn
 130 135 140
 Thr Thr Ala Gly Thr Ala Ser Glu Met Thr Val Phe Ala Ile Val Thr
 145 150 155 160
 Asn Gln Glu Asp Glu Thr Lys Tyr Pro Val Val Asp Lys His Phe Thr
 165 170 175
 Pro Ile Ile Ala Val Asn Asp Ser Glu Leu Met Val Ala Met Pro Ala
 180 185 190

Phe Leu Thr Ala Thr Thr Gly Met Asp Ala Leu Thr His Ala Ile Glu
 195 200 205
 Ala Tyr Val Ser Thr Ala Ala Thr Pro Val Thr Asp Ala Cys Ala Ile
 210 215 220
 Lys Ala Ile Glu Ile Ile Val Asn Asn Leu Lys Asp Val Val Asp Asp
 225 230 235 240
 Gly Gln Asn Arg Glu Ala Arg Asp Ala Met Gln Tyr Gly Glu Tyr Leu
 245 250 255
 Ala Gly Met Ala Phe Ser Asn Ala Ser Leu Gly Tyr Val His Ser Met
 260 265 270
 Ala His Gln Leu Gly Gly Val Tyr Asn Leu Ser His Gly Leu Cys Asn
 275 280 285
 Ala Ile Leu Leu Gly Glu Val Ser Arg Phe Asn Ala Lys Lys Val Pro
 290 295 300
 Asp Arg Phe Val Glu Ile Ala Arg Ala Met Gly Ile Asp Val Ser Thr
 305 310 315 320
 Met Thr Gln Glu Gln Ala Ile Asn Ser Ala Ile Glu Ala Ile Glu Met
 325 330 335
 Leu Ser Gln Lys Val Gly Thr Asn Gln Arg Leu Ala Asp Arg Ala Ser
 340 345 350
 Arg Xaa Ser Pro
 355

<210> 5681

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 5681

Gly Pro Lys Asp Leu Phe Pro Gln Lys Cys Asp Arg Val Met Ile Asp
 1 5 10 15
 Ala Ser Ser Val Val Ile Gly Asp Val Arg Met Ala Asp Asp Val Ser
 20 25 30
 Ile Trp Pro Leu Val Ala Ile Arg Gly Asp Val Asn Tyr Val Ala Ile
 35 40 45
 Gly Ala Arg Thr Asn Ile Gln Asp Gly Ser Val Leu His Val Thr His
 50 55 60
 Lys Ser Ser Tyr Asn Pro Glu Gly Asn Pro Leu Ile Ile Gly Glu Asp
 65 70 75 80
 Val Thr Val Gly His Lys Val Met Leu His Gly Cys Thr Ile Gly Asn
 85 90 95
 Arg Val Leu Val Gly Met Gly Ser Ile Leu Leu Asp Gly Val Ile Val
 100 105 110
 Glu Asp Asp Val Met Ile Gly Ala Gly Ser Leu Val Pro Gln Asn Lys
 115 120 125
 Arg Leu Glu Ser Gly Tyr Leu Tyr Leu Gly Ser Pro Ile Lys Gln Ile
 130 135 140
 Arg Pro Leu Lys Glu Ala Glu Ile Glu Gly Leu Lys Tyr Ser Ala Asn
 145 150 155 160
 Asn Tyr Val Lys Trp Lys Asn Asp Tyr Leu Asp Gln Asp Asn Gln Thr
 165 170 175
 Gln Pro

<210> 5682

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 5682

Asn Ile Tyr Ala Tyr Asp Met Phe Tyr Gln Lys Gly Lys Thr Pro Phe

```

1           5           10           15
Leu Thr Trp Cys Glu Gln Gln Gly Ala Lys His Val Ala Asp Gly Leu
                20           25           30
Gly Met Leu Val Gly Gln Ala Ala His Ala Val Leu Leu Trp His Gly
                35           40           45
Val Leu Pro Ala Val Glu Pro Val Ile Glu Lys Leu Lys Lys Glu Leu
                50           55           60
Met Val
65

```

```

<210> 5683
<211> 119
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 5683
Trp Ser Gly His Ala Gly Gly Ala Gly Ser Cys Gly Ala Thr Leu
1           5           10           15
Ala Trp Arg Val Thr Cys Cys Arg Thr Gly Asp Arg Lys Ala Glu Lys
                20           25           30
Gly Thr Asp Gly Met Asn Gln Ala Ile His Phe Pro Asp Arg Glu Ile
                35           40           45
Trp Asp Glu Asn Lys Gln Ala Val Cys Phe Pro Val Leu Val His Gly
                50           55           60
Met Gln Leu Thr Cys Ala Ile Lys Gly Glu Thr Leu Leu Gln Arg Phe
                65           70           75           80
Gly Gly Ser Asp Pro Leu Ala Val Phe Cys Glu Asn Arg Trp Asp Leu
                85           90           95
Glu Glu Glu Ala Ser Asp Leu Ile Arg Val Gln Gln Glu Asp Asp Gln
                100           105           110
Gly Trp Val Trp Leu Ser
                115

```

```

<210> 5684
<211> 66
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 5684
Ser Thr His Tyr Ala Gln Arg Lys Leu Gly Gly Arg Trp Gln Leu Arg
1           5           10           15
Gln Asn Phe Val Tyr Leu Val Ala Ile Phe Ala His Ile His Asn Leu
                20           25           30
Trp Ser Val Lys Ile Leu Ser Pro Gln Pro Val Ile Tyr Ala Leu Met
                35           40           45
Ala Leu Ala Leu Leu Ala Trp Arg Tyr Lys Lys Phe Arg Gln Trp Leu
                50           55           60
Arg
65

```

```

<210> 5685
<211> 174
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 5685
Lys Gly Asp Asn Cys Ala Leu Arg Val Tyr Val Val Phe Tyr Pro Lys
1           5           10           15
Ile Ala Gly Asp Ser Gly Ile Met Ala Asp Lys Phe Gln Ile Leu Val
                20           25           30
Leu Asn Gly Pro Asn Leu Asn Met Leu Gly Thr Arg Glu Pro Glu Lys

```

```

      35              40              45
Tyr Gly Thr Leu Thr Leu Ser Glu Ile Val Asn Arg Leu Ser Thr Glu
50              55              60
Ala Ala Ser Leu Asn Val Asp Leu Asp His Phe Gln Ser Asn Ala Glu
65              70              75              80
Tyr Ala Ile Ile Asp Arg Ile His Gln Ala Lys Asp Thr Val Asp Tyr
85              90              95
Ile Leu Ile Asn Pro Ala Ala Phe Thr His Thr Ser Val Ala Ile Arg
100              105              110
Asp Ala Leu Leu Ala Val Ser Ile Pro Phe Ile Glu Ile His Leu Ser
115              120              125
Asn Val His Ala Arg Glu Pro Phe Arg His His Ser Tyr Leu Ser Asp
130              135              140
Ile Ala Ala Gly Val Ile Cys Gly Leu Gly Ala Asp Gly Tyr Ser Tyr
145              150              155              160
Ala Leu Gln Thr Ala Val Lys Arg Leu Ser Gln Ser His
165              170

```

<210> 5686

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 5686

```

Gln Arg His Thr Pro Ala Ala Lys Asn Trp His Pro Tyr Cys Lys Thr
1              5              10              15
Cys Leu Thr Thr Gln Pro Leu Pro Ala Arg Tyr Phe Arg Thr Gly Gly
20              25              30
Asn Met Asn Leu Arg Arg Leu Lys Tyr Phe Val Lys Ile Val Asp Ile
35              40              45
Gly Ser Leu Thr Gln Ala Ala Glu Val Leu His Ile Ala Gln Pro Ala
50              55              60
Leu Ser Gln Gln Val Ala Thr Leu Glu Gly Glu Met Asp Gln Gln Leu
65              70              75              80
Leu Ile Arg Thr Lys Arg Gly Val Thr Pro Thr Glu Ala Gly Lys Ile
85              90              95
Leu Tyr Thr His Ala Arg Thr Ile Leu Arg Gln Cys Glu Gln Ala Gln
100              105              110
Leu Ala Val His Asn Val Gly Gln Thr Leu Ser Gly His Val Ser Ile
115              120              125
Gly Leu Ala Pro Gly Thr Ala Ala Ser Ser Val Thr Met Pro Leu Leu
130              135              140
Gln Ala Val Arg Ala Glu Leu Pro Glu Val Leu Val Tyr Leu His Glu
145              150              155              160
Asn Ser Gly Ser Val Leu Asn Asp Lys Leu Leu Asn Gly Gln Leu Asp
165              170              175
Met Gly Gly Ala Val Arg Ser Leu Pro Gly Cys Arg Asp His Gln Pro
180              185              190
Ala Ala Ala Glu
195

```

<210> 5687

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 5687

```

Leu Ile Asp Gln Pro Val Lys Val Thr Thr Glu Pro Asp Gly Ser Arg
1              5              10              15
Trp Val Glu Val His Glu Pro Leu Ser Arg Asn Arg Ala Glu Phe Glu
20              25              30

```

Ser Thr Asn Lys Val Pro Leu Pro Ile Ser Ala Ala Gln Arg Thr Gln
 35 40 45
 Leu Ile Ser Glu Gly Ala Gly Ala Glu Leu Glu Arg Arg Ser Gly Met
 50 55 60
 Pro Val Lys Leu Ala Met Thr Gly Ser Ala Ser Leu Ala Gly Pro
 65 70 75 80

<210> 5688

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 5688

Pro Cys Arg Cys Phe Arg Arg Cys Glu Gln Ser Tyr Arg Lys Cys Trp
 1 5 10 15
 Phe Ile Cys Met Arg Thr Val Val Pro Cys Ser Met Thr Asn Cys Ser
 20 25 30
 Thr Val Ser Trp Ile Trp Ala Val Leu Tyr Asp Arg Ser Pro Val Ala
 35 40 45
 Gly Ile Thr Ser Gln Pro Leu Leu Asn Glu Asp Leu Tyr Leu Val Gly
 50 55 60
 Thr Arg Asp Cys Pro Gly Gln Ser Ile Asp Leu Thr Ala Val Ala Gln
 65 70 75 80
 Met Asn Leu Phe Leu Ala Arg Asp Tyr Ser Ala Leu Arg Leu Arg Phe
 85 90 95
 Asp Glu Thr Pro Ser Leu Arg Pro Leu Asn Ala Asn Asn Phe Leu Leu
 100 105 110
 Glu

<210> 5689

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 5689

Pro Val Tyr Thr Pro Leu Ala Leu Arg Asp Trp Phe Arg Ala Ala Pro
 1 5 10 15
 Arg Asn Pro Leu Lys Pro Leu Pro Arg Leu Arg Leu Val Gln His Arg
 20 25 30
 Ala Asp Arg Glu Lys Ile Ser Arg Pro Ser Arg Arg Tyr Gln Glu Ala
 35 40 45
 Gly Leu Ala Asp Lys Arg Ser Lys Met Leu Thr Met Trp Val Thr Glu
 50 55 60
 Asp Glu His Arg Arg Leu Leu Glu Arg Cys Glu Gly Lys Gln Leu Ala
 65 70 75 80
 Ala Trp Met Arg Gln Thr Cys Leu Asp Glu Lys Pro Ala Arg Ala Gly
 85 90 95
 Lys Leu Pro Ser Ile Ser Pro Ala Leu Leu Arg Gln Leu Ala Gly Met
 100 105 110
 Gly Asn Asn Leu Asn Gln Ile Ala Arg Gln Val Asn Ala Gly Gly Gly
 115 120 125
 Ser Gly His Asp Arg Val Gln Ile Val Ala Ala Leu Met Ala Ile Asp
 130 135 140
 Ala Gly Leu Glu Arg Leu Arg His Ala Val Leu Glu Lys Gly Ala Asp
 145 150 155 160
 Asp Asp Arg

<210> 5690

<211> 232

<212> PRT

<213> *Enterobacter cloacae*

<400> 5690

```

Trp Pro Ser Met Pro Asp Ser Ser Gly Cys Gly Met Pro Tyr Trp Lys
1      5      10      15
Arg Val Leu Met Met Ile Val Lys Phe His Pro Arg Gly Arg Gly Gly
20      25      30
Gly Gly Gly Pro Val Asp Tyr Leu Leu Gly Lys Asp Arg Gln Arg Asp
35      40      45
Gly Ala Ser Val Leu Gln Gly Lys Pro Asp Glu Val Arg Glu Leu Ile
50      55      60
Asp Ala Ser Pro Tyr Ala Lys Lys Tyr Thr Ser Gly Val Leu Ser Phe
65      70      75      80
Ala Glu Gln Asp Leu Pro Pro Gly Gln Arg Glu Lys Leu Met Ala Ser
85      90      95
Phe Glu Arg Val Leu Met Pro Gly Leu Asp Lys Asp Gln Tyr Ser Val
100      105      110
Leu Trp Val Glu His Arg Asp Lys Gly Arg Leu Glu Leu Asn Phe Leu
115      120      125
Ile Pro Asn Thr Glu Leu Leu Thr Gly Lys Arg Ile Gln Pro Tyr Tyr
130      135      140
Asp Arg Ala Asp Arg Pro Arg Ile Asp Ala Trp Gln Thr Ile Val Asn
145      150      155      160
Gly Arg Leu Gly Leu His Asp Pro Asn Ala Pro Glu Asn Arg Arg Val
165      170      175
Leu Val Ser Pro Ser Ala Leu Pro Glu Ala Lys Gln Glu Ala Ala Gln
180      185      190
Ala Ile Thr Ser Gly Leu Leu Ala Leu Ala Ser Ser Gly Glu Leu Lys
195      200      205
Thr Arg Gln Asp Val Thr Glu Ala Leu Glu Ser Ala Gly Phe Glu Val
210      215      220
Val Arg Thr Thr Gln Gly Arg Ile
225      230

```

<210> 5691

<211> 464

<212> PRT

<213> *Enterobacter cloacae*

<400> 5691

```

Arg Met Ala Gly Asn Ile Asp Ile Pro Pro Ile Arg Ala Asp Lys Cys
1      5      10      15
Leu Phe Phe Pro Thr Ile Asn Arg Glu Asn Ile Met Ser Val Val Pro
20      25      30
Val Ala Asp Val Leu Gln Gly Arg Val Ala Val Asp Gln Glu Val Thr
35      40      45
Val Arg Gly Trp Val Arg Thr Arg Arg Asp Ser Lys Ala Gly Ile Ser
50      55      60
Phe Leu Ala Val Tyr Asp Gly Ser Cys Phe Asp Pro Val Gln Ala Val
65      70      75      80
Ile Asn Asn Ser Leu Pro Asn Tyr Asn Asp Asp Val Leu His Leu Thr
85      90      95
Thr Gly Cys Ser Val Ile Val Thr Gly Val Val Val Ala Ser Pro Gly
100      105      110
Gln Gly Gln Ser Tyr Glu Ile Gln Ala Thr Ser Val Glu Val Thr Gly
115      120      125
Trp Val Glu Asp Pro Asp Thr Tyr Pro Met Ala Ala Lys Arg His Ser
130      135      140
Ile Glu Tyr Leu Arg Glu Val Ala Gln Leu Arg Pro Arg Thr Asn Leu
145      150      155      160

```

Ile Gly Ala Val Ala Arg Val Arg His Thr Leu Ala Gln Ala Leu His
 165 170 175
 Arg Phe Phe Asp Glu Gln Gly Tyr Phe Trp Val Ser Thr Pro Leu Ile
 180 185 190
 Thr Ala Ser Asp Thr Glu Gly Ala Gly Glu Met Phe Arg Val Ser Thr
 195 200 205
 Leu Asp Met Glu Asn Leu Pro Arg Thr Pro Glu Gly Lys Val Asp Tyr
 210 215 220
 Asp Lys Asp Phe Phe Gly Lys Glu Ala Phe Leu Thr Val Ser Gly Gln
 225 230 235 240
 Leu Asn Gly Glu Thr Tyr Ala Cys Ala Leu Ser Lys Ile Tyr Thr Phe
 245 250 255
 Gly Pro Thr Phe Arg Ala Glu Asn Ser Asn Thr Ser Arg His Leu Ala
 260 265 270
 Glu Phe Trp Met Leu Glu Pro Glu Val Ala Phe Ala Asp Leu Asn Asp
 275 280 285
 Val Ala Gly Leu Ala Glu Ala Met Leu Lys Tyr Val Phe Lys Ala Val
 290 295 300
 Leu Glu Glu Arg Ala Asp Asp Met Lys Phe Phe Ala Glu Arg Val Asp
 305 310 315 320
 Asn Asp Ala Ile Ala Arg Leu Glu Arg Phe Val Ser Ala Asp Phe Ala
 325 330 335
 Gln Val Asp Tyr Thr Asp Ala Val Ala Ile Leu Glu Lys Cys Gly Glu
 340 345 350
 Lys Phe Glu Asn Pro Val Tyr Trp Gly Val Asp Leu Ser Ser Glu His
 355 360 365
 Glu Arg Tyr Leu Ala Glu Lys His Phe Lys Ala Pro Val Val Val Lys
 370 375 380
 Asn Tyr Pro Lys Asp Ile Lys Ala Phe Tyr Met Arg Leu Asn Glu Asp
 385 390 395 400
 Gly Lys Thr Val Ala Ala Met Asp Val Leu Ala Pro Gly Ile Gly Glu
 405 410 415
 Ile Ile Gly Gly Ser Gln Arg Glu Glu Arg Leu Asp Val Leu Asp Ala
 420 425 430
 Arg Met Gln Glu Met Gly Leu Asn Pro Ala Asp Tyr Ser Trp Tyr Arg
 435 440 445
 Asp Leu Ser Ser Pro Thr Gly Ala Gly Arg Ile Arg Ala Tyr Leu Thr
 450 455 460

<210> 5692

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 5692

Thr Thr Val Leu Pro Ala Gly Leu Gly Glu Asn Asn Thr Ile Ser Gly
 1 5 10 15
 Leu Leu Phe Leu Trp Val Pro Thr Arg Lys Thr Asn Phe Ile His Gly
 20 25 30
 Glu Pro Leu Arg Gly Val Ile Thr Gln Ser Glu Asp Phe Arg Met Ala
 35 40 45
 Lys Lys Val Gln Ala Tyr Val Lys Leu Gln Val Ala Ala Gly Met Ala
 50 55 60
 Asn Pro Ser Pro Pro Val Gly Pro Ala Leu Gly Gln Gln Gly Val Asn
 65 70 75 80
 Ile Met Glu Phe Cys Lys Ala Phe Asn Ala Lys Thr Glu Ser Met Glu
 85 90 95
 Lys Gly Leu Pro Ile Pro Val Val Ile Thr Val Tyr Ala Asp Arg Ser
 100 105 110
 Phe Thr Phe Val Thr Lys Thr Pro Pro Ala Ala Val Leu Lys Lys
 115 120 125

Ala Ala Gly Ile Lys Ser Gly Ser Gly Lys Pro Asn Lys Asp Lys Val
 130 135 140
 Gly Lys Ile Ser Arg Ala Gln Leu Gln Glu Ile Ala Gln Thr Lys Ala
 145 150 155 160
 Ala Asp Met Thr Gly Ser Asp Ile Glu Ala Met Thr Arg Ser Ile Glu
 165 170 175
 Gly Thr Ala Arg Ser Met Gly Leu Val Val Glu Asp
 180 185

<210> 5693

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 5693

Glu Met Ala Lys Leu Thr Lys Arg Met Ser Val Ile Arg Asp Lys Val
 1 5 10 15
 Asp Ala Thr Lys Gln Tyr Asp Ile Asn Glu Ala Ile Ala Leu Leu Lys
 20 25 30
 Glu Leu Ala Thr Ala Lys Phe Val Glu Ser Val Asp Val Ala Val Asn
 35 40 45
 Leu Gly Ile Asp Ala Arg Lys Ser Asp Gln Asn Val Arg Gly Ala Thr
 50 55 60
 Val Leu Pro His Gly Thr Gly Arg Ser Val Arg Val Thr Val Phe Ala
 65 70 75 80
 Gln Gly Ala Asn Ala Glu Ser Ala Lys Ala Ala Gly Ala Glu Leu Val
 85 90 95
 Gly Met Glu Asp Leu Ala Asp Gln Ile Lys Lys Gly Glu Met Asn Phe
 100 105 110
 Asp Val Val Ile Ala Ser Pro Asp Ala Met Arg Val Val Gly Gln Leu
 115 120 125
 Gly Gln Val Leu Gly Pro Arg Gly Leu Met Pro Asn Pro Lys Val Gly
 130 135 140
 Thr Val Thr Pro Asn Val Ala Glu Ala Val Lys Asn Ala Lys Ala Gly
 145 150 155 160
 Gln Val Arg Tyr Arg Asn Asp Lys Asn Gly Ile Ile His Thr Thr Ile
 165 170 175
 Gly Lys Val Asp Phe Asp Ala Asp Lys Leu Lys Glu Asn Leu Glu Ala
 180 185 190
 Leu Leu Val Ala Leu Lys Lys Ala Lys Pro Thr Gln Ala Lys Gly Val
 195 200 205
 Tyr Ile Lys Lys Val Ser Ile Ser Thr Thr Met Gly Ala Gly Val Ala
 210 215 220
 Val Asp Gln Ala Gly Leu Ser Ala Ala Ala Asn
 225 230 235

<210> 5694

<211> 105

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (98)

<400> 5694

Ser Glu Phe Arg Asn Met Ser Ser Gly Lys His Pro Gly Ala Lys Leu
 1 5 10 15
 Met Ala Leu Asn Leu Gln Asp Lys Gln Ala Ile Val Ala Glu Val Ser
 20 25 30
 Glu Val Ala Lys Gly Ala Leu Ser Ala Val Val Ala Asp Ser Arg Gly

```
<210> 5695
<211> 128
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5696
<211> 200
<212> PRT
<213> Enterobacter cloacae
```

400> 5696																	
Gln	Arg	Asn	Tyr		Gln	Val	Ile	Trp	Ser	Ser	Thr	Met	Ala	Lys	Leu	His	
1				5					10						15		
Asp	Tyr	Tyr	Lys	20	Asp	Glu	Val	Val	Asn	Lys	Leu	Met	Thr	Glu	Phe	Asn	
								25						30			
Tyr	Asn	Ser	Val	Met	Gln	Val	Pro	Arg	Val	Glu	Lys	Ile	Thr	Leu	Asn		
		35					40					45					
Met	Gly	Val	Gly	Glu	Ala	Ile	Ala	Asp	Lys	Lys	Leu	Leu	Asp	Asn	Ala		
	50					55					60						
Ala	Ala	Asp	Leu	Thr	Ala	Ile	Ser	Gly	Gln	Lys	Pro	Leu	Ile	Thr	Lys		
				70						75					80		
Ala	Arg	Lys	Ser	Val	Ala	Gly	Phe	Lys	Ile	Arg	Gln	Gly	Tyr	Pro	Ile		
				85					90					95			
Gly	Cys	Lys	Val	Thr	Leu	Arg	Gly	Glu	Arg	Met	Trp	Glu	Phe	Leu	Glu		
			100					105					110				
Arg	Leu	Ile	Thr	Ile	Ala	Val	Pro	Arg	Ile	Arg	Asp	Phe	Arg	Gly	Leu		
		115					120					125					
Ser	Ala	Lys	Ser	Phe	Asp	Gly	Arg	Gly	Asn	Tyr	Ser	Met	Gly	Val	Arg		
	130					135					140						
Glu	Gln	Ile	Ile	Phe	Pro	Glu	Ile	Asp	Tyr	Asp	Lys	Val	Asp	Arg	Val		
	145				150					155				160			
Arg	Gly	Leu	Asp	Ile	Thr	Ile	Thr	Thr	Gly	Lys	Ser	Asp	Glu	Lys			
				165					170					175			

Gly Arg Ala Leu Leu Ala Ala Phe Glu Phe Pro Val Pro Gln Val Lys
 180 185 190
 Val Arg Phe Thr Glu Met Ala
 195 200

<210> 5697

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 5697

Lys Leu Ser Leu Trp His Gln Lys Tyr Ser Lys Glu Arg Ile Met Ala
 1 5 10 15
 Ala Lys Ile Arg Arg Asp Asp Glu Val Ile Val Leu Thr Gly Lys Asp
 20 25 30
 Lys Gly Lys Arg Gly Lys Val Lys Asn Val Leu Ser Ser Gly Lys Leu
 35 40 45
 Val Val Glu Gly Ile Asn Leu Val Lys Lys His Gln Lys Pro Val Pro
 50 55 60
 Ala Leu Asn Gln Pro Gly Gly Ile Val Glu Lys Glu Ala Ala Ile Gln
 65 70 75 80
 Val Ser Asn Val Ala Ile Phe Asn Ala Ala Thr Gly Lys Ala Asp Arg
 85 90 95
 Val Gly Phe Arg Phe Glu Asp Gly Lys Lys Val Arg Phe Phe Lys Ser
 100 105 110
 Asn Ser Glu Thr Ile Lys
 115

<210> 5698

<211> 352

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (278)

<220>

<221> UNSURE

<222> (352)

<400> 5698

Leu Arg Leu Ala Leu Gly Gly Val Thr His Thr Asp Ser Phe Leu His
 1 5 10 15
 Leu Lys Ile Lys Gly Asp Met Ile Ala Arg Ile Phe Ser Phe Leu Ser
 20 25 30
 His Arg Ser Val Arg Val Phe Ala Pro Met Lys Thr Met Lys Ile Ala
 35 40 45
 Val Ser Arg Glu Leu Val Ser Lys Val Ser Thr His Arg Glu Lys Val
 50 55 60
 Met Leu Asp Asn Thr Asp Phe Thr Asp Val Ala Val Val Ile Thr
 65 70 75 80
 Val Val Glu Ser Tyr Ser Gly Ile Leu Ala Leu Lys Arg Thr Gly
 85 90 95
 Phe Gln Leu Pro Val Phe Met Phe Ser Thr Glu Pro Gly Glu Val Pro
 100 105 110
 Glu Gly Val Thr Ala Ile Ile Ser Gly Lys Ala Gln Glu Leu Leu Glu
 115 120 125
 Leu Glu Ser Ala Ala Cys Arg Tyr Glu Glu Asn Leu Leu Pro Pro Phe
 130 135 140
 Phe Asp Thr Leu Ser Gln Tyr Val Ala Met Gly Asn Ser Thr Phe Ala

```

145          150          155          160
Cys Pro Gly His Gln His Gly Ala Phe Phe Lys Lys His Pro Ala Gly
      163          170          175
Arg Gln Phe Tyr Asp Phe Phe Gly Glu Asn Val Phe Arg Ala Asp Met
      180          185          190
Cys Asn Ala Asp Val Lys Leu Gly Asp Leu Leu Ile His Glu Gly Ser
      195          200          205
Ala Lys His Ala Gln Lys Phe Ala Ala Lys Val Phe Asn Ala Asp Lys
      210          215          220
Thr Tyr Phe Val Leu Asn Gly Thr Ser Ala Ala Asn Lys Val Val Thr
225          230          235          240
Asn Ala Leu Leu Thr Arg Gly Asp Leu Val Leu Phe Asp Arg Asn Asn
      245          250          255
His Lys Ser Asn His His Gly Ala Leu Ile Gln Ala Gly Ala Thr Pro
      260          265          270
Val Tyr Leu Glu Ala Xaa Arg Asn Pro Phe Gly Phe Ile Gly Gly Ile
      275          280          285
Asp Glu His Cys Phe Asp Glu Ala Trp Leu Arg Glu Leu Ile Arg Asp
      290          295          300
Val Ala Pro Gln Lys Ala Ala Glu Ala Arg Pro Phe Pro Ser Gly Asp
305          310          315          320
His Ser Ala Pro His Leu Pro Met Ala Arg Ile Tyr Asn Ala Arg Ser
      325          330          335
Gly Glu Ser Thr Asn Ile Arg Ala Pro Leu Arg Leu Thr Ser Leu Xaa
      340          345          350

```

<210> 5699

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 5699

```

Gln Glu Leu Asn Val Val Ile Gly Pro Phe Ile Asn Ala Gly Ala Val
1          5          10          15
Leu Leu Gly Gly Val Leu Gly Ala Val Leu Ser Gln Arg Leu Pro Glu
      20          25          30
Arg Ile Arg Val Ser Met Pro Ser Ile Phe Gly Leu Ala Ser Leu Gly
      35          40          45
Ile Gly Ile Leu Leu Val Val Lys Cys Ala Asn Leu Pro Val Met Val
      50          55          60
Leu Ala Thr Leu Leu Gly Ala Leu Ile Gly Glu Phe Cys Tyr Leu Glu
65          70          75          80
Lys Gly Ile Asn His Ala Val Gly Lys Ala Lys Asn Leu Ile Ala Arg
      85          90          95
Pro Gly Lys Ala Lys His Gly Thr His Glu Ser Phe Ile Gln Asn Tyr
      100          105          110
Val Ala Ile Ile Ile Leu Phe Cys Ala Ser Gly Thr Gly Ile Phe Gly
      115          120          125
Ser Met Gln Glu Gly Met Thr Gly Asp Pro Ser Ile Leu Ile Ala Lys
      130          135          140
Ala Phe Leu Asp Phe Phe Thr Ala Thr Ile Phe Ala Thr Thr Leu Gly
145          150          155          160
Ile Ala Val Ala Ala Ser Leu His His Gly Pro Glu Gly Pro Arg Met
      165          170          175

```

Arg

<210> 5700

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 5700

```

Ile Ile Thr Ser Met Arg Ser Asn Arg Phe Glu Ala Phe Ala Met Leu
1      5      10      15
Leu Ser Leu Pro Phe Leu Leu Ile Tyr Phe Ala Leu Ser Ala Leu Leu
20     25     30
Val Arg Thr Asp Ile Arg Thr Gly Leu Leu Pro Asp Lys Phe Leu Cys
35     40     45
Pro Leu Leu Trp Thr Gly Leu Leu Tyr Gln Leu Cys Leu His Pro Asp
50     55     60
Phe Leu Pro Ser Ala Val Val Gly Ala Met Ala Gly Tyr Ala Gly Phe
65     70     75     80
Ala Val Ile Tyr Trp Gly Tyr Arg Leu Ile Cys Arg Arg Glu Gly Met
85     90     95
Gly Tyr Gly Asp Ile Lys Tyr Leu Ala Ala Leu Gly Ala Trp His Gly
100    105    110
Trp Cys Val Leu Pro Val Leu Ala Leu Val Ala Ala Leu Met Ala Leu
115    120    125
Leu Tyr Leu Val Ala Phe Ser Leu Phe Thr Pro Asp Lys Gln Ala Leu
130    135    140
Lys Asn Pro Leu Pro Phe Gly Pro Phe Leu Ala Ala Ala Gly Leu Cys
145    150    155    160
Val Gly Trp Glu Ser Leu Ile Asn Phe Pro Leu
165    170

```

<210> 5701

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 5701

```

Pro Asp Leu Arg Phe Asn Glu Trp Lys Arg Arg Asp Tyr Ile Met Lys
1      5      10      15
Gly Asp Val Lys Ile Ile Ser Tyr Leu Asn Lys Leu Leu Gly Asn Glu
20     25     30
Leu Val Ala Ile Asn Gln Tyr Phe Leu His Ala Arg Met Phe Lys Asn
35     40     45
Trp Gly Leu Thr Arg Leu Asn Asp Val Glu Tyr His Glu Ser Ile Asp
50     55     60
Glu Met Lys His Ala Asp Lys Tyr Ile Glu Arg Ile Leu Phe Leu Glu
65     70     75     80
Gly Ile Pro Asn Leu Gln Asp Leu Gly Lys Leu Gly Ile Gly Glu Asp
85     90     95
Val Glu Glu Met Leu Arg Ser Asp Leu Arg Leu Glu Leu Glu Gly Ala
100    105    110
Lys Asp Leu Arg Glu Ala Ile Ala Tyr Ala Asp Ser Val His Asp Tyr
115    120    125
Val Ser Arg Asp Met Met Ile Gln Ile Leu Ala Asp Glu Glu Gly His
130    135    140
Ile Asp Trp Leu Glu Thr Glu Leu Asp Leu Ile Ser Lys Ile Gly Leu
145    150    155    160
Gln Asn Tyr Leu Gln Ser Gln Ile Lys Val Glu Ser
165    170

```

<210> 5702

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 5702

```

Ser Ala Thr Lys Ser Gly Thr Gly Thr Gly Arg Thr Thr Met Ile Lys

```

```

1          5          10          15
Ser Thr Asp Arg Lys Leu Val Val Gly Leu Glu Ile Gly Thr Ala Lys
20          25          30
Val Ala Ala Leu Val Gly Glu Val Leu Pro Asp Gly Met Val Asn Ile
35
Ile Gly Val Gly Ser Cys Pro Ser Arg Gly Met Asp Lys Gly Gly Val
50          55          60
Asn Asp Leu Glu Ser Val Val Lys Cys Val Gln Arg Ala Ile Asp Gln
65          70          75          80
Ala Glu Leu Met Ala Asp Cys Gln Ile Ser Ser Val Tyr Leu Ala Leu
85          90          95
Ser Gly Lys His Ile Ser Cys Gln Asn Glu Ile Gly Met Val Pro Ile
100          105          110
Ser Glu Glu Glu Val Thr Gln Glu Asp Val Glu Asn Val Val His Thr
115          120          125
Ala Lys Ser Val Arg Val Arg Asp Glu His Arg Val Leu His Val Ile
130          135          140
Pro Gln Glu Tyr Ala Ile Asp Tyr Gln Glu Gly Ile Lys Asn Pro Val
145          150          155          160
Gly Leu Ser Gly Val Arg Met Gln Ala Lys Val His Leu Ile Thr Cys
165          170          175
His Asn Asp Met Ala Lys Asn Ile Val Lys Ala Val Glu Arg Cys Gly
180          185          190
Leu Lys Val Asp Gln Leu Ile Phe Ala Gly Leu Ala Ala Ser Tyr Ser
195          200          205
Val Leu Thr Glu Asp Glu Arg Glu Leu Gly Val Cys Val Val Asp Ile
210          215          220
Gly Gly Gly Thr Met Asp Met Ala Val Tyr Thr Gly Gly Ala Leu Arg
225          230          235          240
His Thr Lys Val Ile Pro Tyr Ala Gly Asn Val Val Thr Ser Asp Ile
245          250          255
Ala Tyr Ala Phe Gly Thr Pro Pro Ser Asp Ala Glu Ala Ile Lys Val
260          265          270
Arg His Gly Cys Ala Leu Gly Ser Ile Val Gly Lys Asp Glu Ser Val
275          280          285
Glu Val Pro Ser Val Gly Gly Arg Pro Pro Arg Ser Leu Gln Arg Gln
290          295          300
Thr Leu Ala Glu Val Ile Glu Pro Arg Tyr Thr Glu Leu Leu Asn Leu
305          310          315          320
Val Asn Glu Glu Ile Leu Gln Leu Gln Glu Gln Leu Arg Gln Gln Gly
325          330          335
Val Lys His His Leu Ala Ala Gly Ile Val Leu Thr Gly Gly Ala Ala
340          345          350
Gln Ile Glu Gly Leu Ala Ala Cys Ala Gln Arg Val Phe His Thr Gln
355          360          365
Val Arg Ile Gly Ala Pro Leu Asn Ile Thr Gly Leu Thr Asp Phe Leu
370          375          380
Thr Arg Gly Gly Val Lys Arg
385          390

```

<210> 5703

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 5703

```

Ala Arg Arg Ser Trp Gln Leu Thr Leu Thr Asn Gly Ile Lys Leu Asn
1          5          10          15
Leu Gly Arg Gly Asp Thr Met Lys Arg Leu Ala Arg Phe Val Glu Leu
20          25          30
Tyr Pro Val Leu Gln Gln Gln Ala Gln Thr Asp Gly Lys Arg Ile Ser

```

```

      35              40              45
Tyr Val Asp Leu Arg Tyr Asp Ser Gly Ala Ala Val Gly Trp Glu Pro
  50              55              60
Ala Pro Val Glu Glu Pro Asn Gln Gln Gln Asn Gln Ala Gln Val Gln
  65              70              75              80
Ala Glu Gln Gln
      85

```

<210> 5704

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 5704

```

Ile Tyr Leu Glu Val Phe Met Ala Val Ala Ala Asn Lys Arg Ser Val
  1              5              10              15
Met Thr Leu Phe Ser Gly Pro Thr Asp Ile Tyr Ser His Gln Val Arg
      20              25              30
Ile Val Leu Ala Glu Lys Gly Val Ser Phe Glu Ile Glu His Val Glu
  35              40              45
Lys Asp Asn Pro Pro Gln Asp Leu Ile Asp Leu Asn Pro Ser Gln Ser
  50              55              60
Val Pro Thr Leu Val Asp Arg Glu Leu Thr Leu Trp Glu Ser Arg Ile
  65              70              75              80
Ile Met Glu Tyr Leu Asp Glu Arg Phe Pro His Pro Pro Leu Met Pro
      85              90              95
Val Tyr Pro Val Ala Arg Gly Glu Ser Arg Leu Tyr Met Gln Arg Ile
      100              105              110
Glu Lys Asp Trp Tyr Ser Leu Met Asn Val Ile Val Asn Gly Ser Ser
      115              120              125
Ser Glu Ala Asp Ala Ala Arg Lys Gln Leu Arg Glu Glu Leu Leu Ala
  130              135              140
Ile Ala Pro Val Phe Gly Gln Lys Pro Phe Leu Ser Asp Glu Phe
  145              150              155              160
Ser Leu Val Asp Cys Tyr Leu Ala Pro Leu Leu Trp Arg Leu Pro Thr
      165              170              175
Leu Gly Val Glu Phe Ser Gly Pro Gly Ala Lys Glu Leu Lys Gly Tyr
      180              185              190
Met Thr Arg Val Phe Glu Arg Asp Ser Phe Leu Ala Ser Leu Thr Glu
      195              200              205
Pro Glu Arg Glu Met Arg Leu Gly Arg Gly
      210              215

```

<210> 5705

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 5705

```

Asn Ala Ser Arg Pro Arg Leu Met Thr Val Glu Met Ser Gln Leu Ser
  1              5              10              15
Pro Arg Arg Pro Tyr Met Leu Arg Ala Phe Tyr Glu Trp Leu Leu Asp
      20              25              30
Asn Gln Leu Thr Pro His Leu Val Val Asp Val Thr Leu Pro Gly Val
  35              40              45
Leu Val Pro Met Glu Tyr Ala Arg Asp Gly Gln Ser Ser Pro Arg Arg
  50              55              60
Trp Gln Asp Pro Arg Leu Ala Leu
  65              70

```

<210> 5706

<211> 111

<212> PRT

<213> *Enterobacter cloacae*

<400> 5706

```

Tyr Thr Glu Ile Ala Phe Arg Lys Thr Cys Ile Glu Pro Gln Ser Arg
1      5      10      15
Cys Leu Leu Thr Arg Ile Lys Gly Val Ile Met Glu Lys Asn Ser Glu
      20      25      30
Val Ile Gln Thr His Pro Leu Val Gly Trp Asp Ile Ser Thr Val Asp
      35      40      45
Ser Tyr Asp Ala Leu Met Leu Arg Leu His Tyr Gln Thr Pro Asn Gln
      50      55      60
Leu Asn Arg Asp Glu Ala Glu Val Gly Gln Thr Leu Trp Leu Thr Thr
      65      70      75      80
Asp Val Ala Arg Gln Phe Ile Ser Ile Leu Glu Ala Gly Ile Ala Lys
      85      90      95
Ile Glu Ser Gly Asp Tyr Gln Glu Asn Glu Tyr Lys Arg His
      100      105      110

```

<210> 5707

<211> 233

<212> PRT

<213> *Enterobacter cloacae*

<400> 5707

```

Gln Ser Val Ser Lys Glu Lys Pro Met Lys Tyr Asp Leu Ile Ile Ile
1      5      10      15
Gly Ser Gly Ser Val Gly Ser Ala Ala Gly Tyr Tyr Ala Thr Gln Ala
      20      25      30
Gly Leu Asn Val Leu Met Ile Asp Ala His Arg Pro Pro His Ser Glu
      35      40      45
Gly Ser His His Gly Asp Thr Arg Leu Ile Arg His Ala Tyr Gly Glu
      50      55      60
Gly Glu Arg Tyr Val Pro Leu Val Leu Arg Ala Gln Thr Leu Trp Asp
      65      70      75      80
Glu Leu Ala Ala Leu Thr Glu Glu Arg Ile Phe Glu Arg Thr Gly Val
      85      90      95
Val Asn Leu Gly Pro Ala Ser Ser Thr Phe Leu Ala Thr Val Glu Glu
      100      105      110
Ser Ala Lys Ala Tyr Arg Leu Asp Val Glu Arg Leu Asp Ala Asn Gly
      115      120      125
Ile Met Ala Arg Trp Pro Glu Ile Ser Val Pro Glu Asp Tyr Ile Gly
      130      135      140
Leu Phe Glu Ala Asn Ser Gly Val Leu His Ser Glu Thr Ala Ile Asn
      145      150      155      160
Thr Trp Ile Asp Leu Ala Ala Lys Ala Gly Cys Ala Gln Leu Phe Asn
      165      170      175
Cys Pro Val Thr Gly Ile Thr His His Ala Glu Gly Ser Thr Val Thr
      180      185      190
Thr Ser Glu Gly Glu Tyr Thr Ala Thr Arg Leu Leu Val Ser Ala Gly
      195      200      205
Thr Trp Val Thr Lys Leu Leu Pro Asp Leu Pro Ile His Pro Val Arg
      210      215      220
Lys Val Phe Ser Trp Val Pro Val
      225      230

```

<210> 5708

<211> 158

<212> PRT

<213> *Enterobacter cloacae*

<400> 5708

```

His Leu Phe Asp Val Ala Leu Lys Phe Arg Val Leu Ile Leu Tyr Glu
1      5      10      15
Val Val Leu Leu Arg Val Tyr Glu Ala Lys Ala Lys Thr Arg Ser Tyr
      20      25      30
Leu Met Ala Thr Val Asn Gln Leu Val Arg Lys Pro Arg Ala Arg Lys
      35      40      45
Val Ala Lys Ser Asn Val Pro Ala Leu Glu Ala Cys Pro Gln Lys Arg
      50      55      60
Gly Val Cys Thr Arg Val Tyr Thr Thr Thr Pro Lys Lys Pro Asn Ser
65      70      75      80
Ala Leu Arg Lys Val Cys Arg Val Arg Leu Thr Asn Gly Phe Glu Val
      85      90      95
Thr Ser Tyr Ile Gly Gly Glu Gly His Asn Leu Gln Glu His Ser Val
      100      105      110
Ile Leu Ile Arg Gly Gly Arg Val Lys Asp Leu Pro Gly Val Arg Tyr
      115      120      125
His Thr Val Arg Gly Ala Leu Asp Cys Ser Gly Val Lys Asp Arg Lys
      130      135      140
Gln Ala Arg Ser Lys Tyr Gly Val Lys Arg Pro Lys Ala
145      150      155

```

<210> 5709

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 5709

```

Gln Arg Ser Asn Pro Met Pro Arg Arg Val Ile Gly Gln Arg Lys
1      5      10      15
Ile Leu Pro Asp Pro Lys Phe Gly Ser Glu Leu Leu Ala Lys Phe Val
      20      25      30
Asn Ile Leu Met Val Asp Gly Lys Lys Ser Thr Ala Glu Ala Ile Val
      35      40      45
Tyr Ser Ala Leu Glu Thr Leu Ala Gln Arg Ser Gly Lys Asn Glu Leu
      50      55      60
Glu Ala Phe Glu Val Ala Leu Asp Asn Val Arg Pro Thr Val Glu Ile
65      70      75      80
Lys Ser Arg Arg Val Gly Gly Ser Thr Tyr Gln Val Pro Val Glu Val
      85      90      95
Arg Pro Val Arg Arg Asn Ala Leu Ala Met Arg Trp Ile Val Glu Ala
      100      105      110
Ala Arg Lys Arg Gly Asp Lys Ser Met Ala Leu Arg Leu Ala Asn Glu
      115      120      125
Leu Ser Asp Ala Ala Glu Asn Lys Gly
130      135

```

<210> 5710

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 5710

```

Thr Phe Val Phe Arg Ser Ile Arg Lys Phe Val Arg Gln Thr Gln Ser
1      5      10      15
His Gly Phe Ile Thr Ala Phe Thr Ser Ser Phe Asn Asp Pro Thr His
      20      25      30
Cys Gln Ser Ile Thr Thr Asn Arg Thr Asn Phe Asn Trp Asn Leu Ile
      35      40      45
Ser Arg Thr Thr Asn Ala Ala Arg Leu Asn Phe Tyr Ser Arg Ala His

```

50		55		60
Val Val Glu Ser Asp Phe Glu Gly Phe Gln Phe Ile Phe Thr Arg Thr				
65		70		75
Leu Ser Gln Gly Leu Gln Arg Ala Val Tyr Asp Cys Phe Cys Gly Arg				80
	85		90	95
Phe Phe Thr Ile Tyr His Gln Asp Ile Tyr Lys Phe Cys Gln Gln Phe				
100		105		110

<210> 5711

<211> 185

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (165)

<400> 5711

Lys Leu Tyr Ala Arg Glu Ala Phe Met Pro Arg Arg Gln Ile Leu Ser				
1	5		10	15
Ser Glu Glu Gln Glu Arg Leu Leu Val Ile Pro Asp Asp Glu Ile Ile				
	20		25	30
Leu Thr Arg Met Cys Phe Leu Asn Glu Pro Asp Ile Ala Val Leu Ile Asn				
	35		40	45
Lys His Arg Arg Pro Ala Asn Arg Leu Gly Phe Ala Val Leu Leu Cys				
	50		55	60
Tyr Leu Arg Gly Pro Gly Phe Ile Pro Asp Lys Ser Ser Ala Pro His				
65		70		75
Asn Gly Val Val Ser Arg Val Ala Ser Arg Leu Lys Leu Gln Pro Asp				
	85		90	95
Leu Trp Pro Glu Tyr Ala Ser Arg Glu Gln Thr Arg Trp Glu His Leu				
	100		105	110
Thr Glu Leu Tyr Arg Tyr Leu Glu Leu Ser Pro Phe Ser Arg Ser Met				
	115		120	125
Gln Lys Glu Cys Ile Arg His Leu Gln Pro Tyr Ala Met Arg Thr Asp				
	130		135	140
Lys Arg Phe Met Leu Ala Gly Arg Asn Ala His Leu Gly Tyr Ile Asn				
145		150		155
Asn Asn Val Tyr Xaa Pro Leu Leu Leu Lys Val Ile Gln Thr Asp Ala				
	165		170	175
Leu Pro Lys Ser Phe Thr Leu Arg				
180		185		

<210> 5712

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 5712

Phe Arg Thr His Val Ile Ile Arg Thr Ser Ile Ser Tyr Gly Lys Phe				
1	5		10	15
Pro Met Ser Arg Val Phe Ala Tyr Cys Arg Val Ser Thr Leu Glu Gln				
	20		25	30
Thr Thr Glu Asn Gln Arg Arg Glu Ile Glu Ala Ala Gly Phe Ala Ile				
	35		40	45
Arg Ser Gln Arg Leu Ile Glu Glu His Ile Ser Gly Ser Val Ala Ala				
	50		55	60
Ser Glu Arg Pro Gly Phe Ile Arg Leu Leu Asp Arg Met Glu Asn Gly				
65		70		75

Asp Val Leu Ile Val Thr Lys Leu Asp Arg Leu Gly Arg Asn Ala Met
 85 90 95
 Asp Ile Arg Lys Thr Val Glu Gln Leu Ala Ala Leu Asp Ile Arg Val
 100 105 110
 His Cys Leu Ala Leu Gly Gly Val Asp Leu Thr Ser Pro Ala Gly Lys
 115 120 125
 Met Thr Met Gln Val Ile Ser Ala Val Ala Glu Phe Glu Arg Asp Leu
 130 135 140
 Leu Leu Glu Arg Thr Tyr Ser Gly Ile Ala Arg Ala Lys Ala Ala Gly
 145 150 155 160
 Lys Arg Phe Gly Arg Pro Pro Ile Leu Ser Glu Glu Gln Lys Gln Thr
 165 170 175
 Val Thr Glu Arg Leu Asn Ala Gly Ile Ser Ile Ser Ala Ile Ala Arg
 180 185 190
 Glu Phe Asn Thr Thr Arg Gln Ile Ile Leu Arg Val Lys Ala Gly Leu
 195 200 205
 Leu Gln Glu
 210

<210> 5713

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 5713

Ser Pro Phe Ala Gly Leu Arg Leu Phe Gly Glu Lys Ser Asp Ser Val
 1 5 10 15
 Ile Cys Gly His Ser Asn Cys Gly Ala Met Lys Ala Ile Ala Asp Asn
 20 25 30
 Ala Asp Leu Glu Pro Met Pro Ala Val Ser His Trp Leu Arg Tyr Ser
 35 40 45
 Asp Ala Ala Lys Ala Val Val Glu Lys Lys Thr Trp Asp Lys Pro Ile
 50 55 60
 Asp Lys Val Asn Ala Met Val Gln Glu Asn Val Phe Ala Gln Leu Ser
 65 70 75 80
 Asn Ile Lys Thr His Pro Ser Val Ala Val Gly Leu Arg Asn Asn Ala
 85 90 95
 Ile Arg Leu His Gly Trp Val Tyr Asp Ile Glu Ser Gly Lys Ile Leu
 100 105 110
 Ala Leu Asp Lys Asn Thr Lys Ser Phe Val Ser Leu Ser Glu Asn Pro
 115 120 125
 Glu Val Phe Phe Glu
 130

<210> 5714

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 5714

Gly Val Glu Leu Phe Gly Ser Ala Ala Pro Leu Val Lys Thr Glu Ala
 1 5 10 15
 Asp Phe Tyr Cys Pro Ile Pro Tyr Glu Pro Leu Ser Val Leu Thr Asp
 20 25 30
 Cys Val Val Ala Ser Glu Ile Asp Lys Gly Pro Asp Gly Leu Leu Asp
 35 40 45
 Arg Ile Phe Ala Leu Met Val Lys Glu Leu Glu Leu Ala Asp Pro Arg
 50 55 60
 Trp Cys Gln Ala Ile Ala Leu Gly Thr Leu Asn Ala Asp Thr Leu Arg
 65 70 75 80
 Asp Ala Trp Phe Glu Asp Arg Lys Lys His Gly Pro Phe Thr Trp Ala

85 90 95
 Glu Ala Asn Leu Lys Glu Val Glu Arg Asn Lys Arg Glu Lys Arg Thr
 100 105 110
 Val Ala Trp Arg Tyr Thr Val Leu Arg Leu His Glu Val Val Gln Ala
 115 120 125
 Ile Val Pro Ser Leu Asn Glu His Asp Arg Glu Arg Phe Lys Ser Gly
 130 135 140
 Leu Glu Arg Val Phe Ile Asp Asn Tyr Ala Ala Ile Pro Pro Gln Ser
 145 150 155 160
 Ile Arg Arg Leu Leu Ala Leu Arg Glu Ala Gly Ile Ile Ser Val Val
 165 170 175
 Ala Leu Gly Asp Asp Tyr Asp Leu Asp Ile Gly Ser Asp Gln Thr Val
 180 185 190
 Ile Thr Thr Ala Lys Lys Ser Tyr Arg Phe Asp Val Phe Ile Asp Ala
 195 200 205
 Arg Gly Gln Lys Pro Leu Arg Asn Lys Asp Ile Pro Phe Pro Thr Leu
 210 215 220
 Arg Lys Gln Leu Ala Gly Thr Gly Asp Asp Val Pro Asp Val Gly Glu
 225 230 235 240
 Asp Tyr Thr Leu Leu Ala Pro Ala Ser Leu Arg Gly Arg Ile Ala Phe
 245 250 255
 Gly Ala Ile Pro Trp Leu Met His Asp His Pro Phe Val Gln Gly Leu
 260 265 270
 Ser Glu Cys Ala Glu Ile Gly Lys Ala Met Ala Lys Ala Ala Gly Lys
 275 280 285
 Pro Ala Ser Gly Val Arg Arg Lys Leu Pro Tyr Met Glu Phe
 290 295 300

<210> 5715

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 5715

Asn Cys Phe Leu Ile Pro Leu Ile Gln Glu Asn Asp Thr Met Leu Asp
 1 5 10 15
 Trp Asn Asn Tyr Arg Ser Glu Leu Met Gln Arg Leu Gly Glu Leu Gly
 20 25 30
 Lys Leu Thr Pro Glu Thr Met Lys Gly Val Val Ala Leu Gly Asn Ala
 35 40 45
 Gly Asn Lys Thr Asp Leu Leu Gly Ala Lys Val Arg Glu Leu Ile Ala
 50 55 60
 Leu Ala Cys Ala Val Thr Thr Arg Cys Asp Gly Cys Ile Ala Phe His
 65 70 75 80
 Ala Asp Ala Ala Val Lys Ala Gly Ala Thr Asp Ala Glu Ile Ala Glu
 85 90 95
 Ala Leu Gly Val Ala Ile Asn Leu Asn Ala Gly Ala Ala Val Ile Ser
 100 105 110
 Phe Ser Pro His Leu Ser Thr Ala Arg Asp Glu Val Ala Ala Pro
 115 120 125

<210> 5716

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 5716

Leu Met Arg Gly Pro Ala Ala Pro Leu Val Lys Thr Thr Gly Met Ser
 1 5 10 15
 Pro Thr Glu Tyr Ile Met Gln Ala Leu Ala Gly Cys Tyr Thr Ala Thr
 20 25 30

```

Leu Thr Met Met Ala Ala Glu Lys Gly Ile Asp Leu Asp Gly Ile Glu
   35                               40           45
Leu Asp Leu Asn Phe Asp Ile Asn Leu Asn Gly Phe Leu Gly Leu Asp
   50                               55           60
Ser Asn Val Arg Lys Gly Ala Lys Ser Ile Arg Val Asp Val His Leu
   65                               70           75           80
Thr Ser Asn Thr Ala Ser Arg Glu Glu Leu Glu Ala Leu Val Ser Glu
                               85           90           95
Met Gln Lys Asn Ser Pro Ile His Asp Thr Leu Ala Asn Pro Val Glu
                               100          105          110
Met Ile Thr Arg Leu Ala
   115

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<210> 5717

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 5717

```

Gln Gln Tyr Asn Leu Ser Thr Ser Arg Leu Tyr Gly Val Ile Met Thr
1                               5           10           15
Thr Met Thr Arg Glu Arg Leu Leu Ser Glu Ala Glu His Leu Met Arg
   20                               25           30
Glu Lys Gly Tyr Ser Ala Phe Ser Tyr Ala Asp Leu Ser Lys Ile Val
   35                               40           45
Gly Ile Thr Lys Ala Ser Ile His His His Phe Pro Thr Lys Asp Ile
   50                               55           60
Leu Gly Glu Gln Val Val Ile Gln Ala Phe Ser Asp Thr Gln Arg Val
   65                               70           75           80
Phe Glu Gln Ile Glu Ala Thr Glu Lys Ser Ala Glu Arg Arg Ile Ala
                               85           90           95
Ala Tyr Ile Asp Ile Phe Ala Gln Ser His Lys Ala Ser Leu Leu Pro
   100                              105          110
Leu Cys Cys Ala Leu Ser Ala Glu Thr Ala Asn Leu Pro Gln Ala Ile
   115                              120          125
Thr Val Gln Thr Ser Leu Tyr Phe Asp Met Gln Ile Glu Trp Leu Thr
   130                              135          140
Lys Val Val Arg Ala Gly Met Glu Ser Gly Glu Phe Ser Ser His Ala
   145                              150          155          160
Glu Pro Ser Asp Ile Ala Leu Met Ile Ile Asn Val Cys Glu Gly Ser
                               165          170          175
Ser Val Val Ala His Ala Thr Ala Arg Pro Glu Val Phe Ala Asn Ser
   180                              185          190
Leu Lys Tyr Ile Lys Leu Leu Asn Thr Pro His Ser Gly Glu
   195                              200          205

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<210> 5718

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 5718

```

Ser Arg Leu His Arg Arg Ile Ala Pro Phe Glu Asp His Ala Ile Ser
1                               5           10           15
Ala Thr Leu Lys Glu Ser Leu Thr Lys Gln Gly Val Glu Phe Leu Thr
   20                               25           30
Gly Ala Asp Leu Lys Gln Val Lys Val Gly Gly Asp Leu Val Ile Cys
   35                               40           45
Thr Val Ile Val Gly Glu Asp Thr His Val Ile Thr Ala Glu Lys Ile
   50                               55           60
Leu Ile Ala Thr Gly Arg Arg Pro Val Thr Glu Lys Leu Asn Leu Asp

```

```
<400> 5720
Arg Glu Pro Ser Met Asn Ser Leu Leu Thr Leu Ala Lys Asp Leu Glu
1      5      10
Gln Lys Ser Lys Ala Gln Gln Gln Thr Thr Gly Glu Met Leu Lys Ala
      20      25      30
Ala Phe Ser Glu His Glu Lys Ser Val Arg Ala Glu Leu Ser Glu Ser
      35      40      45
```

Glu Lys Arg Ile Ser Ala Ala Ile Leu Asp His Asp Arg Lys Leu Ser
 50 55 60
 Ser Ala Met Ser Gln Arg Thr Lys Gly Met Leu Arg Met Val Ser Gln
 65 70 75 80
 Thr Trp Leu Thr Ile Val Leu Val Ser Ala Leu Leu Ile Ala Ser Ser
 85 90 95
 Ala Gly Ile Leu Trp Trp Gln Gly Gln Gln Ile Leu Glu Asn Tyr Thr
 100 105 110
 Thr Ile Arg Glu Gln Lys Ser Thr Gln Ala Met Leu Ser Glu Arg Asn
 115 120 125
 Ser Gly Val Gln Leu Ser Thr Cys Gly Glu Gln Arg Arg Cys Val
 130 135 140
 Arg Val Asn Pro Glu Ala Gly Gln Phe Gly Glu Asp Ser Ser Trp Met
 145 150 155 160
 Ile Leu Ala Gly Lys
 165

<210> 5721
 <211> 73
 <212> PRT
 <213> Enterobacter cloacae

<400> 5721
 His Met Thr Glu Leu Glu Lys Gln Leu Leu Ser Ala Leu Glu Gln Leu
 1 5 10 15
 Gln Gln Asp Tyr Ser Lys Arg Leu Asp Glu Trp Glu Asn Ala Phe Ala
 20 25 30
 Glu Trp Arg Thr Met Ser Gly Leu Ile Gln Arg Glu Asn Ala Ala Leu
 35 40 45
 Asn Glu Arg Val Thr Val Leu Ser Arg Gln Val Gln Ser Leu Ser Glu
 50 55 60
 Gln Leu Arg Arg Leu Ser Lys Gly
 65 70

<210> 5722
 <211> 287
 <212> PRT
 <213> Enterobacter cloacae

<400> 5722
 Pro Thr Leu Pro Ser Thr Asp Gly Gly Arg Asn Ile Arg Leu Lys Gly
 1 5 10 15
 Ala Ile Tyr Glu Gln Ser Phe Asn Ala Gly Glu Gly Leu Arg Ala Glu
 20 25 30
 Ile Glu Ser Ala Ala Ala Asp Tyr Arg Arg Asp Ala Glu Ser Arg Ile
 35 40 45
 Gln Arg Ala Arg Glu Val Cys Gln Ser Gly Thr Glu Arg Lys Arg Glu
 50 55 60
 Glu Asn Gln Arg Arg His Pro Arg Pro Arg Pro Glu Ala Val Leu Ser
 65 70 75 80
 His Glu Pro Ala His Glu Arg Asp Ala Ala His Gly Gln Pro Asp Val
 85 90 95
 Ala Asp His Arg Ser Gly Leu Arg Ala Ala Asp Ser Val Glu Arg Gly
 100 105 110
 His Ser Val Val Ala Gly Ala Ala Asp Thr Arg Glu Leu Tyr Asp His
 115 120 125
 Pro Gly Ala Glu Glu His Ala Gly His Ala Val Arg Glu Glu Gln Arg
 130 135 140
 Arg Thr Ala Leu Asp Leu Arg Arg Ala Glu Thr Pro Leu Arg Glu Gly
 145 150 155 160
 Glu Pro Gly Ser Gly Thr Val Arg Arg Gly Leu Glu Leu Asp Asp Thr

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<210> 5723
<211> 209
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5724
<211> 124
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 5724
Leu Thr Arg Cys Phe Thr Gly Ser Val His Lys Asn Met Ser Ser His
1          5          10          15
Tyr Leu Arg Ile Phe Gln Gln Pro Lys Ser Ala Ile Leu Leu
          20          25          30

```

Gly Phe Ala Ser Gly Leu Pro Leu Ala Leu Thr Ser Gly Thr Leu Gln
 35 40 45
 Ala Trp Met Thr Val Glu Asn Ile Asp Leu Lys Thr Ile Gly Phe Phe
 50 55 60
 Ser Leu Val Gly Gln Ala Tyr Val Phe Lys Phe Leu Trp Ser Pro Val
 65 70 75 80
 Met Asp Arg Tyr Thr Pro Pro Phe Leu Gly Arg Arg Arg Gly Trp Leu
 85 90 95
 Ala Met Thr Gln Ala Leu Leu Leu Leu Ala Ile Ala Ala Pro Val Ser
 100 105 110
 Leu Ser Cys Glu Gln Ser Gly Ser Pro Lys Gly
 115 120

<210> 5725

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 5725

Arg Cys Arg Arg Ser Asp Phe Met Met Ile Arg Glu Gln Ile Glu Glu
 1 5 10 15
 Lys Leu Arg Ala Ala Phe Asn Pro Val Phe Leu Glu Val Val Asp Glu
 20 25 30
 Ser Tyr Arg His Asn Val Pro Ala Gly Ser Glu Ser His Phe Lys Val
 35 40 45
 Val Leu Val Ser Asp Arg Phe Thr Gly Glu Arg Phe Leu Asn Arg His
 50 55 60
 Arg Ser Ile Cys Leu His Cys Arg Val Pro Val Arg Ala Met Leu
 65 70 75

<210> 5726

<211> 255

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (253)

<400> 5726

Thr Ala Pro Val His Ser Gly Ala Val Leu Thr Phe Leu Lys Thr Leu
 1 5 10 15
 Arg Lys Arg Arg Tyr Phe Glu Phe Tyr Glu Ala Ser Asn Met Val Pro
 20 25 30
 Val Val Ala Leu Val Gly Arg Pro Asn Val Gly Lys Ser Thr Leu Phe
 35 40 45
 Asn Arg Leu Thr Arg Thr Arg Asp Ala Leu Val Ala Asp Phe Pro Gly
 50 55 60
 Leu Thr Arg Asp Arg Lys Tyr Gly Arg Ala Glu Val Glu Gly Arg Glu
 65 70 75 80
 Phe Ile Cys Ile Asp Thr Gly Gly Ile Asp Gly Thr Glu Asp Gly Val
 85 90 95
 Glu Thr Arg Met Ala Glu Gln Ser Leu Leu Ala Ile Glu Glu Ala Asp
 100 105 110
 Val Val Leu Phe Met Val Asp Ala Arg Ala Gly Leu Met Pro Ala Asp
 115 120 125
 Ser Ala Ile Ala Lys His Leu Arg Ser Arg Glu Lys Pro Thr Phe Leu
 130 135 140
 Val Ala Asn Lys Thr Asp Gly Ile Asp Ala Asp Gln Ala Ile Ala Asp
 145 150 155 160
 Phe Trp Ser Leu Gly Leu Gly Asp Ile Tyr Pro Ile Ala Ala Ser His

Gly Arg Gly Val 165 170 175
 Thr Ser Leu Leu Glu Thr Val Leu Leu Pro Trp Val
 180 185 190
 Asp Glu Val Asn Pro Pro Glu Glu Val Asp Glu Asp Ala Glu Tyr Trp
 195 200 205
 Ala Gln Phe Glu Ala Gly Glu Glu Gly Glu Glu Pro Glu Asp Asp
 210 215 220
 Phe Asn Pro Gln Asp Leu Pro Ile Lys Leu Ala Ile Val Gly Arg Pro
 225 230 235 240
 Asn Val Gly Lys Ser Thr Leu Thr Asn Arg Ile Phe Xaa Arg
 245 250 255

<210> 5727

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 5727

Leu Phe Ser Arg Gly Cys Ser Tyr Val Val Lys Thr Phe Gly Ala Ala
 1 5 10 15
 Ile Val Gly Gly Asp Asn Gly Arg Val Ser Ala Val Leu Met Gln Gln
 20 25 30
 Gly Gln Met Ile Trp Gln Gln Arg Ile Ser Gln Ala Thr Gly Ser Thr
 35 40 45
 Glu Ile Asp Arg Leu Ser Asp Val Asp Thr Thr Pro Val Ile Val Asp
 50 55 60
 Gly Val Val Tyr Ala Leu Ala Tyr Asn Gly Asn Leu Thr Ala Leu Asp
 65 70 75 80
 Leu Arg Ser Gly Gln Ile Met Trp Lys Arg Glu Leu Gly Ser Val Asn
 85 90 95
 Asp Phe Ile Val Asp Gly Asn Arg Ile Tyr Met Val Asp Gln Asn Asp
 100 105 110
 Arg Leu Leu Ala Leu Ser Thr Glu Gly Gly Val Thr Leu Trp Thr Gln
 115 120 125
 Ser Asp Leu Leu His Arg Leu Leu Thr Ala Pro Ala Leu Tyr Asn Gly
 130 135 140
 Ser Leu Val Val Gly Asp Ser Glu Gly Tyr Met His Trp Ile Asp Pro
 145 150 155 160
 Glu Asn Gly Arg Phe Val Ala Gln Gln Lys Val Asp Ser Ser Gly Phe
 165 170 175
 Leu Thr Glu Pro Val Val Ala Asp Gly Lys Leu Leu Ile Gln Ala Lys
 180 185 190
 Asp Gly Thr Leu Tyr Ala Ile Thr Arg
 195 200

<210> 5728

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 5728

Val Ile Val Thr His His Pro Ser Leu Leu Cys Leu Lys Asn Ser Arg
 1 5 10 15
 Val Gln Pro Pro Lys Ser Thr Ala Lys Thr Tyr Asn His Thr Ile Lys
 20 25 30
 Pro Ser Asp Phe Gln Met Cys Arg Thr Asp Lys Phe Gln Leu Ser Val
 35 40 45
 Leu Asn Thr Ile Ile Phe Thr Ile Asp Ala Pro Ile Lys Thr Gly Leu
 50 55 60
 Ser Ile Asn His Leu Ser Ile Ile Ser Gly Tyr Ser Lys Trp His Leu
 65 70 75 80

Gln Lys Ile Phe Lys His His Phe Gly Met Ser Leu Gly Thr Tyr Ile
 85 90 95
 Arg Arg Lys Arg Ile Glu Tyr Ala Ala His Glu Ile Ile Asn Lys Lys
 100 105 110
 Cys Lys Ile Ile Asp Val Val Ile Asp Phe Asn Phe Ser Asn Gln Ser
 115 120 125
 Ser Phe Cys Arg Thr Phe Lys Ser Ile Tyr Gly Val Ser Pro Lys Glu
 130 135 140
 Phe Lys Ser Glu His Ile Asn His Leu
 145 150

<210> 5729

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 5729

Lys Gly Lys Trp Val Ser Phe Arg Glu Trp Arg Ala Arg Val Arg Phe
 1 5 10 15
 Leu Asn Ser Leu Pro Leu Leu Arg Thr Glu Lys Thr Ile Gln Glu Ile
 20 25 30
 Ser Tyr Leu Leu Gly Tyr Ser Asn Thr Ser Ser Phe Ile Ile Met Phe
 35 40 45
 Glu Lys Leu Ser Gly Thr Thr Pro Glu Lys Tyr Arg Lys Asn Ile
 50 55 60

<210> 5730

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 5730

Ser Cys Leu Phe Leu Cys Phe Phe Cys Pro Phe Met Leu Ile Ile Phe
 1 5 10 15
 Asn Thr Met Cys Val Ile Ile Ile Ala Thr Glu Leu Glu Lys Arg Cys
 20 25 30
 Ile Met Lys Asn Val Leu Ser Leu Ser Leu Leu Phe Ile Ser Ser
 35 40 45
 Gly Tyr Ala Ala Ser Glu Val Thr Tyr Leu Asn Pro Thr Pro Gln Gly
 50 55 60
 Ala Val Arg Ile Gly Glu Val Ser Phe Phe Lys Ala Gly Ser Ala Thr
 65 70 75 80
 Gln Ser Glu Val Ile Gly Ser Leu Ser Lys Lys Ala Asp Ser Leu Gly
 85 90 95
 Gly Thr His Phe Glu Ile Ser Ser Leu Asn Ser Ser Asp Asn Thr Tyr
 100 105 110
 Ala Thr Ala Ile Val Tyr Lys
 115 120

<210> 5731

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 5731

Thr Leu Gly Thr Val Leu Phe Leu Cys Phe Ser Ile Gly Leu Ala Ile
 1 5 10 15
 Thr Met Val Ala Ile Gly Ala Val Ala Ala Val Ser Val Glu Gln Ala
 20 25 30
 Ser Lys Arg Trp Asp Gly Leu Asp Val Leu Ala Arg Arg Ala Pro Tyr
 35 40 45

Phe Ser Ser Ala Leu Ile Ala Leu Gly Gly Ile Tyr Met Gly Tyr His
 50 55 60
 Gly Trp Leu Gly Ile Thr Asn
 65 70

<210> 5732

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 5732

Pro Asp Phe Asp Leu Pro Asn Thr Thr Trp Gln Pro Thr Lys Leu Asp
 1 5 10 15
 Leu Glu Asn Ile Leu Glu Pro Ser Pro Arg Ile Trp Pro Asp Ala
 20 25 30
 Tyr Glu Arg Leu Leu Leu Glu Thr Ile Arg Gly Ile Gln Ala Leu Phe
 35 40 45
 Phe His Arg Asp Glu Val Glu Glu Ala Trp Lys Trp Val Asp Ser Ile
 50 55 60
 Thr Glu Ala Trp Ala Ala Asp Gln Asp Ala Pro Lys Pro Tyr Gln Ala
 65 70 75 80
 Gly Thr Trp Gly Pro Val Ala Ser Val Ala Met Ile Thr Arg Asp Gly
 85 90 95
 Arg Ser Trp Asn Glu Phe Glu
 100

<210> 5733

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 5733

Ile Arg Gly Ala Phe Met Asn Pro Thr Leu Leu Arg Val Thr Gln Arg
 1 5 10 15
 Ile Val Glu Arg Ser Lys Glu Thr Arg Ala Ala Tyr Leu Ala Arg Ile
 20 25 30
 Glu Gln Ala Lys Ser Glu Thr Val His Arg Ser Gln Leu Ala Cys Gly
 35 40 45
 Asn Leu Ala His Gly Phe Ala Ala Cys Gln Pro Gly Asp Lys Asp Ala
 50 55 60
 Leu Lys Ser Met Leu Arg Asn Asn Ile Ala Ile Ile Thr Ser Tyr Asn
 65 70 75 80
 Asp Met Leu Ser Ala His Gln Pro Tyr Glu Val Tyr Pro Ser Ile Ile
 85 90 95
 Arg Asn Ala Leu His Ser Val Asn Ala Val Gly Gln Val Ala Gly Gly
 100 105 110
 Val Pro Ala Met Cys Asp Gly Val Thr Gln Gly Gln Asp Gly Met Glu
 115 120 125
 Leu Ser Leu Leu Ser Arg Glu Val Ile Ala Met Ser Ala Ala Val Gly
 130 135 140
 Leu Ser His Asn Met Phe Asp Gly Ala Leu Tyr Leu Gly Val Cys Asp
 145 150 155 160
 Lys Ile Val Pro Gly Leu Val Met Ala Ala Leu Ser Phe Gly His Leu
 165 170 175
 Pro Ala Ile Phe Val Pro Ser Gly Pro Met Ala Ser Gly Leu Pro Asn
 180 185 190
 Lys Glu Lys Val Arg Ile Arg Gln Leu Tyr Ala Glu Gly Lys Ala Asp
 195 200 205
 Arg Gln Ala Leu Leu Glu Ala Glu Ala Ala Ser Tyr His Ala Pro Gly
 210 215 220
 Thr Cys Thr Phe Tyr Gly Thr Ala Asn Thr Asn Gln Met Val Val Glu

```

225          230          235          240
Tyr Met Gly Met Gln Leu Pro Gly Ser Ser Phe Ile Gln Pro Asp Ala
          245          250          255
Pro Leu Arg Lys Ala Leu Thr Glu Ala Ala Ser Arg Gln Val Thr Arg
          260          265          270
Leu Thr Gly Asn Gly Asn Glu Trp Met Pro Met Gly Lys Met Val Asp
          275          280          285
Glu Lys Val Ile Val Lys Arg
          290          295

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<210> 5734
<211> 129
<212> PRT
<213> Enterobacter cloacae

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<220>
<221>UNSURE
<222>(15)

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<220>
<221>UNSURE
<222>(94)

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<400> 5734
Gln Asn Gly Arg His Met Leu Thr Cys Tyr Ala Leu Asn His Xaa Arg
1          5          10          15
Thr Lys Thr Gln Leu Ala Thr Ala Ala Gly Val Lys Leu Gln Ser Ile
          20          25          30
Tyr Asn Trp Lys Glu Leu Val Pro Glu Thr Arg Ala His Arg Leu Glu
          35          40          45
Thr Thr Phe Gly Arg Val Leu Thr Phe His Lys Thr Ile Phe Glu Pro
          50          55          60
His Arg Lys Ala Gln Thr Thr Gly Lys Lys Asn Thr Ser Pro Pro Pro
65          70          75          80
Arg Asp Ser Asn Leu Trp Lys Phe Gln Pro Thr Pro Ser Xaa Ala Phe
          85          90          95
Cys Leu Ala Gly Ala Ala Glu Leu Arg Glu Gly Leu Ser Pro Glu Gly
          100          105          110
Asn Pro Ala Gln Ile Thr Pro Pro Arg Gly Gly Pro Pro Ser Pro Gly
          115          120          125
Trp

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<210> 5735
<211> 141
<212> PRT
<213> Enterobacter cloacae

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<400> 5735
Asn Cys Leu Thr Met Lys Asn Met Asn Ser Leu Gly Gln Arg Ile Leu
1          5          10          15
Ala Arg Arg Lys Glu Leu Lys Leu Thr Gln Arg Glu Ala Ala Lys Leu
          20          25          30
Ala Gly Val Ala His Val Thr Ile Ser Gln Trp Glu Arg Asp Glu Thr
          35          40          45
Gln Pro Val Gly Ala Arg Leu Phe Ala Leu Ala Lys Ala Leu Ser Cys
          50          55          60
Thr Pro Thr Trp Leu Met Phe Gly Asp Asp Asp Gln Ala Pro Val Pro
65          70          75          80
Ala Glu Asp Ile Gln Leu Ala Pro Gln Leu Ser Asp Lys His Arg Glu
          85          90          95

```

Leu Ile Asp Leu Tyr Asp Ser Leu Pro Glu Ser Glu Gln Glu Ala Gln
 100 105 110
 Leu Glu Gln Leu Arg Ala Arg Val Lys Asn Phe Asn Lys Leu Phe Glu
 115 120 125
 Glu Leu Leu Lys Ala Arg Gln Arg Gln Ser Lys Lys
 130 135 140

<210> 5736

<211> 420

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (15)

<400> 5736

Asn Gly Leu Gly Asp Ser Cys Pro Gly Leu Met Glu Lys Gly Xaa Trp
 1 5 10 15
 Ile Ser Gly Glu Leu Phe Val Pro Leu Pro Gly Tyr Leu Phe Gly Tyr
 20 25 30
 His Leu Glu Ser Gly Asp Ile Met Lys Met Lys Cys Asn Asn Arg Leu
 35 40 45
 Leu Arg Leu Ser Ala Ser Leu Thr Leu Ile Ser Leu Val Val Thr Ala
 50 55 60
 Ala Asn Ala Asn Asn Gly Gln Ala Gly Ile Ser Pro Val Ala Ala Met
 65 70 75 80
 Thr Met Lys Glu Ser Ile Leu Phe Ala Leu Asp Arg Asp Pro Ser Val
 85 90 95
 Ser Gln Gln Ala Ala Gln Leu Gly Ile Gly Gln Ala Gln Ile Asp Glu
 100 105 110
 Ala Arg Ser Gly Trp Met Pro Gln Ile Ala Leu Asn Gly Arg Thr Gly
 115 120 125
 His Ser Gln Thr Thr Asp Ser Ser Gly Ser Leu Arg Asn Ser Ala Ala
 130 135 140
 Trp Gly Leu Ser Leu Thr Gln Leu Val Tyr Asp Phe Gly Lys Thr Asn
 145 150 155 160
 Asn Ser Ile Ser Gln Ser Ser Ala Gln Arg Asp Ser Tyr Arg Tyr Gln
 165 170 175
 Leu Met Ser Thr Met Ser Ala Val Ala Glu Lys Thr Ala Leu Ser Tyr
 180 185 190
 Val Glu Val Lys Arg Tyr Ser Asp Leu Leu Gln Ala Ala Lys Glu Asn
 195 200 205
 Val Gln Ala Leu Lys Asn Val Glu Gln Leu Ala Lys Leu Arg Ala Asp
 210 215 220
 Ala Gly Val Ser Ser Thr Ser Asp Glu Leu Gln Thr Arg Thr Arg Ile
 225 230 235 240
 Ala Gly Met Gln Ala Thr Val Glu Gln Tyr Asn Ala Ser Leu Asn Ser
 245 250 255
 Ala Arg Ala Arg Leu Ala Val Leu Thr Gly Ile Gln Ala Glu Arg Tyr
 260 265 270
 Ser Pro Val Pro Gly Gly Leu Ala Val Glu Pro Asp Ser Leu Asn Arg
 275 280 285
 Ile Asp Tyr Ser Leu Ile Pro Thr Val Met Ala Ala Gln Asn Met Glu
 290 295 300
 Arg Ser Ala Gln Tyr Gly Val Glu Thr Ala Lys Ser Gln His Trp Pro
 305 310 315 320
 Thr Leu Ser Leu Lys Gly Gly Arg Thr Arg Tyr Glu Ser Asp Asn Arg
 325 330 335
 Ala Tyr Trp Asp Asp Gln Ile Gln Leu Asn Ile Asp Ala Pro Leu Tyr
 340 345 350

Gln Gly Gly Ala Val Ser Ala Arg Val Arg Gln Ala Glu Gly Ala Arg
 355 360 365
 Ala Met Ala Ser Ser Gln Val Asp Gln Ala Arg Phe Asp Val Leu Gln
 370 375 380
 Lys Ile Leu Arg Arg Thr Gly Arg Leu Asp Arg Gly Ala Trp Thr Asn
 385 390 395 400
 Gly Ser Arg Glu Thr Ser Ala Gly Lys Cys Val Ala Arg Pro Arg Cys
 405 410 415
 Leu Gln Lys
 420

<210> 5737
 <211> 399
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (386)

<400> 5737
 Arg Ser Gly Gly Val Thr Gln Gln Ser Lys Thr Ser His Trp Ser Thr
 1 5 10 15
 Ile Met Ser Ile Ser Leu Lys Lys Ser Gly Met Leu Lys Leu Gly Leu
 20 25 30
 Ser Leu Val Ala Met Thr Val Ala Ala Ser Val Gln Ala Lys Thr Leu
 35 40 45
 Val Tyr Cys Ser Glu Gly Ser Pro Glu Gly Phe Asn Pro Gln Leu Phe
 50 55 60
 Thr Ser Gly Thr Thr Tyr Asp Ala Ser Ser Val Pro Ile Tyr Asn Arg
 65 70 75 80
 Leu Val Glu Phe Lys Thr Gly Thr Thr Glu Val Ile Pro Gly Leu Ala
 85 90 95
 Glu Lys Trp Asp Ile Ser Glu Asp Gly Lys Thr Tyr Thr Phe His Leu
 100 105 110
 Arg Gln Gly Val Lys Trp Gln Asp Ser Lys Glu Phe Lys Pro Thr Arg
 115 120 125
 Asp Phe Asn Ala Asp Asp Val Val Phe Ser Phe Asp Arg Gln Lys Asn
 130 135 140
 Ala Gln Asn Pro Tyr His Lys Val Ser Gly Gly Ser Tyr Glu Tyr Phe
 145 150 155 160
 Glu Gly Met Gly Leu Pro Asp Leu Ile Ala Glu Val Lys Lys Val Asp
 165 170 175
 Asp Lys Thr Val Gln Phe Val Leu Thr Arg Pro Glu Ala Pro Phe Leu
 180 185 190
 Ala Asp Leu Ala Met Asp Phe Ala Ser Ile Leu Ser Lys Glu Tyr Ala
 195 200 205
 Asp Asn Met Leu Lys Ala Gly Thr Pro Glu Lys Val Asp Leu Asn Pro
 210 215 220
 Ile Gly Thr Gly Pro Phe Gln Leu Leu Gln Tyr Gln Lys Asp Ser Arg
 225 230 235 240
 Ile Leu Tyr Lys Ala Phe Pro Gly Tyr Trp Gly Thr Lys Pro Gln Ile
 245 250 255
 Asp Arg Leu Val Phe Ser Ile Thr Pro Asp Ala Ser Val Arg Tyr Ala
 260 265 270
 Lys Leu Gln Lys Asn Glu Cys Gln Val Met Pro Tyr Pro Asn Pro Ala
 275 280 285
 Asp Ile Ala Arg Met Lys Gln Asp Lys Asn Ile Asn Leu Leu Glu Gln
 290 295 300
 Ala Gly Leu Asn Val Gly Tyr Leu Ser Phe Asn Thr Glu Lys Lys Pro
 305 310 315 320

Phe Asp Asp Val Lys Val Arg Gln Ala Leu Thr Tyr Ala Val Asn Lys
 325 330 335
 Glu Thr Ile Ile Lys Ala Val Tyr Gln Gly Ala Gly Val Ala Ala Lys
 340 345 350
 Asn Leu Ile Pro Pro Thr Met Trp Gly Tyr Asn Asn Asn Leu Lys Asp
 355 360 365
 Tyr Thr Tyr Asp Pro Glu Lys Thr Glu Thr Val Ala Glu Lys Asn Arg
 370 375 380
 Pro Xaa Thr Arg Leu Tyr Arg Gln Pro Val Cys Asp Ala Gly
 385 390 395

<210> 5738

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 5738

Met Ala Ile Ala Asp Leu Asp Lys Gln Pro Asp Ser Val Ser Ser Val
 1 5 10 15
 Leu Lys Val Phe Gly Ile Leu Gln Ala Leu Gly Glu Glu Arg Glu Ile
 20 25 30
 Gly Ile Thr Glu Leu Ser Gln Arg Val Met Met Ser Lys Ser Thr Val
 35 40 45
 Tyr Arg Phe Leu Gln Thr Met Lys Ser Leu Gly Tyr Val Ala Gln Glu
 50 55 60
 Gly Glu Ser Glu Lys Tyr Ser Leu Thr Leu Lys Leu Phe Glu Leu Gly
 65 70 75 80
 Ala Arg Ala Leu Gln Asn Val Asp Leu Ile Arg Ser Ala Asp Ile Gln
 85 90 95
 Met Arg Glu Leu Ser Arg Leu Thr Lys Glu Thr Ile His Leu Gly Ala
 100 105 110

<210> 5739

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 5739

Asn Ser Tyr Ser Glu Asn Asn Phe Thr Leu Ser His Ser Phe Pro Met
 1 5 10 15
 Gln Lys Asn Val Ser Asp Gly Leu Pro Leu Pro Gln Arg Tyr Gly Ala
 20 25 30
 Ile Ala Thr Ile Val Ile Gly Ile Ser Met Ala Val Leu Asp Gly Ala
 35 40 45
 Ile Ala Asn Val Ala Leu Pro Thr Ile Ala Lys Asp Leu Asn Ala Ser
 50 55 60
 Pro Ala Ser Ser Ile Trp Ile Val Asn Ala Tyr Gln Ile Ala Ile Val
 65 70 75 80
 Ile Ser Leu Leu Ser Leu Ser Phe Leu Gly Asp Met Phe Gly Tyr Arg
 85 90 95
 Arg Val Tyr Gln Cys Gly Leu Val Val Phe Thr Leu Thr Ser Leu Phe
 100 105 110
 Cys Ala Leu Ser Asp Ser Leu His Thr Leu Thr Leu Ala Arg Ile Ala
 115 120 125
 Gln Gly Phe Gly Gly Ala Ala Leu Met Ser Val Asn Thr Ala Leu Ile
 130 135 140
 Arg Leu Ile Tyr Pro His Arg His Leu Gly Arg Gly Met Gly Ile Asn
 145 150 155 160
 Ser Phe Ile Val Ala Val Ser Ser Ala Ala Gly Pro Thr Ile Ala Ala
 165 170 175
 Ala Ile Leu Ser Val Ala Ser Trp Gln Trp Leu Phe Ala Ile Asn Val

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      180      185      190
Pro Leu Gly Ile Val Ala Ile Phe Phe Ala Leu Arg Tyr Leu Pro Glu
      195      200      205
Asn Gly Pro Lys Asn Thr Met Pro Arg Phe Asp Leu Pro Ser Ala Val
      210      215      220
Met Asn Ala Leu Thr Phe Gly Leu Leu Ile Thr Ala Leu Ser Gly Phe
      225      230      235
Ala Gln Gly Gln Ser Leu Ser Leu Ile Ala Ala Glu Ile Val Ala Met
      240      245      250      255
Leu Ile Ile Gly Phe Phe Phe Val Arg Arg Gln Leu Ala Leu Pro Val
      260      265      270
Pro Leu Leu Pro Val Asp Leu Leu Arg Ile Pro Leu Phe Ser Leu Ser
      275      280      285
Ile Cys Thr Ser Ile Cys Ser Phe Cys Ala Gln Met Leu Ala Leu Val
      290      295      300
Ala Leu Pro Phe Phe Leu Gln Ser Val Thr Gly Arg Ser Val Val Ser
      305      310      315      320
Ser Pro Ala Val Glu Val Tyr Leu Pro
      325

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<210> 5740

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 5740

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Asn Asp Ile Ser Ser Gln Pro Gly Ser Lys Met Lys Ile Leu Ile Val
1      5      10      15
Glu Asp Glu Ile Lys Thr Gly Glu Tyr Leu Ser Lys Gly Leu Thr Glu
      20      25      30
Ala Gly Phe Val Val Asp His Ala Asp Asn Gly Leu Thr Gly Tyr His
      35      40      45
Leu Ala Met Thr Ala Glu Tyr Asp Leu Val Ile Leu Asp Ile Met Leu
      50      55      60
Pro Asp Val Asn Gly Trp Asp Ile Ile Arg Met Leu Arg Thr Ala Gly
      65      70      75      80
Lys Gly Met Pro Val Leu Leu Leu Thr Ala Leu Gly Thr Ile Glu His
      85      90      95
Arg Val Lys Gly Leu Glu Leu Gly Ala Asp Asp Tyr Leu Val Lys Pro
      100      105      110
Phe Ala Phe Ala Glu Leu Leu Ala Arg Val Arg Thr Leu Leu Arg Arg
      115      120      125
Gly Asn Thr Met Ile Thr Glu Ser Gln Phe Lys Val Ala Asp Leu Ser
      130      135      140
Ile Asp Leu Val Ser Arg Lys Val Ser Arg Ala Gly Asn Arg Ile Val
      145      150      155      160
Leu Thr Ser Lys Glu Phe Ser Leu Leu Glu Phe Phe Ile Arg His Gln
      165      170      175
Gly Glu Val Leu Pro Arg Ser Leu Ile Ala Ser Gln Val Trp Asp Met
      180      185      190
Asn Phe Asp Ser Asp Thr Asn Ala Ile Asp Val Ala Val Lys Arg Leu
      195      200      205
Arg Ala Lys Ile Asp Asn Asp Tyr Glu Thr Lys Leu Ile Gln Thr Val
      210      215      220
Arg Gly Val Gly Tyr Met Leu Glu Val Pro Asp Ala
      225      230      235

```

<210> 5741

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 5741

Ser Arg Gln Ser Gly Ala Trp Ala Thr Cys Trp Arg Ser Arg Met His
 1 5 10 15
 Ser Lys Pro Ser Arg Arg Pro Phe Ser Leu Ala Leu Arg Leu Thr Phe
 20 25 30
 Phe Ile Ser Leu Ser Thr Ile Leu Ala Phe Ile Ala Phe Thr Trp Phe
 35 40 45
 Met Leu His Ser Val Glu Asn His Phe Ala Glu Gln Asp Val Ser Asp
 50 55 60
 Leu Gln Gln Ile Ser Thr Thr Leu Asn Arg Ile Leu Gln Ser Pro Val
 65 70 75 80
 Asp Pro Asp Asp Lys Lys Ile Ser Lys Ile Lys Glu Ser Ile Ala Ser
 85 90 95
 Tyr Arg Asn Val Ala Leu Leu Leu Leu Asn Pro Arg Gly Gly Ser Ala
 100 105 110
 Leu

<210> 5742

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 5742

Ile Ile Leu Gly Cys His Gly Glu Met Ile Ser Gly Lys Thr Ile Ile
 1 5 10 15
 Ser Val Ile His Tyr Glu Pro Cys Leu Cys Lys Pro Phe Ala Glu Ile
 20 25 30
 Phe Thr Cys Phe Asn Phe Val Phe Asp Asp Gln Tyr Phe His Leu Ala
 35 40 45
 Pro Arg Leu Ala Ala Asn Val Ile Leu Leu Arg Pro Arg Ser Leu Ser
 50 55 60
 Thr Asp Tyr Ser Lys Asn Asp Asn Ile Val Ile Ile Leu Ser Pro Gly
 65 70 75 80
 Lys Gln Arg Ala Leu Gly Lys Val Pro Leu Ser Ile Leu Trp Thr Ser
 85 90 95
 Phe Glu Pro Phe Thr Arg Ser Ala Trp Thr Arg Ser Val Met Phe Lys
 100 105 110
 Leu Lys Leu Ser Ile Ser Thr Ile Phe Ile Leu Ala Gly Cys Val
 115 120 125
 Ser Leu Ala Pro Glu Tyr Gln Arg Pro Ala Ala Pro Val Pro Gln Gln
 130 135 140
 Phe Ser Leu Ser His Asn Ser Leu Thr Pro Ala Val Asn Gly Tyr Gln
 145 150 155 160
 Asp Thr Gly Trp Arg Asn Phe Phe Val Asp Pro Gln Val Thr Arg Leu
 165 170 175
 Ile Gly Glu Ala Leu Thr Asn Asn Arg Asp Leu Arg Met Ala Ala Leu
 180 185 190
 Asn Val Glu Glu Ala Arg Ala Gln Phe
 195 200

<210> 5743

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 5743

Phe Ser Phe Ile Val Arg Val Glu Ser Ala Val Ser Leu Ser Leu Trp
 1 5 10 15
 Gln Gln Cys Leu Ala Arg Leu Gln Asp Glu Leu Pro Ala Thr Glu Phe

Phe Asn Lys Arg Gly Ser Gly Ser Ser Val Val Lys Ile Gln Met Ala
1 5 10 15
Leu Thr Thr Leu Leu Arg Phe Glu His Glu Thr Val Met Pro Pro Glu

<400> 5747
His Gly Ser His Ala Ile Ser Leu Tyr Ser Gln His Ala Phe Asp Pro

```

1           5           10           15
Arg Gln Glu Thr Leu Ile Leu Thr Glu Thr Val Thr Thr Met Ser Lys
20           25           30
Ala Ile Met Gln Gln Thr Tyr Asn Phe Glu Ala Leu His Asp Lys Gly
35           40           45
Leu Ala Glu His Phe Leu Asn Ala Gly Lys His Leu Ser Gly Glu Val
50           55           60
Glu Val Leu Gly Ser Ala Ile Arg Cys Ile Met Leu Thr Gly Asp Asn
65           70           75           80
Leu Ser Asn Lys Glu Ile Ile Leu Gln Leu Ile His Ala Leu Glu Ile
85           90           95
Thr Glu Glu Pro Glu Ala Cys Asp Val Ile Arg Asn Thr Leu Glu Ile
100          105          110
Val Val Gly Phe Thr Arg Asp Asp Ile
115          120

```

<210> 5748

<211> 296

<212> FRT

<213> *Enterobacter cloacae*

<400> 5748

```

Val Val Gln Ile Lys Pro Phe Ile Pro His Arg Lys Val Gly Leu Asp
1           5           10           15
Lys Leu Tyr Leu Ile Arg Val Trp Phe Ser Asp Ala Arg Val Phe Arg
20           25           30
Asp Glu Val Cys Ala Val Lys Asn Asn Pro Gln Gly Phe Ser Asp Ala
35           40           45
Glu Ile Asp Ile Leu Gln Ala Leu His Lys Arg Glu Ile Phe Ala Ala
50           55           60
Tyr Gln Ile Ile Thr Asp Gly Asp Lys Lys Gly Val Gly Phe Glu Ile
65           70           75           80
Leu Leu Arg Trp His Lys Asn Gly Gln Val Leu Lys Ala Ala Gln Phe
85           90           95
Leu Gly Gly Val Lys Asn Gly Glu Ile Trp Leu Lys Leu Thr Ala Leu
100          105          110
Val Ile His Ala Ala Val Ser Gly Ile Asn Arg Tyr Asn Gly Lys Tyr
115          120          125
Tyr Phe Ser Val Asn Ile Pro Pro Leu Ala Thr Gly Asn Ala Leu
130          135          140
Pro Gly Met Ala Lys Lys Ala Val Glu Met Leu Leu Lys Pro Gln Trp
145          150          155          160
Ala Gly Lys Leu Val Phe Glu Leu Ala Glu Ala Ile Asp Val Thr Lys
165          170          175
Asp Pro Asn Ile Pro Val Thr Leu Gln Arg Leu Arg Ala Glu Gly Cys
180          185          190
Arg Leu Phe Leu Asp Asp Cys Phe Ser Arg Asp Tyr Ala Met Leu Pro
195          200          205
Ile Arg Gln Ile Asn Val Asp Gly Leu Lys Leu Asp Arg Asp Ile Val
210          215          220
Glu His Phe Val Ala Asn Asp Asn Asp Tyr Ser Ile Ile Lys Ala Ile
225          230          235          240
Gln Ile Tyr Ser Asp Met Thr Gly Arg Glu Cys Val Ala Glu Gly Val
245          250          255
Asp Ser Glu Glu Lys Phe Lys Lys Leu Val Ala Leu Gly Val Lys Arg
260          265          270
Phe Gln Gly Tyr Tyr Leu Ser Arg Ala Val Lys Glu Glu Glu Leu Asp
275          280          285
Arg Met Val Arg Leu Phe Ser
290          295

```

<210> 5749
 <211> 186
 <212> PRT
 <213> Enterobacter cloacae

<400> 5749
 Thr Asn Val Ile His Ala Thr His Ala Ala Gln Phe Ala Lys Ile Phe
 1 5 10 15
 Gly Val Lys Val Asp Asp Phe Ser Pro Ser Leu Ala Ala Glu Ile Ser
 20 25 30
 Ala Met Phe Glu Ala Ile Ala Asn Gly Arg Asn His Ser Ser Val Tyr
 35 40 45
 Glu Tyr Pro Leu Leu Thr Glu Val Gln Ala Gly Ser Phe Cys Pro Val
 50 55 60
 Asn Thr Tyr Thr Glu Arg Asp Ala Lys Glu Trp Val Ser Thr Thr Val
 65 70 75 80
 Lys Ala Ser Asp Ser Ala Phe Trp Leu Glu Val Ser Gly His Ser Met
 85 90 95
 Thr Ala Pro Pro Gly Val Lys Pro Ser Phe Pro Glu Gly Met Leu Ile
 100 105 110
 Leu Ile Asp Pro Glu Gln Asp Val Glu Pro Gly Asp Phe Cys Val Ala
 115 120 125
 Gly Ile Phe Asn Asp Ser Glu Val Thr Phe Lys Lys Tyr Val Arg Glu
 130 135 140
 Asp Gly Lys Pro Trp Leu Glu Pro Leu Asn Pro Ser Pro Arg Tyr Gln
 145 150 155 160
 Ala Ile Glu Cys Asn Glu Asn Cys Arg Ile Ile Gly Lys Val Val Lys
 165 170 175
 Ala Gln Trp Pro Glu Asn Ile Phe Glu
 180 185

<210> 5750
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(133)

<220>
 <221>UNSURE
 <222>(135)

<220>
 <221>UNSURE
 <222>(156)

<400> 5750
 Lys Ser Ser Gly Arg Arg Trp Leu Phe Gly Cys Cys Arg Ala Gly Ala
 1 5 10 15
 Val Arg Leu Phe Leu Cys Arg Cys Val Ala Gly Phe Val Leu Leu Gly
 20 25 30
 Gly Pro Phe Pro Ala Ala Val Pro Arg Leu Leu Leu Arg Val Leu Leu
 35 40 45
 Phe Arg Arg Cys Pro Arg Trp Ser Arg Leu Arg Leu Ala Cys Ala Gly
 50 55 60
 Phe Arg Val Ala Val Phe Val Arg Arg Ala Ser Phe Gly Phe Ala Phe
 65 70 75 80
 Cys Ser Cys Pro Ser Val Leu Ser Arg Phe Arg Trp Cys Val Leu Trp
 85 90 95

Ala Leu Arg Arg Leu Lys Arg Gly Met Glu Gln Ala Gln Pro Leu Ser
 100 105 110
 Thr Phe Leu Phe Asn Ser Leu Met Pro Gln Val Asp Leu Ser Thr Pro
 115 120 125
 Val Arg Arg Ala Xaa Leu Xaa Thr Leu Ala Leu Pro Leu Ile Ser His
 130 135 140
 Val Pro Gly Glu Thr Leu Arg Ile Tyr Leu Arg Xaa
 145 150 155

<210> 5751
 <211> 110
 <212> PRT
 <213> Enterobacter cloacae

<400> 5751
 Phe Phe Leu Ser Ala Leu Gly Gly Glu Asn Leu Arg Val Val Asp Gly
 1 5 10 15
 Phe Leu Asp Val Val Ala Leu Ala Leu Phe Val Phe Phe Ala Val
 20 25 30
 Ala Ser Leu Gly Ser Ser Ser Ser Ala Val Leu Phe Leu Leu Phe
 35 40 45
 Arg Val Ser Phe Phe Val Phe Cys Cys Phe Asp Gly Val Arg Ala Gly
 50 55 60
 Leu Val Ser Ala Trp Arg Ala Leu Val Ser Ala Leu Pro Phe Leu Ser
 65 70 75 80
 Val Gly Arg Pro Leu Val Ser Leu Phe Val Pro Ala Arg Arg Cys Cys
 85 90 95
 Pro Gly Phe Ala Gly Ala Phe Cys Gly Leu Cys Gly Val
 100 105 110

<210> 5752
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 5752
 Gly His Arg Asn Ser Gly His Trp Cys Gly Thr Ser Ser Arg Ser Leu
 1 5 10 15
 Leu Gln Ile Pro Gly Cys Leu Ser Met Phe Ala Leu Val Asp Val Asn
 20 25 30
 Ser Phe Tyr Ala Ser Cys Glu Thr Val Phe Arg Pro Asp Leu Arg Gly
 35 40 45
 Lys Pro Val Val Val Leu Ser Asn Asn Asp Leu Ser Gly Glu Lys Cys
 50 55 60

65

<210> 5753
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 5753
 Ser Gly Asp Lys Met Tyr Ile Ser Glu Ile Gln Ile Glu Asn Phe Arg
 1 5 10 15
 Leu Phe Asp Ser Ala Glu Lys Ala Phe Val Leu Ser Leu Asn Pro Gly
 20 25 30
 Leu Thr Ala Leu Val Gly Glu Asn Asp Ala Gly Lys Thr Ala Val Ile
 35 40 45
 Asp Ala Leu Arg Leu Val Leu Gly Thr Arg Asp Gln Glu Met Leu Arg
 50 55 60

Ile Asp Met Leu Ile Met His His Trp Gly Glu Ala Lys Ser Arg Thr
 65 70 75 80
 Ser Pro Phe Arg Ser
 85

<210> 5754

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 5754

Gly Tyr Asn Met Ala Phe Lys Phe Lys Thr Phe Ala Ala Val Gly Ala
 1 5 10 15
 Leu Ile Gly Ser Leu Ala Leu Val Gly Cys Gly Gln Asp Glu Lys Asp
 20 25 30
 Pro Asn His Ile Lys Val Gly Val Ile Val Gly Ala Glu Gln Gln Val
 35 40 45
 Ala Glu Ala Ala Gln Lys Ile Ala Lys Glu Lys Tyr Gly Leu Asp Val
 50 55 60
 Glu Leu Val Thr Phe Asn Asp Tyr Val Leu Pro Asn Glu Ala Leu Ser
 65 70 75 80
 Lys Gly Asp Ile Asp Ala Asn Ala Phe Gln His Lys Pro Tyr Leu Asp
 85 90 95
 Gln Gln Ile Lys Asp Arg Gly Tyr Lys Leu Val Ala Val Gly Asn Thr
 100 105 110
 Phe Val Tyr Pro Ile Ala Gly Tyr Ser Lys Lys Ile Lys Ser Leu Asp
 115 120 125
 Glu Leu Gln Pro Gly Ser Gln Val Ala Val Pro Asn Asp Pro Thr Asn
 130 135 140
 Leu Gly Arg Ser Leu Leu Leu Leu Gln Lys Val Gly Leu Ile Lys Leu
 145 150 155 160
 Lys Glu Gly Val Gly Leu Leu Pro Thr Val Leu Asp Val Thr Glu Asn
 165 170 175
 Pro Lys Asn Leu Lys Ile Val Glu Leu Glu Ala Pro Gln Leu Pro Arg
 180 185 190
 Ser Leu Asp Asp Ala Gln Ile Ala Leu Ala Val Ile Asn Thr Thr Tyr
 195 200 205
 Ala Ser Gln Ile Gly Leu Thr Pro Ala Lys Asp Gly Ile Phe Val Glu
 210 215 220
 Asp Lys Asp Ser Pro Tyr Val Asn Leu Ile Val Thr Arg Glu Asp Asn
 225 230 235 240
 Lys Asp Ala Glu Asn Val Lys Lys Phe Ile Gln Ala Tyr Gln Ser Glu
 245 250 255
 Glu Val Tyr Gln Glu Ala Asn Lys Val Phe Asn Gly Gly Ala Val Lys
 260 265 270
 Gly Trp
 275

<210> 5755

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 5755

Asn Ser Arg Arg Gly Ser Ser Ser Pro Val Val Lys Thr Pro Val Arg
 1 5 10 15
 Gly Val Ala Ser Leu Lys Ser Asn Pro Asp Gly Ala Ser Cys Leu Gly
 20 25 30
 Pro Met Ala Gly Leu Glu Lys Gln Arg Glu Gln Tyr Ser His Ala Val
 35 40 45
 Gln Ala Leu Ser Asp Pro Asp Arg Thr Arg Leu Val Leu Val Ala Arg

```

      50      55      60
Leu Gln Lys Ser Thr Leu Gln Glu Val Ala Arg Thr His Asp Glu Leu
65      70      75      80
Ala Ala Ile Gly Leu Lys Asn Gln Tyr Leu Val Ile Asn Gly Val Leu
      85      90      95
Pro Glu Thr Glu Ala Val Asn Asp Thr Leu Ala Ala Ala Ile Trp Gly
      100      105      110
Arg Glu Gln Glu Ala Leu Ala Ser Leu Pro Ala Gly Leu Asp Ala Leu
      115      120      125
Pro Thr Asp Thr Leu Phe Leu Gln Pro Val Asn Met Val Gly Val Ser
      130      135      140
Ala Leu Arg Gly Leu Leu Thr Ser Gln Pro Glu Thr Ala Ser Phe Ala
      145      150      155      160
Glu Val Ser Ala Leu Gln Lys Pro Ala Ile Ser Ser Leu Ser Ala Leu
      165      170      175      180
Val Asp Glu Ile Ala Leu Asn Glu His Gly Leu Ile Met Leu Met Gly
      185      190      195
Lys Gly Gly Val Gly Lys Thr Thr Met Ala Ala Ala Ile Ala Val Arg
      200      205      210
Leu Ala Glu Met Gly Phe Asp Val His Leu Thr Thr Ser Asp Pro Ala
      215      220      225
Ala His Leu Ser Thr Thr Leu Asn Gly Ser Leu Asn Asn Leu Gln Val
      230      235      240
Ser Arg Ile Asp Pro His Asp Glu Thr Glu Arg Tyr Arg Gln His Val
      245      250      255
Leu Glu Thr Lys Gly Arg Asp Leu Asp Glu Ala Gly Lys His Leu Leu
      260      265      270
Glu Glu Asp Leu Arg Ser Pro Cys Thr Glu Glu Ile Ala Val Phe Gln
      275      280      285
Ala Phe Ser Arg Val Ile Arg Glu Ala Gly Lys Arg Phe Val Val Met
      290      295      300
His Thr Ser Ser Pro Ser
      305      310

```

<210> 5756

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 5756

```

Asn Arg Asn Thr Thr Ser Ala Glu Lys Val Glu Asn Val Val Lys Pro
1      5      10      15
Pro Gln Lys Pro Val Val Ile Arg Thr Phe His Ile Gly Ser Met Leu
      20      25      30
Val Met Arg Leu Asn Gln Ala Ser Pro Ile Pro Ile Ile Asn Ala Pro
      35      40      45
Ile Arg Phe Ala Ala Ser Val Pro Ile Gly Met Ala
      50      55      60

```

<210> 5757

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 5757

```

Cys Arg Gly Leu Asn Arg Met Leu Lys Ser His Arg Ala Thr Leu Pro
1      5      10      15
Val Pro Pro Pro Ile Lys Thr Ala Ile Ser Ser Cys Asn Thr Val Asn
      20      25      30
Thr Cys Tyr Leu Leu Cys Lys Cys Val Glu Cys Asn Ala Val Phe Asp
      35      40      45

```

Arg Glu Thr Ile Met Tyr Val Ala Val Gly Gln Phe Ala Val Thr Pro
 50 55 60
 Asp Trp Asn Glu Asn Ala Glu Lys Cys Val Ser Leu Met His Ala Ala
 65 70 75 80
 Lys Gln Lys Gly Ala Ser Leu Leu Val Leu Pro Glu Ala Leu Leu Ala
 85 90 95
 Arg Asp Asp Gly Asp Pro Asp Leu Ser Val Lys Ser Ala Gln Thr Leu
 100 105 110
 Glu Gly Ala Phe Leu Lys Arg Leu Leu Ala Glu Ser Val Gly Asn Thr
 115 120 125
 Leu Thr Thr Ile Leu Thr Val His Ile Pro Ser Ser Pro Gly Arg Ala
 130 135 140
 Val Asn Thr Leu Val Ala Ile Arg Glu Gly Ala Ile Val Ala Ser Tyr
 145 150 155 160
 Ala Lys Leu His Leu Tyr Asp Ala Phe Ser Val Gln Glu Ser Arg Leu
 165 170 175
 Val Asp Pro Gly Ser Val Ile Pro Pro Leu Ile Glu Val Glu Gly Phe
 180 185 190
 Lys Val Gly Leu Met Thr Cys Tyr Asp Ile Arg Phe Pro Glu Leu Ala
 195 200 205
 Leu Asn Leu Ala Leu Gln Gly Ala Glu Val Leu Val Leu Pro Ala Ala
 210 215 220
 Trp Val Lys Gly Pro Leu Lys Glu His His Trp Ala Thr Leu Leu Ala
 225 230 235 240
 Ala Arg Ala Leu Asp Thr Thr Cys Tyr Val Val Ala Ala Gly Glu Cys
 245 250 255
 Gly Asn Lys Asn Ile Gly Gln Ser Arg Val Val Asp Pro Leu Gly Val
 260 265 270
 Thr Val Val Ala Ala Ala Glu Thr Pro Ala Leu Leu Leu Thr Glu Ile
 275 280 285
 Ile Ser Ala Arg Ile Ala Leu Ala Arg Gln Gln Leu Pro Val Leu Arg
 290 295 300
 Asn Arg Arg Phe Ala Pro Pro Gln Leu Met
 305 310 315

<210> 5758

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 5758

Gln Val Leu Thr Val Leu Gln Leu Leu Ile Ala Val Phe Ile Gly Gly
 1 5 10 15
 Gly Thr Gly Ser Val Ala Arg Trp Leu Leu Ser Met Arg Phe Asn Pro
 20 25 30
 Leu His Gln Ala Ile Pro Met Gly Thr Leu Ala Ala Asn Leu Ile Gly
 35 40 45
 Ala Phe Ile Ile Gly Met Gly Leu Ala Trp Phe Asn Arg Met Thr Asn
 50 55 60
 Ile Asp Pro Met Trp Lys Val Leu Ile Thr Thr Gly Phe Cys Gly Gly
 65 70 75 80
 Leu Thr Thr Phe Ser Thr Phe Ser Ala Glu Val Val Phe Leu Phe Gln
 85 90 95
 Glu Gly Arg Met Gly Trp Ala Leu Thr Asn Ile Ala Val Asn Met Leu
 100 105 110
 Gly Ser Phe Ala Met Thr Ala Ile Ala Phe Trp Leu Phe Ser Ser Ala
 115 120 125
 Ser Gly His
 130

<210> 5759

<211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 5759

```

Leu His Met Asn Ile Leu Ile Thr Thr Thr Ala Phe Thr Ala Leu Phe
1          5          10          15
Cys Gly Ala Ala Phe Ala Gln Ser Ser Asp Ile Ala His Glu Ala His
          20          25          30
Arg Phe Val Asn Asn Ala Ser Ala Val Ser His Val Asn Ser Ser Thr
          35          40          45
His Glu Asn Leu Pro Asp Arg Val Asn Lys Asn Asn Thr Pro Ser Phe
          50          55          60
Ser Glu Met Asn Glu His Glu Arg Ala Ile Val Ala His Ser Phe Met
          65          70          75          80
Asn Asn Ser Ala Ser Tyr Ala His Gln Lys Met Ile Glu Glu His Lys
          85          90          95
Lys Met Leu Ser Gly Ser Asp Ala Asn Ser Lys Thr Ser Ser Ser Ser
          100          105          110
Phe Asn Glu Leu Asn Ala Gly Glu Lys Ala Ala Leu Val His Glu Gln
          115          120          125
Val Asn Asn Ala Gly Ala Glu Ala His Gln Thr Gln Ala Arg Lys Leu
          130          135          140
Arg Gly Leu Tyr Ser Thr Arg
145          150

```

<210> 5760
 <211> 279
 <212> PRT
 <213> Enterobacter cloacae

<400> 5760

```

Thr Pro Pro Cys Thr Leu Val Leu Pro Ala Gly Trp Gly Arg Pro Ile
1          5          10          15
Ala Gly Ala Gly Gly Arg Met Gly Arg Gln Leu Ile Gln Ala Ala Leu
          20          25          30
Gln Met Asp Gly Val Ala Leu Gly Ala Ala Leu Glu Arg Glu Gly Ser
          35          40          45
Ser Leu Leu Gly Ala Asp Ala Gly Glu Leu Ala Gly Ala Gly Lys Thr
          50          55          60
Gly Val Thr Val Gln Ser Ser Leu Glu Ala Val Lys Glu Asp Phe Asp
          65          70          75          80
Val Phe Ile Asp Phe Thr Arg Pro Glu Gly Thr Leu Ala His Leu Ala
          85          90          95
Phe Cys Arg Gln His Gly Lys Gly Met Val Ile Gly Thr Thr Gly Phe
          100          105          110
Asp Asp Ala Gly Lys Gln Ala Ile Gln Asp Ala Ala Thr Asp Ile Ala
          115          120          125
Ile Val Phe Ala Ala Asn Phe Ser Val Gly Val Asn Val Met Leu Lys
          130          135          140
Leu Leu Glu Lys Ala Ala Lys Val Met Gly Asn Tyr Thr Asp Ile Glu
          145          150          155          160
Ile Val Glu Ala His His Arg Tyr Lys Val Asp Ala Pro Ser Gly Thr
          165          170          175
Ala Leu Ala Met Gly Glu Ala Ile Ala His Ala Leu Asp Arg Asp Leu
          180          185          190
Lys Glu Cys Ala Val Tyr Thr Arg Glu Gly His Thr Gly Glu Arg Val
          195          200          205
Pro Gly Thr Ile Gly Phe Ala Thr Val Arg Ala Gly Asp Ile Val Gly
          210          215          220
Glu His Thr Ala Met Phe Ala Asp Ile Gly Glu Arg Val Glu Ile Thr

```

[illegible]

```
<210> 5761
<211> 130
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

```
<210> 5762
<211> 423
<212> PRT
<213> Enterobacter cloacae
```

<220>
<221> UNSURE
<222> (417)

400> 5762																	
Cys	Met	Glu	Phe	Ser	Val	Lys	Ser	Gly	Ser	Pro	Glu	Lys	Gln	Arg	Ser		
1				5					10					15			
Ala	Cys	Ile	Val	Val	Gly	Val	Phe	Glu	Pro	Arg	Arg	Leu	Ser	Pro	Ile		
			20					25					30				
Ala	Glu	Gln	Leu	Asp	Lys	Ile	Ser	Asp	Gly	Tyr	Ile	Ser	Ala	Leu	Leu		
			35				40					45					
Arg	Arg	Gly	Glu	Leu	Glu	Gly	Lys	Pro	Gly	Gln	Thr	Leu	Leu	Leu	His		
	50					55					60						
His	Val	Pro	Asn	Val	Leu	Ser	Glu	Arg	Ile	Leu	Leu	Ile	Gly	Cys	Gly		
					70					75				80			
Lys	Glu	Arg	Glu	Leu	Asp	Glu	Arg	Gln	Tyr	Lys	Gln	Val	Ile	Gln	Lys		
				85					90					95			
Thr	Ile	Asn	Thr	Leu	Asn	Asp	Thr	Gly	Ser	Met	Glu	Ala	Val	Cys	Phe		
			100					105					110				
Leu	Thr	Glu	Leu	His	Val	Lys	Gly	Arg	Asn	Thr	Tyr	Trp	Lys	Val	Arg		
			115				120					125					
Gln	Ala	Val	Glu	Thr	Ala	Lys	Glu	Ser	Leu	Tyr	Ser	Phe	Asp	Gln	Leu		
			130			135						140					

Lys Thr Thr Lys Ser Glu Pro Arg Arg Pro Leu Arg Lys Met Val Phe
 145 150 155 160
 Asn Val Pro Thr Arg Arg Glu Leu Thr Ser Gly Glu Arg Ala Ile Gln
 165 170 175
 His Gly Leu Ala Ile Ala Ala Gly Ile Lys Ala Ala Lys Asp Leu Gly
 180 185 190
 Asn Met Pro Pro Asn Ile Cys Asn Ala Ala Tyr Leu Ala Ser Gln Ala
 195 200 205
 Arg Gln Leu Ala Asp Ala Tyr Ser Lys Asn Val Ile Thr Arg Val Ile
 210 215 220
 Gly Glu Gln Gln Met Lys Glu Leu Gly Met His Ser Tyr Leu Ala Val
 225 230 235 240
 Gly Asn Gly Ser Gln Asn Glu Ser Leu Met Ser Val Ile Glu Tyr Lys
 245 250 255
 Gly Asn Pro Ser Glu Asp Ala Arg Pro Ile Val Leu Val Gly Lys Gly
 260 265 270
 Leu Thr Phe Asp Ser Gly Gly Ile Ser Ile Lys Pro Ser Glu Gly Met
 275 280 285
 Asp Glu Met Lys Tyr Asp Met Cys Gly Ala Ala Val Tyr Gly Val
 290 295 300
 Met Arg Met Val Ala Glu Leu Gln Leu Pro Ile Asn Val Ile Gly Val
 305 310 315 320
 Leu Ala Gly Cys Glu Asn Met Pro Gly Gly Arg Ala Tyr Arg Pro Gly
 325 330 335
 Asp Val Leu Thr Thr Met Ser Gly Gln Thr Val Glu Val Leu Asn Thr
 340 345 350
 Asp Ala Glu Gly Arg Leu Val Leu Cys Asp Val Leu Thr Tyr Val Glu
 355 360 365
 Arg Phe Glu Pro Glu Ala Val Ile Asp Val Ala Thr Leu Thr Gly Ala
 370 375 380
 Cys Val Ile Ala Leu Gly His His Ile Thr Gly Leu Met Ser Asn His
 385 390 395 400
 Asn Pro Val Pro His Gly Pro Ile Gly Ala Phe Val Thr Thr Ala Val
 405 410 415
 Xaa Gly Pro Gln Tyr Trp Val
 420

<210> 5763

<211> 701

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (86)

<400> 5763

Pro Pro Gly Ala Ala Phe Ala Ala Ser Thr Glu Asp Thr Val Val
 1 5 10 15
 Val Asp Gly Gly Phe Asp Asn Thr Gln Asp Leu Ser Ala Ser Gln Asp
 20 25 30
 Gln Asp Tyr Ser Val Lys Thr Thr Thr Thr Gly Thr Lys Leu Leu Leu
 35 40 45
 Val Pro Arg Asp Ile Pro Gln Ser Val Ser Val Ile Ser Gln Gln Arg
 50 55 60
 Met Ala Asp Gln Asn Leu Gln Ser Ile Gly Gln Val Leu Thr Asn Thr
 65 70 75 80
 Thr Gly Ile Thr Ala Xaa Val Glc Asp Ser Asp Arg Thr Val Phe Tyr
 85 90 95
 Ser Arg Gly Phe Phe Val Ser Asn Tyr Ala Tyr Asp Asp Leu Pro Thr
 100 105 110

Ser Ile Ser Glu Val Trp Asn Phe Gly Asp Thr Ala Ala Asp Thr Ala
 115 120 125
 Ile Tyr Asp Arg Ile Glu Val Val Arg Gly Ala Thr Gly Leu Met Ser
 130 135 140
 Gly Thr Gly Asn Pro Ala Ala Tyr Val Asn Met Val Arg Lys His Ala
 145 150 155 160
 Asp Ser Pro Glu Phe Lys Gly Asn Val Ser Ala Ser Tyr Gly Ser Trp
 165 170 175
 Asp Lys Gln Arg Tyr Val Leu Asp Leu Gln Ala Pro Leu Val Glu Ser
 180 185 190
 Gly Lys Val Arg Gly Arg Leu Ile Thr Gly Tyr Gln Asp Asn Asp Ser
 195 200 205
 Phe Val Asp Asn Tyr His Tyr Arg Lys Lys Phe Leu Tyr Gly Val Met
 210 215 220
 Asp Ala Asp Val Thr Asp Ser Thr Thr Leu Ser Val Gly Tyr Glu Tyr
 225 230 235 240
 Gln Glu Ser His Thr Ala Asp Pro Thr Trp Gly Gly Leu Pro Thr Trp
 245 250 255
 Tyr Ser Asp Gly Ser Lys Asn His Tyr Asn Arg Ser Gln Thr Val Ala
 260 265 270
 Pro Asp Trp Ala Tyr Ser Asp Lys Asp Ser Thr Arg Ile Phe Ala Asn
 275 280 285
 Leu Thr Gln Arg Phe Asp Asn Gly Trp Glu Ala His Ile Asn Gly Met
 290 295 300
 His Ala Glu Thr Asn Phe Asp Ser Lys Leu Met Tyr Met Ser Gly Tyr
 305 310 315 320
 Pro Asp Lys Glu Thr Gly Ala Gly Leu Val Gly Tyr Gly Gly Trp Asn
 325 330 335
 Arg Gly Glu Arg Lys Gln Asp Ala Val Asp Ala Phe Leu Arg Gly Gly
 340 345 350
 Phe Asp Leu Phe Gly Arg Gln His Glu Met Met Phe Gly Ser Phe
 355 360 365
 Ser Arg Gln Arg Asn His Tyr Asp Asn Ser Met Pro Asp Ala Val Tyr
 370 375 380
 Gly Met Val Asp Val Gly Asn Phe Lys Asn Trp Asn Gly Asn Ile Ala
 385 390 395 400
 Asp Pro Gln Trp Thr Pro Trp Lys Leu Tyr Ser Lys Asp Asp Ile Arg
 405 410 415
 Gln Ser Ser Ala Tyr Ser Ser Ala Arg Phe Ser Leu Ala Asp Pro Leu
 420 425 430
 His Leu Ile Leu Gly Ala Arg Tyr Thr Gln Tyr Asn Ile Arg Tyr Asn
 435 440 445
 Pro Ala Gly Ser Pro Asn Thr Arg Leu Glu Ser Thr Lys Asp Asp Val
 450 455 460
 Thr Pro Tyr Ala Gly Leu Val Tyr Asp Ile Asn Glu Asp Trp Ser Thr
 465 470 475 480
 Tyr Val Ser Tyr Thr Ser Ile Phe Gln Pro Gln Asp Asn Arg Asp Ala
 485 490 495
 Ser Gly Arg Tyr Leu Asp Pro Thr Thr Gly Lys Ser Tyr Gln Ala Gly
 500 505 510
 Val Lys Ala Asp Trp Phe Asn Thr Arg Leu Asn Asn Ser Leu Ala Ile
 515 520 525
 Phe Arg Ile Glu His Asp Asn Val Ala Ser Asn Thr Tyr Thr Tyr Leu
 530 535 540
 Pro Ser Gly Glu Ser Ile Tyr Glu Ser Leu Asp Gly Val Val Ser Lys
 545 550 555 560
 Gly Val Glu Phe Glu Leu Asn Gly Ala Leu Thr Asp Asn Trp Gln Leu
 565 570 575
 Thr Phe Gly Ala Thr Arg Tyr Ile Ala Glu Asp Lys Asn Gly Asn Ala
 580 585 590
 Val Ser Ser Asp Gln Pro Arg Thr Thr Met Lys Leu Phe Thr Arg Tyr

```

          595                600                605
Gln Leu Pro Met Leu Pro Glu Leu Thr Val Gly Gly Gly Val Asn Trp
610                615                620
Gln Asn Lys Val Trp Thr Asp Val Glu Gly Gly Pro Ala Gly Arg Ser
625                630                635                640
Arg Ala Glu Gln Gly Ser Tyr Gly Leu Val Asn Leu Phe Ser Arg Tyr
          645                650                655
Gln Val Thr Lys Asp Phe Ala Val Gln Ala Asn Val Asn Asn Leu Phe
660                665                670
Asp Lys Glu Tyr Tyr Asp Tyr Val Gly Ser Tyr Ala Val Tyr Gly Ala
675                680                685
Pro Leu Asn Val Ser Val Ser Ala Ser Tyr Asp Phe
690                695                700

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<210> 5764

<211> 164

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (115)

<400> 5764

```

Trp Thr Leu Ser Met Ser Asn Thr Leu Gln Pro Arg Arg Ala Arg Ala
1                5                10                15
Ser Tyr Ser Met Asp Phe Lys Leu Ala Leu Val Glu Lys Ser Tyr Gln
          20                25                30
Pro Gly Ala Cys Val Ala Arg Leu Ala Arg Asp Asn Gly Ile Asn Asp
35                40                45
Asn Leu Leu Phe Thr Trp Arg Gln Arg Tyr Arg His Leu Leu Pro Asp
50                55                60
Glu Ile Gln Arg Ser Ile Arg Glu Gln Asp Ser Val Ile Pro Val Val
65                70                75                80
Leu Pro Asp Met Ala Leu Ser His His Ala Glu Pro His Tyr Glu Thr
          85                90                95
Ala Ala Pro Ala Cys Arg Glu Ala Met Thr Cys Asp Val Thr Val Gly
100                105                110
Gly Gly Xaa Leu Arg Leu Ser Gly Gly Phe Ile Thr Leu His Phe Leu
115                120                125
Lys Thr Leu Ile Arg Ala Pro Asp Arg Gly Gly Ser Arg Met Ile Pro
130                135                140
Leu Thr Val Arg Ala Leu Arg Ile Leu Ala Gly Leu Pro Gly Phe Pro
145                150                155                160
Lys Asn Ala

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<210> 5765

<211> 242

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (183)

<220>

<221> UNSURE

<222> (217)

<400> 5765

```

Ile Ser Pro Pro Val Asn Thr Leu Ala Leu Gly Tyr Ala Ala Phe Arg
1      5      10      15
Phe Gly Arg Arg Glu Ala Asp Ser Lys Arg Thr Phe Gly Tyr Leu Arg
20      25      30
Phe Glu Val Ile Ala Gly Phe Phe Asn Ala Leu Thr Leu Phe Ala Ile
35      40      45
Val Ala Trp Ile Ala Tyr Glu Ala Trp Glu Arg Leu Gln Ala Pro Pro
50      55      60
Ala Ile Leu Ala Gly Pro Met Leu Ile Val Ala Ile Val Gly Leu Leu
65      70      75      80
Val Asn Val Leu Val Leu Trp Ile Met Thr Arg Gly Glu Thr Asp His
85      90      95
Val Asn Val Lys Gly Ala Ile Leu His Val Met Gly Asp Leu Leu Gly
100      105      110
Ser Val Gly Ala Ile Val Ala Ala Ile Val Ile Tyr Tyr Thr Gly Trp
115      120      125
Thr Pro Ile Asp Pro Ile Leu Ser Val Leu Val Ala Ala Leu Val Leu
130      135      140
Arg Ser Ala Trp Lys Leu Leu Ala Lys Ser Leu His Ile Leu Leu Glu
145      150      155      160
Gly Ala Pro Glu Asn Ala Ser Pro Asp Lys Val Lys Gln Arg Leu Ile
165      170      175
Asn Ser Val Gln Gly Leu Xaa Ala Val Ser His Ile His Val Trp Gln
180      185      190
Ile Thr Ser Gly Arg Ile Met Ala Thr Leu Glu Val Arg Ala Lys Glu
195      200      205
Asp Val Asp Val Lys Asp Val Val Xaa Leu Val Lys Gln Glu Leu Tyr
210      215      220
Glu His Phe Lys Asn Arg Thr Arg Asn Cys Gly His Arg Leu Glu Leu
225      230      235      240
Arg

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<210> 5766

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5766

```

Cys Thr Thr Asn Ser Gly Gly Arg Thr Ile Met Ser Asn Thr Ser Asp
1      5      10      15
Cys Gly Asn Val Arg Asn Cys Ser Ala Thr Asp Tyr Gly Thr Glu Pro
20      25      30
Asp Leu Ser Met Leu Ser Gln Asn Glu Ile Gly Leu Leu Ser Glu Ile
35      40      45
Phe His Leu Leu Gly Asp Gln Ser Arg Leu Arg Ile Leu Leu Tyr Cys
50      55      60
Met Arg Gly Ser Val Ser Val Gly Asp Ile Ala Glu Ser Leu Gln Leu
65      70      75      80
Ser Gln Ser Leu Val Ser His His Leu Arg Leu Leu Arg Gly Ala Arg
85      90      95
Leu Val Arg Gly Glu Arg Lys Gly Lys Tyr Ile Phe Tyr Ser Ile Met
100      105      110
Asp Gln His Val Ser His Val Leu Gln Asp Met Ala Phe His Ile Ala
115      120      125
Glu
130

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<210> 5767

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 5767

Lys Thr Val Asn Val Asp Trp Phe Ile Ala Glu Arg Ser Gly Lys Val
 1 5 10 15
 Arg Ile Leu Lys Glu His Pro Arg Lys Asn Lys Ala Ala Ile Ile Leu
 20 25 30
 Glu Tyr Leu Lys Ala Ser Ile Arg Ala Lys Val Glu His Pro Phe Arg
 35 40 45
 Val Ile Ile Arg Gln Phe Gly Phe Ile Lys Ala Arg Tyr Lys Gly Leu
 50 55 60
 Met Lys Asn Asp Ser Gln Leu Ala Met Leu Phe Thr Leu Ala Asn Leu
 65 70 75 80
 Phe Lys Val Asp Gln Met Ile Arg Arg Gln Thr Lys Ser Ala
 85 90 95

<210> 5768

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 5768

Pro Ala Thr Ile Val Ile Val Ser Leu Pro Asp Thr Tyr Ser Ser Val
 1 5 10 15
 Arg Glu Ala Ile Phe Val Pro Phe Gln Arg Thr Gly Val Asn Met Gln
 20 25 30
 Lys Ile Val Ile Val Ala Asn Gly Ala Ala Tyr Gly Ser Glu Ser Ile
 35 40 45
 Arg Asn Ser Leu Arg Gln Ala Ile Ala Gln Arg Glu Lys Glu Arg Glu
 50 55 60
 Gln Glu Gln Arg His Lys Lys Lys Thr Asp Ala Val Thr Ala Gly Gly
 65 70 75 80
 Cys Arg Arg Gly Lys Asn Pro Gln Arg Ala Thr Thr Ile Asn Lys Ser
 85 90 95
 Arg Arg Ser Arg Pro Arg Lys Thr Asn Arg Thr Asn Arg Ala Lys Pro
 100 105 110
 Glu Pro Thr Gly Glu Ala Lys Pro Gly Ser Arg Arg Lys Lys Glu Arg
 115 120 125
 Lys Lys Glu Arg Arg Arg Ser Arg Gln Lys Gly Arg Asn Pro Ala Gly
 130 135 140

145

<210> 5769

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 5769

Met Leu Gly Lys Gln Val Ala Gln Cys Val Pro Ala Gly Ser Thr Leu
 1 5 10 15
 Phe Leu Asp Ala Gly Ser Trp Leu Leu Ala Val Ala Ser Phe Leu Gln
 20 25 30
 Gly Pro Leu Thr Ile Ile Thr Pro Ser Leu Asp Ile Ala Gln Gln Val
 35 40 45
 Ser Asp Arg Glu Gly Ile Asp Leu Ile Leu Leu Gly Gly Lys Trp Asp
 50 55 60
 Gln Lys Gln Arg Leu Phe Ala Gly Ser Ala Thr Leu Ser Leu Leu Ser
 65 70 75 80
 Arg Tyr Arg Ala Asp Ile Ala Ile Leu Gly Ala Cys Ala Ile His Ala
 85 90 95

Glu Leu Gly Leu Ser Ala Ser Gln Glu Ala Asp Ala Glu Val Lys Arg
 100 103 110
 Ala Met Leu Ala Ala Ser Gln Ala His Trp Val Val Ala Asp His Leu
 115 120 125
 Lys Leu Asn Gln Cys Glu Pro Tyr Leu Val Ser Gly Leu Ser Glu Ile
 130 135 140
 His Gln Leu Phe Leu Asp Arg Pro Trp Ala Glu Leu Gly Asp His Ser
 145 150 155 160
 Ala Val Gln Val Thr Val Cys Ala His
 165 170

<210> 5770

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 5770

Ile Val Pro Gly Gln Ser Ser Gly Thr Ile Ala Pro Cys Arg Leu Pro
 1 5 10 15
 Phe Ala His Ile Asn Val Glu Lys Val Met Asn Lys Val Lys Thr Met
 20 25 30
 Asn Ile Ala Leu Ile Gly Tyr Gly Phe Val Gly Lys Thr Phe His Ala
 35 40 45
 Pro Leu Ile Gln Ser Val Asp Gly Leu Lys Leu Ala Val Ile Ser Ser
 50 55 60
 Arg Asp Glu Glu Lys Val Lys Arg Asp Leu Pro Asp Val Leu Val Val
 65 70 75 80
 Ala Thr Pro Glu Glu Ala Ile Gln His Pro Asp Ile Asp Leu Val Val
 85 90 95
 Ile Ala Ser Pro Asn Ala Thr His Ala Pro Leu Ala Thr Leu Ala Leu
 100 105 110
 Asn Ala Gly Lys His Val Val Val Asp Lys Pro Phe Thr Leu Asp Met
 115 120 125
 Gln Glu Ala Arg Asp Leu Ile Ala Leu Ala Glu Glu Lys Gln Leu Leu
 130 135 140
 Leu Ser Val Phe His Asn Arg Arg Trp Asp Ser Asp Phe Leu Gly Ile
 145 150 155 160
 Lys Gln Val Ile Ala Gln Gly Ser Ile Gly Lys Val Lys His Phe Glu
 165 170 175
 Ser His Ile Asp Arg Phe Arg Pro Glu Val Arg Val Arg Trp Arg Glu
 180 185 190
 Gln Asn Val Pro Gly Ser Gly Leu Trp Phe Asp Leu Gly Pro His Met
 195 200 205
 Ile Asp Gln Thr Leu Gln Leu Phe Gly Leu Pro Gln Ser Val Gln Gly
 210 215 220
 Asn Ile Ala Thr Leu Arg Asp Gly Ala Glu Ile Asn Asp Trp Ala His
 225 230 235 240
 Val Val Leu Asn Tyr Pro Glu His Lys Val Val Leu His Cys Ser Met
 245 250 255
 Leu Val Ala Gly Gly Val Ser Arg Phe Thr Ile His Gly Asn Lys Ala
 260 265 270
 Ser Val Val Lys Ala Arg Ile Asp Gln Gln Glu Ala Gln Leu Leu Ala
 275 280 285
 Gly Val Ile Pro Gly Ser Glu Ser Trp Gly Glu Asp Ser Asp Ala Met
 290 295 300
 Val Leu Leu Asn Ala Gln Arg Glu Ala Ser Ala Ile Pro Ala Pro Lys
 305 310 315 320
 Gly Asp Gln Arg Gln Tyr Tyr Ile Asn Val Arg Asp Ala Leu Asn Gly
 325 330 335
 Lys Ile Asp Asn Pro Val Pro Pro Val Glu Ala Leu Ala Val Met Ala
 340 345 350

Val Leu Glu Ser Ala Val Lys Ser Ser Glu Thr Gly Thr Thr His Glu
 355 360
 Leu Asp Leu Thr Ala His Asp Arg Ala Gln Leu Gln
 370 375 380

<210> 5771

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 5771

Thr Val Lys Pro Lys Ser Pro Arg Leu Phe Ala Ile Ser Thr Pro Ala
 1 5 10 15
 Ala Leu Ala Lys Ser Lys Arg Lys Lys Glu Arg Ile Met Ser Thr Pro
 20 25 30
 Ala Asn Phe Asn Gly Ala Arg Pro Val Ile Asp Val Asn Asp Ala Val
 35 40 45
 Met Leu Leu Ile Asp His Gln Ser Gly Leu Phe Gln Thr Val Gly Asp
 50 55 60
 Met Pro Met Pro Glu Leu Arg Ala Arg Ala Ala Leu Ala Lys Ile
 65 70 75 80
 Ala Ser Leu Ala Lys Ile Pro Val Ile Thr Thr Ala Ser Val Pro Gln
 85 90 95
 Gly Pro Asn Gly Pro Leu Ile Pro Glu Ile His Ala Asn Ala Pro His
 100 105 110
 Ala Gln Tyr Val Ala Arg Lys Gly Glu Ile Asn Ala Trp Asp Asn Pro
 115 120 125
 Glu Phe Val Ala Ala Val Lys Ala Thr Gly Arg Lys Thr Leu Ile Ile
 130 135 140
 Ala Gly Thr Ile Thr Ser Val Cys Met Ala Phe Pro Ser Ile Ser Ala
 145 150 155 160
 Val Ala Asp Gly Tyr Lys Val Phe Ala Val Ile Asp Ala Ser Gly Thr
 165 170 175
 Tyr Ser Lys Met Ala Gln Glu Ile Thr Leu Ala Arg Val Val Gln Ala
 180 185 190
 Gly Val Val Pro Met Asp Thr Ala Ala Val Ala Ser Glu Ile Gln Arg
 195 200 205
 Thr Trp Asn Arg Glu Asp Ala Gly Glu Trp Ala Glu Val Tyr Thr His
 210 215 220
 Ile Phe Pro Val Tyr Gln Leu Leu Ile Glu Ser Tyr Ser Lys Ala Gln
 225 230 235 240
 Asp Val Val Lys Asn Ser Glu Val Leu Asp Ser Gln Arg
 245 250

<210> 5772

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 5772

Arg Ala Val Asp Asp Gly Gly Pro Ser His Phe Ala Arg Gly Val Pro
 1 5 10 15
 Leu Gln Arg Phe Ser Gln Lys Ala Gly Glu Leu Lys Met Met Gln Leu
 20 25 30
 Trp Phe Asn Leu Pro Ala Lys Asp Lys Trp Gly Thr Pro Gly Tyr Gln
 35 40 45
 Ser Ile Thr Gln Ala Asp Ile Pro Val Val Thr Leu Pro Asp Asn Ser
 50 55 60
 Gly Thr Leu Arg Val Ile Ala Gly Arg Phe Gly Glu Val Thr Gly Pro
 65 70 75 80
 Ala His Thr Phe Ser Pro Leu Asn Val Trp Asp Leu Ala Leu His Gln

85										90					95				
Gly	Ser	His	Leu	Thr	Leu	Asn	Gln	Pro	Glu	Gly	Trp	Ser	Thr	Ala	Leu				
100										105					110				
Val	Val	Val	Glu	Gly	Ser	Val	Thr	Val	Asn	Gly	Thr	Thr	Pro	Ala	Gly				
115										120					125				
Glu	Ala	Gln	Leu	Val	Val	Leu	Ser	Gln	Ser	Gly	Asp	Lys	Leu	His	Leu				
130										135					140				
Glu	Ala	Ser	Ser	Asp	Ala	Lys	Val	Leu	Leu	Met	Ala	Gly	Glu	Pro	Leu				
145										155					160				
Asn	Glu	Pro	Ile	Val	Gly	Tyr	Gly	Pro	Phe	Val	Met	Asn	Ser	Lys	Thr				
165										170					175				
Glu	Ile	Ala	Glu	Ala	Ile	Arg	Asp	Phe	Asn	Ser	Gly	Arg	Phe	Gly	Gln				
180										185					190				
Ile																			

<210> 5773

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 5773

Ser	Ala	Arg	Val	Trp	Arg	Phe	Val	Val	Lys	Arg	Leu	Gly	Pro	Glu	Gln
1			5						10					15	
Arg	Ala	Glu	Leu	Val	Leu	Asn	Ala	Leu	Val	Ala	Ile	Arg	Phe	Leu	Lys
			20					25					30		
Pro	Gln	Met	Trp	Lys	Ser	Trp	His	Phe	Leu	Ala	His	Gly	Met	Ser	Trp
		35				40						45			
Thr	Pro	Ala	Ile	Gly	Asp	Ala	Ala	Ser	Val	Asn	Leu	Ser	Asp	Thr	Glu
		50				55					60				
Glu	Glu	Val	Asn	Leu	Leu	Val	Val	Glu	Pro	Gly	Glu	Asn	Ala	Ala	Leu
65					70					75				80	
Cys	Leu	Leu	Ala	Gln	Pro	Gly	Val	Asn	Ile	Ala	Gly	Arg	Val	Met	Gln
				85				90						95	
Leu	Gly	Asp	Ala	Ile	Lys	Val	Met	Asn	Asp	Arg	Leu	Lys	Pro	Gln	Leu
			100					105					110		
Arg	Val	Asp	Ser	Phe	Ser	Leu	Glu	Gln	Ala	Val					
		115				120									

<210> 5774

$\langle 211 \rangle$ 324

<212> PRT

<213> Enterobacter cloacae

<400> 5774

Thr	Ala	Arg	Gln	Phe	Pro	Gln	Met	Val	Arg	Phe	Thr	Pro	Ser	Pro	Leu
1			5						10					15	
His	Asp	Gly	Leu	His	Leu	Thr	Ala	Pro	Asp	Gly	Ser	Ser	Val	Val	Ile
		20						25					30		
Arg	Phe	Ala	Asp	Phe	Ala	Pro	Leu	Asp	Ala	Pro	Thr	Glu	Val	Trp	Gly
		35					40					45			
Asn	His	Phe	Thr	Ala	Arg	Ile	Ala	Pro	Asp	Asn	Ile	Asn	Gln	Trp	Leu
	50					55					60				
Ser	Gly	Phe	Phe	Ser	Arg	Asp	Val	Gln	Leu	Arg	Trp	Val	Gly	Pro	Ala
65					70					75				80	
Leu	Thr	Arg	Arg	Val	Lys	Arg	His	Asp	Ala	Val	Pro	Leu	Ser	Phe	Ala
				85				90					95		
Asp	Gly	Phe	Pro	Phe	Leu	Leu	Thr	Ser	Glu	Ala	Ser	Leu	Arg	Asp	Leu
			100					105					110		
Gln	Lys	Arg	Cys	Lys	Ala	Ser	Val	Gln	Met	Glu	Gln	Phe	Arg	Pro	Asn
		115					120					125			

Leu Val Val Thr Gly Ala Glu Ala Trp Asp Glu Asp Thr Trp Lys Val
 130 135 140
 Ile Arg Ile Gly Ser Val Ile Phe Asp Val Val Lys Pro Cys Ser Arg
 145 150 155 160
 Cys Ile Leu Thr Thr Ile Ser Pro Glu Lys Gly Gln Lys His Pro Ser
 165 170 175
 Gly Glu Pro Leu Lys Thr Leu Gln Ser Phe Arg Thr Ala Gln Asp Lys
 180 185 190
 Gly Asp Val Asp Phe Gly Gln Asn Leu Ile Pro Arg Ser Ser Gly Val
 195 200 205
 Ile Arg Val Gly Asp Glu Ile Glu Ile Leu Thr Arg Gly Pro Ala Arg
 210 215 220
 Val Tyr Gly Ala Gly Gln Glu Glu Glu Met Val Asp Val Val Thr Asn
 225 230 235 240
 Val Ala Ser Ala Val Asp Ile His Trp Glu Gly Lys Val Ile Arg Gly
 245 250 255
 Asn Asn Gln Gln Val Leu Leu Glu Gln Leu Glu Gln Ala Gly Ile Arg
 260 265 270
 Val Pro Tyr Ser Cys Arg Ala Gly Ile Cys Gly Cys Cys Arg Ile Lys
 275 280 285
 Leu Val Asp Gly Glu Val Ser Ala Leu Lys Lys Ser Ala Ile Gly Gly
 290 295 300
 Asp Gly Thr Ile Leu Cys Cys Ser Cys Val Pro Lys Thr Ser Val Gln
 305 310 315 320
 Leu Glu Ala

<210> 5775

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 5775

Asn Arg Gly His Arg Tyr Ser Pro Val Leu Ala Ile Val Leu Leu Val
 1 5 10 15
 Arg Ser Leu Leu Tyr Glu Pro Phe Gln Ile Arg Ser Gly Ser Met Ile
 20 25 30
 Pro Thr Leu Leu Ile Gly Asp Phe Ile Leu Val Glu Lys Phe Ala Tyr
 35 40 45
 Gly Ile Lys Asp Pro Ile Tyr Gln Lys Thr Leu Ile Glu Thr Gly His
 50 55 60
 Pro Lys Arg Gly Asp Ile Val Val Phe Lys Tyr Pro Glu Asp Pro Arg
 65 70 75 80
 Leu Asp Tyr Ile Lys Arg Ala Val Gly Leu Pro Gly Asp Lys Val Thr
 85 90 95
 Tyr Asp Pro Val Ala Lys Glu Val Thr Ile Gln Pro Gly Cys Ser Ser
 100 105 110
 Gly Thr Ala Cys Glu Asn Ala Leu Pro Val Thr Tyr Ser Asn Val Glu
 115 120 125
 Pro Ser Asp Phe Val Gln Thr Phe Ala Arg Arg Asn Gly Gly Glu Ala
 130 135 140
 Thr Ser Gly Phe Phe Gln Val Pro Lys Gly Glu Thr Lys Glu Asn Gly
 145 150 155 160
 Ile Arg Leu Val Glu Arg Lys Glu Thr Leu Gly Asp Val Thr His Arg
 165 170 175
 Ile Leu Thr Val Pro Ile Ala Gln Asp Gln Leu Ala Met Tyr Tyr Gln
 180 185 190
 Gln Pro Gly Gln Gln Leu Ala Thr Trp Ile Val Pro Pro Gly His Tyr
 195 200 205
 Phe Met Met Gly Asp Asn Arg Asp Asn Ser Ala Asp Ser Arg Tyr Trp
 210 215 220

Gly Phe Val Pro Glu Ala Asn Leu Val Gly Lys Ala Thr Ala Ile Trp
 225 230 235 240
 Met Ser Phe Glu Lys Gln Glu Gly Glu Trp Pro Thr Gly Val Arg Leu
 245 250 255
 Asn Arg Ile Gly Gly Ile His
 260

<210> 5776

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 5776

Thr Gly Cys Arg Arg Thr Gly Val Lys Asn Ala Gly Ala Gly Met Ser
 1 5 10 15
 Ile Asp Lys Thr Tyr Cys Gly Phe Ile Ala Ile Val Gly Arg Pro Asn
 20 25 30
 Val Gly Lys Ser Thr Leu Leu Asn Asn Leu Leu Gly Gln Lys Ile Ser
 35 40 45
 Ile Thr Ser Arg Lys Ala Gln Thr Thr Arg His Arg Ile Val Gly Ile
 50 55 60
 His Thr Glu Gly Ala Tyr Gln Ala Ile Tyr Val Asp Thr Pro Gly Leu
 65 70 75 80
 His Met Glu Glu Lys Arg Ala Ile Asn Arg Leu Met Asn Lys Ala Ala
 85 90 95
 Ser Ser Ser Ile Gly Asp Leu Glu Leu Val Ile Phe Val Val Glu Gly
 100 105 110
 Thr Arg Trp Thr Pro Asp Asp Glu Met Val Leu Asn Lys Leu Arg Asp
 115 120 125
 Gly Lys Thr Pro Val Ile Leu Ala Val Asn Lys Val Asp Asn Val Gln
 130 135 140
 Glu Lys Ala Asp Leu Leu Pro His Leu Gln Trp Leu Gly Ser His Met
 145 150 155 160
 Asn Phe Leu Asp Ile Val Ser Leu Ser Ala Asp Thr Gly Leu Asn Val
 165 170 175
 Asp

<210> 5777

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 5777

Asn Ile Pro Pro Lys Phe Lys Val Gly Pro Ala Arg Val Pro Arg His
 1 5 10 15
 Thr Lys Pro Arg Trp Phe Ser Gln Val Gly Phe Val Cys Cys Ile Phe
 20 25 30
 Asp Ala Phe Ile Tyr Trp Tyr Arg Met Asn Pro Ile Val Ile Asn Arg
 35 40 45
 Leu Gln Arg Lys Leu Gly Tyr Thr Phe His His Gln Glu Leu Leu Gln
 50 55 60
 Gln Ala Leu Thr His Arg Ser Ala Ser Ser Lys His Asn Glu Arg Leu
 65 70 75 80
 Glu Phe Leu Gly Asp Ser Ile Leu Ser Phe Val Ile Ala Asn Ala Leu
 85 90 95
 Tyr His Arg Phe Pro Arg Val Asp Glu Gly Asp Met Ser Arg Met Arg
 100 105 110
 Ala Thr Leu Val Arg Gly Asn Thr Leu Ala Glu Ile Ala Arg Glu Phe
 115 120 125
 Glu Leu Gly Glu Cys Leu Arg Leu Gly Pro Gly Glu Leu Lys Ser Gly

130 135 140
 Gly Phe Arg Arg Glu Ser Ile Leu Ala Asp Thr Val Glu Ala Leu Ile
 145 150 155 160
 Gly Gly Val Phe Leu Asp Ser Asp Ile Gln Thr Val Glu Lys Leu Ile
 165 170 175
 Leu Asn Trp Tyr Gln Thr Arg Leu Asp Glu Ile Ser Pro Gly Asp Lys
 180 185 190
 Gln Lys Asp Pro Lys Thr Arg Leu Gln Glu Tyr Leu Gln Gly Arg His
 195 200 205
 Leu Pro Leu Pro Ser Tyr Leu Val Val Gln Val Arg Gly Glu Ala His
 210 215 220
 Asp Gln Glu Phe Thr Ile His Cys Gln Val Ser Gly Leu Ser Glu Pro
 225 230 235 240
 Val Val Gly Thr Gly Ser Ser Arg Arg Lys Ala Glu Gln Ala Ala Ala
 245 250 255
 Glu Gln Ala Leu Lys Met Leu Glu Leu Glu
 260 265

<210> 5778

<211> 436

<212> PRT

<213> Enterobacter cloacae

<400> 5778

Thr Gly Lys Tyr His Met Val Asp Gln Val Lys Val Ala Ala Ala Glu
 1 5 10 15
 Glu Ala Thr Ser Glu Gln Ser Leu Arg Arg Asn Leu Thr Asn Arg His
 20 25 30
 Ile Gln Leu Ile Ala Ile Gly Gly Ala Ile Gly Thr Gly Leu Phe Met
 35 40 45
 Gly Ser Gly Lys Thr Ile Ser Leu Ala Gly Pro Ser Ile Ile Phe Val
 50 55 60
 Tyr Met Ile Ile Gly Phe Met Leu Phe Phe Val Met Arg Ala Met Gly
 65 70 75 80
 Glu Leu Leu Leu Ser Asn Leu Glu Tyr Lys Ser Phe Ser Asp Phe Ala
 85 90 95
 Ser Asp Leu Leu Gly Pro Trp Ala Gly Tyr Phe Thr Gly Trp Thr Tyr
 100 105 110
 Trp Phe Cys Trp Val Val Thr Gly Met Ala Asp Val Val Ala Ile Thr
 115 120 125
 Ala Tyr Ala Gln Phe Trp Phe Pro Gly Leu Ser Asp Trp Val Ala Ser
 130 135 140
 Leu Ala Val Ile Val Leu Leu Leu Ser Leu Asn Leu Ala Thr Val Lys
 145 150 155 160
 Met Phe Gly Glu Met Glu Phe Trp Phe Ala Met Ile Lys Ile Val Ala
 165 170 175
 Ile Ile Ala Leu Ile Val Val Gly Leu Val Met Val Leu Thr His Phe
 180 185 190
 Gln Ser Pro Thr Gly Val Gln Ala Ser Phe Ala His Leu Trp Asn Asp
 195 200 205
 Gly Gly Trp Phe Pro Lys Gly Ile Ser Gly Phe Phe Ala Gly Phe Gln
 210 215 220
 Ile Ala Val Phe Ala Phe Val Gly Ile Glu Leu Val Gly Thr Thr Ala
 225 230 235 240
 Ala Glu Thr Lys Asp Pro Glu Lys Ser Leu Pro Arg Ala Ile Asn Ser
 245 250 255
 Ile Pro Leu Arg Ile Ile Met Phe Tyr Val Phe Ala Leu Ile Val Ile
 260 265 270
 Met Ser Val Thr Pro Trp Ser Ser Val Val Pro Thr Lys Ser Pro Phe
 275 280 285
 Val Glu Leu Phe Val Leu Val Gly Leu Pro Ala Ala Ala Ser Leu Ile

290 295 300
 Asn Phe Val Val Leu Thr Ser Ala Ala Ser Ser Ala Asn Ser Gly Val
 305 310 315 320
 Phe Ser Thr Ser Arg Met Leu Phe Gly Leu Ala Gln Glu Gly Val Ala
 325 330 335
 Pro Ser Ala Phe Ala Lys Leu Ser Lys Arg Ala Val Pro Ala Lys Gly
 340 345 350
 Leu Thr Phe Ser Cys Ile Cys Leu Leu Gly Gly Val Val Met Leu Tyr
 355 360 365
 Val Asn Pro Ser Val Ile Gly Ala Phe Thr Met Ile Thr Thr Val Ser
 370 375 380
 Ala Ile Leu Phe Met Phe Val Trp Thr Ile Ile Leu Cys Ser Tyr Leu
 385 390 395 400
 Val Tyr Arg Lys Gln Arg Pro His Leu His Glu Lys Ser Ile Tyr Lys
 405 410 415
 Met Pro Leu Gly Lys Leu Met Cys Trp Val Cys Met Ala Phe Phe Val
 420 425 430
 Phe Val Leu Val
 435

<210> 5779
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 5779
 Glu Arg Glu Asp Ala Val Leu Pro Pro Ala Gly Glu Glu Leu Glu Ala
 1 5 10 15
 Gln Ala Ser Tyr Gly Ile Gly Leu Gln Val Gly Gln Gln Leu Ser Glu
 20 25 30
 Ser Gly Leu Glu Gly Leu Leu Pro Glu Ala Leu Val Ala Gly Ile Ala
 35 40 45
 Asp Ala Leu Glu Gly Lys Gln Pro Ala Val Pro Val Asp Val Val His
 50 55 60
 Arg Ala Leu Arg Glu Ile His Glu Arg Ala Asp Ala Val Arg Arg Ala
 65 70 75 80
 Arg Phe Glu Glu Met Ala Ala Glu Gly Val Lys Tyr Leu Glu Glu Asn
 85 90 95
 Arg Glu Arg Glu Gly Val Asn Ser Thr Glu Ser Gly Leu Gln Phe Arg
 100 105 110
 Val Ile Asn Gln Gly Asp Gly Ala Ile Pro Ala Arg Thr Asp His Val
 115 120 125
 Arg Val His Tyr Thr Gly Lys Leu Ile Asp Gly Thr Val Phe Asp Ser
 130 135 140
 Ser Val Ala Arg Gly Glu Pro Ala Glu Phe Pro Val Asn Gly Val Ile
 145 150 155 160
 Ala Gly Trp Ile Glu Ala Leu Thr Leu Met Pro Val Gly Ser Lys Trp
 165 170 175
 Glu Leu Thr Ile Pro His Asn Leu Ala Tyr Gly Glu Arg Gly Ala Gly
 180 185 190
 Ala Ser Ile Pro Pro Phe Ser Thr Leu Val Phe Glu Val Glu Leu Leu
 195 200 205
 Glu Ile Leu
 210

<210> 5780
 <211> 400
 <212> PRT
 <213> Enterobacter cloacae

<400> 5780

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Asp Glu Thr Arg Ile Tyr Tyr Arg Arg Ser Leu Cys Asn Met Ala Asp
1      5      10      15
Asp Lys Leu Ser Gly Pro Asp Glu Lys Leu Phe Tyr Gln Ser Arg Arg
20      25
Leu Tyr Arg Lys Cys Cys Asn Ile Tyr Tyr Ile Gln Val Ser Met Met
35      40      45
Val Lys Lys Phe Lys Lys Leu Leu Leu Glu Phe Ile Val Ala Val Met
50      55      60
Leu Ser Leu Ser Ile Pro Gly Met Ala Met Ala Ala Asp Ala Gly Val
65      70      75      80
Pro Gly Ala Met Cys Gln Ser Ala Gly Val Trp Gln Gly Leu Ile Lys
85      90      95
Asn Ile Cys Trp Ser Cys Ile Phe Pro Met Arg Ile Met Gly Ile Gly
100      105      110
Ala Ala Pro Glu Gly Ala Ala Pro Ser Arg Pro Gly Cys Tyr Cys Thr
115      120      125
Asp Gln Asn Gly Val Pro Glu Ile Gly Trp Gln Leu Ser Phe Phe Gln
130      135      140
Pro Val Lys Ile Val Glu Val Val Lys Ser Pro Trp Cys Ser Pro Phe
145      150      155      160
Leu Glu Gly Thr Met Leu Gln Lys Ser Gln Phe Asp Ile Gly Lys Ser
165      170      175
Asn Thr Asn Gln Pro Met Thr Ala Thr Glu Ala Gly Phe Tyr Asp Val
180      185      190
His Leu Trp Glu Phe Pro Ile Met Thr Met Leu Lys Leu Leu Ile Ile
195      200      205
Gly Glu Cys Thr Ala Glu Pro Tyr Ile Asp Ala Ser Leu Thr Tyr Ile
210      215      220
Ser Glu Val Asp Pro Met Trp Glu Ser Asp Leu Leu Thr Leu Val Leu
225      230      235      240
Asn Pro Glu Ala Val Val Phe Ala Asn Pro Ile Ala Ser Met Val Cys
245      250      255
Ala Ala Asp Cys Val Ala Val Thr Ala Gly Lys Asp Asn Leu Ala Ala
260      265      270
Tyr Phe Cys Ala Gly Cys Asp Gly Asn Leu Tyr Pro Leu Thr Gly His
275      280      285
Met Tyr Ala Asn Asp Asp Ala Val Arg Thr Ser Ser Leu Ile Thr His
290      295      300
Arg Leu Leu Thr Lys Leu His Arg Gln Gly Met Leu Met Arg Thr Met
305      310      315      320
Gly Ala Asp Ala Met Cys Glu Lys Thr Trp Glu Tyr Phe Thr Pro Arg
325      330      335
Ser Gln Tyr Arg Leu Ser Met Leu Phe Pro Thr Pro Glu Ala Lys Gly
340      345      350
Pro Asp Cys Cys His Arg Leu Gly Asp Ser Val His Asp Trp Ser Thr
355      360      365
Leu Lys Gly Gly Arg Lys Lys Ile Gly Asn Asp Asn Tyr Val Tyr Met
370      375      380
Leu Trp Arg Tyr Asn Asp Cys Cys Val Arg Tyr Ile Pro Gly Ala
385      390      395      400

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<210> 5781

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 5781

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Gln Ile Trp Ser Ile Tyr Met Ala Trp Asn Gln Pro Gly Asn Asn Gly
1      5      10      15
Gln Asp Arg Asp Pro Trp Gly Ser Ser Asn Asn Gln Gly Gly Asn Ser
20      25      30

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Gly Gly Asn Gly Asn Lys Gly Gly Arg Glu Gln Gly Pro Pro Asp Leu
 35 40 45
 Asp Asp Ile Phe Arg Lys Leu Ser Lys Lys Leu Gly Gly Leu Gly Gly
 50 55 60
 Gly Lys Gly Ser Gly Ser Gly Gly Asn Ser Thr Gln Ser Pro Arg Pro
 65 70 75
 Pro Met Gly Gly Arg Val Val Gly Ile Val Ala Ala Ala Val Val Ile
 85 90 95
 Ile Trp Ala Ala Ser Gly Phe Tyr Thr Thr Ile Lys Glu Ala Glu Arg Gly
 100 105 110
 Val Val Thr Arg Phe Gly Lys Phe Ser His Leu Val Glu Pro Gly Leu
 115 120 125
 Asn Trp Lys Pro Thr Phe Ile Asp Asp Val Thr Ala Val Asn Val Glu
 130 135 140
 Ser Val Arg Glu Leu Ala Ala Ser Gly Val Met Leu Thr Ser Asp Glu
 145 150 155
 Asn Val Val Arg Val Glu Met Asn Val Gln Tyr Arg Val Thr Asp Pro
 165 170 175
 Glu Arg Tyr Leu Phe Ser Val Thr Ser Ala Asp Asp Ser Leu Arg Gln
 180 185 190
 Ala Thr Asp Ser Ala Leu Arg Gly Val Ile Gly Lys Tyr Thr Met Asp
 195 200 205
 Arg Ile Leu Thr Glu Gly Arg Thr Val Ile Arg Ser Asp Thr Gln Arg
 210 215 220
 Glu Leu Glu Glu Thr Ile Arg Pro Tyr Asn Met Gly Ile Thr Leu Leu
 225 230 235
 Asp Val Asn Phe Gln Ala Ala Arg Pro Pro Glu Glu Val Lys Ala Ala
 245 250 255
 Phe Asp Asp Ala Ile Ala Ala Arg Glu Asn Glu Gln Gln Tyr Ile Arg
 260 265 270
 Glu Ala Glu Ala Tyr Thr Lys Asp Val Arg Leu His Leu Gly Arg Ala
 275 280 285
 Asp Pro Arg Arg Ala
 290

<210> 5782

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 5782

Thr Lys Met Asp Met Leu Glu Asp Phe Glu Pro Arg Ile Asp Arg Asp
 1 5 10 15
 Glu Glu Asn Lys Pro Ile Arg Val Trp Leu Tyr Ala Gln Ala Gly Ile
 20 25 30
 Gly Val Pro Leu Leu Phe Gln Ala Leu Thr Glu Arg Leu Ser Gly Glu
 35 40 45
 Val Ala Gln His Thr Leu Arg Leu Pro Pro Gln Glu Gly Arg Leu Arg
 50 55 60
 Ser Arg Phe Tyr Gln Leu Gln Ala Ile Glu Lys Glu Trp Met Glu Asp
 65 70 75 80
 Asp Gly Ser Val Gly Met Gln Val Arg Met Pro Ile Val Asp Trp Arg
 85 90 95
 Arg Leu Cys Lys Lys Gln Glu Pro Ala Leu Ala Asp Tyr Ile Val
 100 105 110

<210> 5783

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 5783

Gly His His His Pro Val Leu Gly Ile Val Ile Lys Cys Pro Leu Ser
 1 5 10 15
 Gly Glu Thr Gln Gln Glu Arg Ile Met Ser Leu Ala Gly Lys Lys
 20 25 30
 Ile Val Leu Gly Val Ser Gly Gly Ile Ala Ala Tyr Lys Thr Pro Asp
 35 40 45
 Leu Val Arg Arg Leu Arg Glu Arg Gly Ala Asp Val Arg Val Ala Ile
 50 55 60
 Thr Glu Gly Gly Lys Ala Phe Ile Thr Pro Leu Ser Leu Gln Ala Val
 65 70 75 80
 Ser Gly Tyr Pro Val Ser Asp Ser Leu Leu Asp Pro Ala Ala Gly Ala
 85 90 95
 Ala Met Gly His Ile Glu Leu Gly Lys Trp Ala Asp Leu Val Ile Leu
 100 105 110
 Ala Pro Ala Thr Ala Asp Leu Ile Ala Arg Leu Ala Thr Gly Met Ala
 115 120 125
 Asn Asp Leu Val Thr Thr Ile Cys Leu Ala Thr Pro Ala Pro Val Ala
 130 135 140
 Val Val Pro Ala Met Asn Gln Gln Met Tyr Arg Asn Ala Ala Thr Gln
 145 150 155 160
 His Asn Leu Asp Thr Leu Ala Ser Arg Gly Leu Leu Ile Trp Gly Thr
 165 170 175
 Asp Ser Gly Ser Gln Ala Cys Gly Glu Ile Gly Gly Arg Gly Phe Pro
 180 185 190
 Gln Pro Ile Asn Asp Cys
 195

<210> 5784

<211> 68

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (52)

<400> 5784

Phe Gly Glu Arg Thr Ala Ala Ala Lys Pro Ala Gly Lys Leu Gly Ala
 1 5 10 15
 Gly Val Phe Leu Asn Pro Leu Thr Ile Val Asp Met Ala Ala His
 20 25 30
 Phe Ser Pro Val Asn Asp Leu Gln His Leu Asn Ile Met Asn Thr Ala
 35 40 45
 Gly Pro Pro Xaa Lys Pro Leu Gly Phe Arg Ala Leu His Gln Gln Pro
 50 55 60
 Lys Val Arg Glu
 65

<210> 5785

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 5785

Phe Phe Pro Val Gly Phe His Gln Arg Ala Gly Ile Leu Ser Gln Ser
 1 5 10 15
 Leu Lys Arg Gly Asp Asp Val Leu Asn Ser Leu Cys Glu Ala Leu Arg
 20 25 30
 Lys Asn Glu Met Pro Ala Ser Asn Pro Glu Phe Ala Cys Gly Ser Ile
 35 40 45

Met Ala Asn Arg Arg Arg Pro Gly Met Glu Glu Thr Glu Leu Leu Leu
 50 55 60
 Pro Arg Glu Lys Met Leu Arg His Gly Val Thr Leu Leu Lys Asp Asp
 65 70 75 80
 Glu Leu Leu Ala Leu Phe Leu Arg Thr Gly Thr Pro Gly Lys Thr Val
 85 90 95
 Phe Thr Leu Ala Lys Glu Leu Ile Asp His Phe Gly Ser Leu Tyr Gly
 100 105 110
 Leu Leu Thr Ala Glu Leu Glu Ala Phe Thr His Val Glu Gly Ile Gly
 115 120 125
 Val Ala Lys Tyr Ala Gln Leu Arg Gly Ile Ala Glu Leu Ala Arg Arg
 130 135 140
 Phe Tyr Asn Val Arg Met Glu Glu Glu Asp Pro Ile Leu Thr Pro Asp
 145 150 155 160
 Met Thr Arg Glu Phe Leu Gln Ser Gln Leu Ser Asp Leu Glu Arg Glu
 165 170 175
 Ile Phe Met Val Ile Phe Leu Asp Asn Lys Asn Arg Val Leu Lys His
 180 185 190
 Thr Arg Leu Phe Ser Gly Thr Leu Ser His Val Glu Val His Pro Arg
 195 200 205
 Glu Ile Val Arg Glu Ala Ile Lys Val Asn Ala Ala Gly Val Ile Leu
 210 215 220
 Ala His Asn His Pro Ser Gly Cys Ala Glu Pro Ser Arg Ala Asp Lys
 225 230 235 240
 Ala Ile Thr Glu Arg Ile Ile Lys Cys Cys Gln Phe Met Asp Ile Arg
 245 250 255
 Val Leu Asp His Leu Ile Ile Gly Arg Gly Glu Tyr Ile Cys Leu His
 260 265 270
 His Arg Gly Ser Lys Glu Pro Arg Tyr Ala Cys Ile
 275 280

<210> 5786

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 5786

Met Asn Met Leu Ser Phe Glu Gly Lys Glu Ile Glu Thr Asp Asn Asp
 1 5 10 15
 Gly Tyr Leu Lys Glu Ser Ser Gln Trp Ser Glu Ala Leu Ala Glu Lys
 20 25 30
 Ile Ala Asp Asn Glu Gly Ile Thr Leu Ser Pro Glu His Trp Glu Val
 35 40 45
 Val Arg Phe Val Arg Glu Phe Tyr Leu Glu Phe Asn Thr Ser Pro Ala
 50 55 60
 Ile Arg Met Leu Val Lys Ala Met Ala Asn Lys Phe Gly Glu Glu Lys
 65 70 75 80
 Gly Asn Ser Arg Tyr Leu Tyr Arg Leu Phe Pro Lys Gly Pro Ala Lys
 85 90 95
 Gln Ala Thr Lys Ile Ala Gly Leu Pro Lys Pro Val Lys Cys Ile
 100 105 110

<210> 5787

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 5787

Leu Met Asp Arg Ile Ile Thr Ser Ser Arg Asp Arg Thr Ser Leu Leu
 1 5 10 15
 Ser Thr His Lys Val Leu Arg Asn Thr Tyr Phe Met Leu Ser Leu Thr

20 25 30
 Leu Ala Phe Ser Ala Ile Thr Ala Thr Ala Ser Thr Val Leu Met Leu
 35 40 45
 Pro Ser Pro Gly Leu Ile Leu Thr Leu Val Gly Met Tyr Gly Leu Met
 50 55 60
 Phe Leu Thr Tyr Lys Thr Ala Asp Lys Pro Val Gly Ile Leu Ser Ala
 65 70 75 80
 Phe Ala Phe Thr Gly Phe Leu Gly Tyr Ile Leu Gly Pro Ile Leu Asn
 85 95
 Ala Tyr Leu Ser Ala Gly Met Gly Asp Val Ile Gly Met Ala Leu Gly
 100 105 110
 Gly Thr Ala Leu Val Phe Phe Cys Cys Ser Ala Tyr Val Leu Thr Thr
 115 120 125
 Arg Lys Asp Met Ser Phe Leu Gly Gly Met Leu Met Ala Gly Ile Val
 130 135 140
 Ile Val Leu Val Gly Met Leu Ala Asn Ile Phe Leu Gln Leu Pro Ala
 145 150 155 160
 Leu His Leu Ala Ile Ser Ala Val Phe Ile Leu Ile Ser Ser Gly Ala
 165 170 175
 Ile Leu Tyr Glu Thr Ser Asn Ile Ile His Gly Gly Glu Thr Asn Tyr
 180 185 190
 Ile Arg Ala Thr Val Ser Leu Tyr Val Ser Leu Tyr Asn Ile Phe Val
 195 200 205
 Ser Leu Leu Ser Ile Leu Gly Phe Gly Ser Arg Asp
 210 215 220

<210> 5788
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 5788
 Cys Gln Met Phe Ala Pro Leu Pro Gly Ser His Gly Val Gly Gln Gly
 1 5 10 15
 Ile Gly Phe Arg Tyr Ser Thr Gln Arg Glu Ala Leu Gln Leu Gly Leu
 20 25 30
 Thr Gly Tyr Ala Arg Asn Met Asp Asp Gly Ser Val Glu Val Val Ala
 35 40 45
 Cys Gly Glu Ala Asp Arg Val Glu Lys Leu Val Ala Trp Leu Lys Ala
 50 55 60
 Gly Gly Pro Arg Ser Ala Arg Val Asp Lys Val Leu Thr Glu Pro His
 65 70 75 80
 Gln Pro Gly Arg Glu Tyr Ala Asp Phe Ser Ile Arg Tyr
 85 90

<210> 5789
 <211> 384
 <212> PRT
 <213> Enterobacter cloacae

<400> 5789
 Lys Ile Leu Arg Tyr Ile Pro Lys Ala Ala Lys Asn Tyr Phe Arg Ile
 1 5 10 15
 Val Ile Lys Thr Asp Asn Lys Ala Lys Glu Met Lys Pro Gln Thr Arg
 20 25 30
 Thr His Phe Thr Leu Ser Leu Leu Thr Ala Gly Ile Leu Cys Ala Ser
 35 40 45
 Thr Ala Thr Trp Ala Ala Asn Val Pro Ala Gly Thr Gln Leu Ala Asp
 50 55 60
 Lys Gln Glu Leu Val Arg Asn Asn Gly Ser Glu Pro Ala Ser Leu Asp
 65 70 75 80

Pro His Lys Val Glu Ser Asp Val Glu Phe Asn Ile Ile Ser Asp Leu
 85 90 95
 Phe Asp Gly Leu Val Ser Val Ser Pro Ala Gly Glu Ile Gln Pro Arg
 100 105 110
 Leu Ala Glu Lys Trp Glu Asn Lys Asp Asn Thr Val Trp Thr Phe His
 115 120 125
 Leu Arg Pro Gly Ile Thr Trp Ser Asp Gly Thr Pro Ile Thr Ala Glu
 130 135 140
 Asp Ile Val Trp Ser Trp Gln Arg Leu Val Asp Pro Lys Thr Ala Ser
 145 150 155 160
 Pro Tyr Ala Ser Tyr Pro Gly Ser Met Arg Ile Val Asn Gly Thr Asp
 165 170 175
 Ile Ala Glu Gly Lys Lys Ala Pro Glu Ser Leu Gly Val Lys Ala Ile
 180 185 190
 Asn Asp Thr Thr Leu Glu Val Thr Leu Thr Gln Pro Asn Ala Ala Phe
 195 200 205
 Leu Ala Met Leu Ala His Pro Ser Leu Val Pro Ile Asp Lys Val Leu
 210 215 220
 Val Gly Arg Phe Gly Asp Lys Trp Thr Lys Pro Glu His Phe Val Ser
 225 230 235 240
 Ser Gly Ala Tyr Lys Leu Ser Gln Trp Val Val Asn Glu Arg Ile Val
 245 250 255
 Ala Val Leu Asn Pro Lys Tyr Trp Asp Asn Glu His Thr Val Ile Asn
 260 265 270
 Lys Val Thr Tyr Leu Pro Ile Ser Ser Glu Ala Ala Asp Val Asn Arg
 275 280 285
 Tyr Lys Ala Gly Glu Ile Asp Ile Val Tyr Thr Val Pro Ile Asn Gln
 290 295 300
 Phe Ala Gln Leu Lys Lys Thr Leu Gly Ser Glu Leu Asp Val Ser Pro
 305 310 315 320
 Gln Leu Ala Thr Tyr Tyr Glu Phe Asn Thr Thr Arg Pro Pro Phe
 325 330 335
 Asn Asp Ala Arg Val Arg Lys Ala Leu Asn Leu Ala Leu Asp Lys Asp
 340 345 350
 Ile Ile Ala Asp Lys Val Ile Arg Gln Gly Gln Arg Pro Ala Trp Leu
 355 360 365
 Ile Asn Gln Pro Asp Ile Gly Gly Val Lys Leu Gln Asn Pro Gly
 370 375 380

<210> 5790

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 5790

Lys Val Leu Pro Gly Val Ser Ala His Met Lys Lys Met Ala Asp Glu
 1 5 10 15
 Ala Gly Gly Leu Asp Arg Val Ser Gln Met Ala Val Thr Gly Ile Gly
 20 25 30
 Arg Val Lys Ala Ala Met Glu Asn Asp Leu Asn Lys Ala Phe Thr Ser
 35 40 45
 Ser Glu Lys Gly Phe Gly Gln Phe Asn Ala Ser Val Ala Asn Met Leu
 50 55 60
 Asn Asp Ala Ser Pro Ile Ala Glu Ala Leu Gly His Ile Leu Gly Lys
 65 70 75 80
 Val Ala Ser Met Thr Ser Gly Ala Val Asp His Val Asp Glu Trp Ser
 85 90 95
 Arg Lys Leu Ser Ala Leu Ile Leu Arg Thr Ser Ala Trp Tyr Asp Asp
 100 105 110
 Leu Ser Asp Gly Gln Lys Lys Leu Val Asp Ser Ala Glu Gln Phe Ala
 115 120 125

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Ile Gly Ala Ala Gly Val Leu Val Leu Val Lys Ser Ile Ala Gly Val
130 135 140
Ala Asn Lys Leu Lys Trp Leu Ser Ala Leu Leu Gly Gly Gly Ala Glu
145 150 155 160
Ala Gly Ala Ala Ala Gly Ala Gly Gly Leu Leu Lys Gly Ala Ser Arg
165 170 175
Leu Ala Gly Pro Val Gly Val Ala Leu Val Ala His Asp Ala Val Asp
180 185 190
Ala Ser Gly Val Glu Gln Asn Tyr Pro Asn Ala Val Gly Thr Gly Asn
195 200 205
Pro Ile Ala Gln Val Leu Asn Trp Leu Thr Asn Pro Ser Lys Ile Leu
210 215 220
Gly Ala Thr Glu Gln Asp Ser Leu Thr Asn Ser Pro Phe Thr Arg Met
225 230 235 240
Met Gly Ser Leu Gly Asp Trp Leu Gln Gly Asn Asn Ala Leu Ser Gly
245 250 255
Gln Ala Asn Thr Phe Ala Val Pro Ser Met Tyr Asn Pro Ala Gln Thr
260 265 270
Thr Ile Arg Asn Asp Gln Arg Ile Asn Ile Ser Val Asn Met Asp Ser
275 280 285
Gln Lys Ile Gly Thr Phe Gln Thr Gln Val Leu Thr Gly Gly Phe Glu
290 295 300
Asp Leu Asn Ile Asn Ala Glu His Leu Gly Asp
305 310 315

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<210> 5791

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 5791

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Thr Gly Gln Asp Arg Ile Tyr Arg Leu Glu Leu Phe Cys Arg Glu Pro
1 5 10 15
Thr Ile Phe Lys His Ala Cys Cys Ile Ile Asn Leu Ser Gly Leu Ala
20 25 30
Cys Ala Asp Glu His Gly Cys His Arg Ile Val Ala Gln Asp Pro Gly
35 40 45
Gln Cys His Leu Arg Gln Leu Leu Pro Pro Phe Phe Arg Gln Arg Ile
50 55 60
Gln Leu Thr Tyr Leu Phe Gln Leu Phe Val Gly Asp Leu Phe Arg Ile
65 70 75 80
Lys Glu Leu Thr Ala Ala Cys Cys Ala Arg Ile Arg Arg Asp Ala Val
85 90 95
Gln Ile Ala Ile Gly Gln Leu Ser Ala Arg Gln Gly Arg Glu Gly Asp
100 105 110
Thr Ser His Pro Phe Leu Leu Gln His Val Gln Gln Pro Leu Phe Arg
115 120 125
Arg Thr Phe Lys His Gly Val Leu Arg Leu Val Asp Gln Thr Trp Arg
130 135 140
Ala Gln Ile Leu His Tyr Phe Asn Arg Leu Pro Cys His Phe Cys Arg
145 150 155 160
Val Val Gly Gln Thr Asp Val Gln Arg Phe Ala Leu Thr His His Met
165 170 175
Val Lys Arg Phe His Gly Phe Thr
180 185

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<210> 5792

<211> 349

<212> PRT

<213> Enterobacter cloacae

<400> 5792

Cys Lys Arg Ile His Gly Cys Phe Phe Pro Ala Pro Glu Val Ser Gln
 1 5 10 15
 Met Gly Tyr Gln Pro Asp Lys Asn Arg Tyr Gln Thr Met Gln Tyr Arg
 20 25 30
 Arg Cys Gly Gln Ser Gly Leu Lys Leu Pro Ala Ile Ser Leu Gly Leu
 35 40 45
 Trp His Asn Phe Gly Asp Ala Thr Leu Leu Glu Asn Ser Arg Gln Leu
 50 55 60
 Leu Gln Arg Ala Phe Asn Leu Gly Ile Thr His Phe Asp Leu Ala Asn
 65 70 75 80
 Asn Tyr Gly Pro Pro Pro Gly Ser Ala Glu Arg Asn Phe Gly Arg Ile
 85 90 95
 Leu Gln Glu Asp Phe Leu Pro Trp Arg Asp Glu Leu Ile Ile Ser Thr
 100 105 110
 Lys Ala Gly Tyr Thr Met Trp Asp Gly Pro Tyr Gly Asp Trp Gly Ser
 115 120 125
 Arg Lys Tyr Leu Ile Ala Ser Leu Asp Gln Ser Leu Lys Arg Met Gly
 130 135 140
 Leu Glu Tyr Val Asp Ile Phe Tyr His His Arg Pro Asp Pro His Thr
 145 150 155 160
 Pro Leu Arg Glu Thr Met Lys Ala Leu Asp His Val Val Arg Gln Gly
 165 170 175
 Lys Ala Leu Tyr Ile Gly Leu Ser Asn Tyr Pro Ala Glu Met Ala Arg
 180 185 190
 Gln Ala Ile Glu Ile Met Glu Asp Leu Gly Thr Pro Cys Leu Ile His
 195 200 205
 Gln Pro Lys Tyr Ser Met Phe Glu Arg Ala Pro Glu Glu Gly Leu Leu
 210 215 220
 Asp Val Leu Gln Gln Lys Gly Val Gly Cys Ile Pro Phe Ser Pro Leu
 225 230 235 240
 Ala Gly Gly Gln Leu Thr Asp Arg Tyr Leu Asn Gly Ile Pro Ala Asp
 245 250 255
 Ser Arg Ala Ala Ser Gly Ser Lys Phe Leu Asn Pro Glu Gln Ile Thr
 260 265 270
 Asp Lys Lys Leu Glu Lys Val Arg Lys Leu Asn Ala Leu Ala Glu Lys
 275 280 285
 Arg Arg Gln Lys Leu Ser Gln Met Ala Leu Ala Trp Ile Leu Arg His
 290 295 300
 Asp Ala Val Thr Ser Val Leu Ile Gly Ala Ser Lys Thr Gly Gln Ile
 305 310 315 320
 Asp Asp Ala Ala Gly Val Leu Glu Asn Cys Arg Phe Thr Ala Glu Glu
 325 330 335
 Leu Lys Thr Ile Asp Thr Ile Leu Ser Ser Ser Asp
 340 345

<210> 5793

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 5793

Gly Asn Lys Met Gln Val Ser Val Glu Thr Thr Gln Gly Leu Gly Arg
 1 5 10 15
 Arg Val Thr Ile Thr Ile Ala Ala Asp Ser Ile Glu Thr Ala Val Lys
 20 25 30
 Ser Glu Leu Val Asn Val Ala Lys Lys Val Arg Ile Asp Gly Phe Arg
 35 40 45
 Lys Gly Lys Val Pro Met Asn Val Val Ala Gln Arg Tyr Gly Ala Ser
 50 55 60
 Val Arg Gln Asp Val Leu Gly Glu Leu Met Ser Arg Asn Phe Ile Asp

65 70 75 80
 Ala Ile Ile Lys Glu Lys Ile Asn Pro Ala Gly Ala Pro Asn Tyr Val
 85 90 95
 Pro Gly Glu Tyr Lys Gln Gly Glu Asp Phe Thr Tyr Ser Val Glu Phe
 100 105 110
 Glu Val Tyr Pro Glu Val Glu Leu Lys Gly Leu Glu Ser Ile Glu Val
 115 120 125
 Glu Lys Pro Ile Val Ser Val Thr Asp Glu Asp Val Asp Gly Met Leu
 130 135 140
 Asp Thr Leu Arg Lys Gln Gln Ala Asn Trp Lys Glu Lys Glu Gly Ala
 145 150 155 160
 Val Asp Ala Glu Asp Arg Val Thr Ile Asp Phe Thr Gly Ser Val Asp
 165 170 175
 Gly Glu Glu Phe Glu Gly Lys Ala Ser Asp Phe Val Leu Ala Met
 180 185 190
 Gly Gln Gly Arg Met Ile Pro Gly Phe Glu Asp Gly Ile Lys Gly His
 195 200 205
 Lys Ala Gly Glu Glu Phe Thr Ile Asp Val Thr Phe Pro Glu Glu Tyr
 210 215 220
 His Ala Glu Asn Leu Lys Gly Lys Ala Ala Lys Phe Val Ile Asn Leu
 225 230 235 240
 Lys Lys Val Glu Glu Arg Glu Leu Pro Glu Leu Thr Glu Glu Phe Ile
 245 250 255
 Lys Arg Phe Gly Val Glu Asp Gly Ser Val Ala Gly Leu Arg Thr Glu
 260 265 270
 Val Arg Lys Asn Met Glu Arg Glu Leu Asn Gly Ala Val Arg Asn Arg
 275 280 285
 Val Lys Ser Gln Ala Ile Glu Gly Leu Val Lys Ala Asn Asp Ile Asp
 290 295 300
 Val Pro Ala Ala Leu Ile Asp Ser Glu Ile Asp Val Leu Arg Arg Gln
 305 310 315 320
 Ala Ala Gln Arg Phe Gly Gly Asn Gln Gln Gln Ala Met Glu Leu Pro
 325 330 335
 Arg Glu Leu Phe Glu Glu Gln Ala Lys Arg Arg Val Val Val Gly Leu
 340 345 350
 Leu Leu Gly Glu Val Ile Arg Thr His Glu Leu Lys Ala Asp Glu Glu
 355 360 365
 Arg Val Lys Gly Leu Ile Glu Glu Met Ala Ser Ala Tyr Glu Asp Pro
 370 375 380
 Ser Glu Val Ile Glu Phe Tyr Gly Lys Asn Lys Glu Leu Met Asp Asn
 385 390 395 400
 Met Arg Asn Val Ala Leu Glu Glu Gln Ala Val Glu Ala Val Leu Ala
 405 410 415
 Lys Ala Lys Val Thr Glu Lys Glu Thr Ser Phe Thr Glu Leu Met Asn
 420 425 430
 His Gln Gly Val Ile Ser Pro Gln Arg Phe Lys Val Leu Asn Lys Lys
 435 440 445
 Pro Val Gly Pro Pro Gly Asp Gly Val Phe Phe Asn His Lys Leu
 450 455 460

<210> 5794

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 5794

Gly Leu His His Ala Gly Asp Pro Gly Tyr Arg Arg Ala Tyr Cys Leu
 1 5 10 15
 Ile Ala Asp Leu Cys His Cys Tyr Arg Asn Ala Gly Glu Arg His Arg
 20 25 30
 Arg Ser Gly Val Cys Arg Ala Gly His Ser Pro Cys Asp Ala His Ala

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<210> 5795
<211> 186
<212> PRT
<213> Enterobacter cloacae

<400> 5795
Leu Ala Gly Ile Ala Gly Ala Gln Leu Phe Asn Ala Met Thr Ala Tyr
1      5      10      15
Val Val Gly Thr Ser Ala Asn Ala Glu Gln Ser Arg Ser Val Met Phe
20      25      30
Trp Leu Leu Gly Ser Leu Ser Gly Val Arg Trp Pro Asp Ala Leu Leu
35      40      45
Ala Leu Ala Val Thr Leu Ala Gly Leu Leu Val Val Leu Leu Phe Ser
50      55      60
Arg Ala Leu Asp Thr Phe Thr Phe Gly Asp Glu Val Ser Thr Thr Leu
65      70      75      80
Gly Ile Pro Val Thr Ala Val Arg Ile Val Leu Leu Leu Thr Cys Ala
85      90      95
Ile Val Thr Ala Thr Leu Val Ser Ala Thr Gly Ala Val Gly Phe Val

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100										105					110				
Gly	Leu	Val	Ile	Pro	His	Val	Thr	Arg	Met	Leu	Cys	Gly	Pro	Gly	His				
115										120					125				
Arg	Arg	Ser	Ile	Pro	Leu	Thr	Phe	Leu	Ile	Gly	Ala	His	Phe	Met	Ile				
130										135					140				
Leu	Ala	Asp	Ile	Val	Ser	Arg	Thr	Leu	Ile	Val	His	Gln	Val	Leu	Pro				
145										150					155				
Ile	Gly	Val	Val	Thr	Ala	Leu	Val	Gly	Ala	Pro	Val	Phe	Val	Ala	Leu				
165										170					175				
Leu	Tyr	Gln	Asn	Arg	Lys	Glu	His	Pro											
180										185									

<210> 5796

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 5796

[illegible]

<210> 5797

<211> 192

<212> PRT

<213> Enterobacter cloacae

 $\langle 220 \rangle$

<221>UNSURE

<222> (41)

 $\langle 220 \rangle$

<221>UNSURE

<222> (67)

 $\langle 220 \rangle$

<221>UNSURE

$\langle 222 \rangle$ (71)

 $\langle 220 \rangle$

<221>UNSURE

<222> (72)

<400> 5797

Leu Thr Tyr Asp Lys Asn Asn Leu Met Ile Lys Leu Ser Asn Ile Thr
1 5 10 15

Lys Val Phe Gln Gln Gly Asn Arg Thr Ile Gln Ala Leu Asn Asn Val
 20 25 30
 Ser Leu His Val Pro Ala Gly Gln Xaa Tyr Gly Val Ile Gly Ala Ser
 35 40 45
 Gly Ala Gly Lys Ser Thr Leu Ile Arg Cys Val Asn Leu Leu Glu Arg
 50 55 60
 Pro Thr Xaa Gly Gln Arg Xaa Xaa Trp Arg Pro Gly Ala His Arg Ser
 65 70 75 80
 Leu Arg Lys Lys Asn Ser Pro Lys Arg Val Ala Gln Ile Gly Met Ile
 85 90 95
 Phe Leu His Phe Asn Leu Leu Ala Ser Arg Ser Val Phe Gly Asn Val
 100 105 110
 Ala Leu Pro Leu Glu Leu Asp Phe Ser Pro Leu Glu Glu Ile Ser Arg
 115 120 125
 Arg Val Ser Glu Leu Leu Asp Leu Val Gly Leu Gly Asp Lys His Asp
 130 135 140
 Ser Tyr Pro Ala Asn Leu Ser Gly Gly Leu Tyr Leu Arg Val Ser Ile
 145 150 155 160
 Ala Arg Ala Leu Ala Asn Asn Pro Lys Val Leu Leu Cys Asp Glu Ser
 165 170 175
 Ser Ser Ala Leu Tyr Pro Ala Thr Thr Arg Ser Ile Leu Glu Leu
 180 185 190

<210> 5798

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 5798

Lys Asp Ile Asn Arg Arg Leu Gly Leu Thr Ile Leu Leu Ile Thr His
 1 5 10 15
 Glu Met Asp Val Val Lys Arg Ile Cys Asp Cys Val Ala Val Ile Ser
 20 25 30
 Asn Gly Glu Leu Ile Glu Gln Asp Thr Val Ser Glu Val Phe Ser His
 35 40 45
 Pro Lys Thr Pro Leu Ala Gln Gln Phe Ile Gln Ser Thr Leu His Leu
 50 55 60
 Asp Ile Pro Glu Asp Tyr Leu Glu Arg Leu Lys Thr Glu Ala Val Ala
 65 70 75 80
 Asp Ser Val Pro Met Leu Arg Met Glu Phe Thr Gly Gln Ser Val Asp
 85 90 95
 Ala Pro Leu Leu Ser Glu Thr Ala Arg Phe Asn Val Asn Asn Asn
 100 105 110
 Ile Ile Ser Ala Gln Met Asp Tyr Ala Gly Gly Val Lys Phe Gly Ile
 115 120 125
 Met Leu Thr Glu Met His Gly Thr Gln Glu Glu Thr Gln Ala Ala Ile
 130 135 140
 Ala Trp Leu Gln Glu His His Val Lys Val Glu Val Leu Gly Tyr Val
 145 150 155 160

<210> 5799

<211> 205

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (205)

<400> 5799

Arg Tyr Trp Val Met Ser Glu Pro Met Met Trp Leu Leu Val Arg Gly
 1 5 10 15
 Val Trp Glu Thr Leu Ala Met Thr Phe Val Ser Gly Phe Phe Gly Phe
 20 25 30
 Val Ile Gly Leu Pro Val Gly Val Leu Leu Tyr Val Thr Arg Pro Gly
 35 40 45
 Gln Ile Ile Glu Asn Ala Lys Leu Tyr Arg Thr Leu Ser Ala Leu Val
 50 55 60
 Asn Ile Phe Arg Ser Ile Pro Phe Ile Ile Leu Leu Val Trp Met Ile
 65 70 75 80
 Pro Phe Thr Arg Val Ile Val Gly Thr Ser Ile Gly Leu Gln Ala Ala
 85 90 95
 Ile Val Pro Leu Thr Val Gly Ala Ala Pro Phe Ile Ala Arg Met Val
 100 105 110
 Glu Asn Ala Leu Leu Glu Ile Pro Thr Gly Leu Ile Glu Ala Ser Arg
 115 120 125
 Ala Met Gly Ala Thr Pro Met Gln Ile Val Arg Lys Val Leu Leu Pro
 130 135 140
 Glu Ala Leu Pro Gly Leu Val Asn Ala Ala Thr Ile Thr Leu Ile Thr
 145 150 155 160
 Leu Val Gly Tyr Ser Ala Met Gly Gly Ala Val Gly Ala Gly Gly Leu
 165 170 175
 Gly Gln Ile Gly Tyr Gln Tyr Gly Tyr Ile Gly Tyr Asn Ala Thr Val
 180 185 190
 Met Asn Thr Val Leu Val Leu Leu Val Val Leu Val Xaa
 195 200 205

<210> 5800

<211> 210

<212> PRT

<213> *Enterobacter cloacae*

<400> 5800

Ala Leu Tyr Cys Ala Ala Ile His Glu Ile Leu Ala Glu Gln Ala Phe
 1 5 10 15
 Phe Arg Ser Lys Pro Val Ala Lys Ser Val Pro Ala Ile Phe Leu Asp
 20 25 30
 Arg Asp Gly Thr Ile Asn Val Asp His Gly Tyr Val His Glu Ile Asp
 35 40 45
 Glu Phe Glu Phe Ile Glu Gly Val Ile Asp Ala Met Arg Gln Leu Lys
 50 55 60
 Glu Met Gly Tyr Ala Leu Val Val Val Thr Asn Gln Ser Gly Ile Ala
 65 70 75 80
 Arg Gly Lys Phe Thr Glu Ala Gln Phe Glu Thr Leu Thr Glu Trp Met
 85 90 95
 Asp Trp Ser Leu Ala Asp Arg Gly Val Asp Leu Asp Gly Ile Tyr Tyr
 100 105 110
 Cys Pro His His Pro Gln Gly Ser Val Glu Ala Tyr Arg Gln Thr Cys
 115 120 125
 Asp Cys Arg Lys Pro His Pro Gly Met Phe Ile Ser Ala Gln Glu Phe
 130 135 140
 Leu His Ile Asp Met Ala Ala Ser Tyr Met Val Gly Asp Lys Leu Glu
 145 150 155 160
 Asp Met Gln Ala Ala Thr Ala Ala Gly Val Gly Thr Lys Val Leu Val
 165 170 175
 Arg Thr Gly Lys Pro Val Thr Pro Glu Ala Glu Asn Ala Ala Asp Trp
 180 185 190
 Val Ile Thr Ser Leu Ala Glu Leu Pro Lys Glu Ile Lys Lys His Gln
 195 200 205
 Lys

210

<210> 5801

<211> 175

<212> PRT

<213> *Enterobacter cloacae*

<400> 5801

```

Arg Arg Trp  Lys Phe Ser Tyr Tyr Pro Leu Tyr Cys Pro Ile Pro Leu
1              5              10              15
Pro Arg Gly  His Tyr Gly Leu Asn Thr Ser Met Ser Gln Thr Glu Thr
                20              25              30
Thr Ala Pro Ser Lys Phe Ser Leu Leu Pro Gly Ser Ile Thr Arg Phe
                35              40              45
Phe Leu Leu Leu Ile Val Val Leu Leu Val Thr Met Gly Val Met Ile
                50              55              60
Gln Ser Ala Val Asn Thr Trp Leu Lys Asp Lys Ser Tyr Gln Ile Val
65              70              75              80
Asp Ile Thr His Ala Val His Lys Arg Ile Asp Thr Trp Arg Tyr Ala
                85              90              95
Thr Trp Gln Ile Tyr Asp Asn Ile Ala Ala Ala Pro Ala Thr Ser Ser
                100             105             110
Gly Glu Gly Leu Gln Glu Thr Arg Leu Lys Gln Asp Val Tyr Tyr Leu
                115             120             125
Glu Lys Pro Gln Arg Lys Thr Glu Ala Leu Ile Phe Gly Ser His Asp
                130             135             140
Ser Ala Thr Leu Glu Ile Tyr Gln Arg Ile Ser Ser Tyr Leu Asp Thr
145              150              155              160
Leu Trp Gly Pro Glu Asn Val Thr Val Val Pro Cys Ile Thr
                165              170              175

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<210> 5802

<211> 143

<212> PRT

<213> *Enterobacter cloacae*

<400> 5802

```

Leu Leu Ile Lys Asp Glu Leu Phe Ile Gln Glu Ile Lys Met Lys Gln
1              5              10              15
Thr Arg Leu Val Leu Ala Gly Ile Leu Val Leu Ala Pro Val Phe Ser
                20              25              30
Ala Met Ala Ala Pro Gln Ala Ala Thr Gly Cys Glu Ala Lys Arg Gln
                35              40              45
Asn Ile Glu Gln Gln Ile Glu His Ala Arg Thr His Asn Asn Asp His
                50              55              60
Arg Val Ala Gly Leu Gln Lys Ala Leu Ser Glu Leu Asn Ala Asn Cys
65              70              75              80
Thr Glu Glu Gly Leu Arg Ala Glu Arg Gln Ala Asp Val Arg Glu Lys
                85              90              95
Glu Arg Lys Val Glu Glu Arg Arg Gln Glu Leu Ala Glu Ala Gln Ala
                100             105             110
Asp Gly Arg Thr Asp Lys Ile Ser Lys Lys Glu Arg Lys Leu Lys Asp
                115             120             125
Ala Gln Ala Glu Leu Asp Glu Ala Arg Ser Val Leu Asn Lys
                130             135             140

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<210> 5803

<211> 218

<212> PRT

<213> *Enterobacter cloacae*

<400> 5803

```

Arg Thr Gln Pro Met Ala Gly Phe Leu Leu Phe Cys Pro Arg Tyr Ala
1      5      10      15
Leu Asn Phe Pro Phe Cys Gln Val Ile Val Ile Phe Phe Pro Asp Asn
20     25     30
Glu Asn Asp Met Thr Leu Ser Ala Leu Lys Ala Gly Ser Leu Leu Leu
35     40     45
Leu Met Ile Leu Phe Tyr Thr Gly Leu Phe Thr Ser Asp Arg Val Thr
50     55     60
Trp Leu Met Glu Val Thr Pro Val Ile Ile Ile Pro Leu Leu Leu
65     70     75     80
Ala Thr His Arg Arg Tyr Pro Leu Thr Pro Leu Leu Tyr Thr Leu Val
85     90     95
Phe Phe His Ala Ile Ile Leu Met Val Gly Gly Met Tyr Thr Tyr Ala
100    105    110
Lys Val Pro Val Gly Phe Glu Val Gln Glu Met Leu Gly Leu Ser Arg
115    120    125
Asn Pro Tyr Asp Lys Leu Gly His Phe Phe Gln Gly Leu Val Pro Ala
130    135    140
Leu Ala Ala Arg Glu Ile Leu Leu Arg Gly Gly Tyr Val Arg Gly His
145    150    155    160
Lys Met Thr Gly Phe Leu Val Cys Cys Val Ala Leu Ala Ile Ser Ala
165    170    175
Thr Phe Asn Ser Leu Ser Gly Gly Leu Leu Trp Arg Trp Asp Arg Val
180    185    190
Arg Met Ile Phe Trp Gly Arg Arg Ala Ile His Gly Ile Pro Ser Leu
195    200    205
Ile Cys Phe Ala Arg Cys Leu Val Arg
210    215

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<210> 5804

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 5804

```

Leu Ile Glu Trp Trp Ala Ala Leu Ala Met Gly Gln Gly Ala Asp Asp
1      5      10      15
Phe Leu Gly Thr Gln Gly Asp Pro Trp Asp Thr Gln Ser Asp Met Phe
20     25     30
Cys Ala Leu Leu Gly Ala Leu Thr Thr Val Leu Ile Leu Gly Arg Phe
35     40     45
His Gln Arg Gln Leu Arg Arg Leu Asn Val Asp Ser Ala Leu
50     55     60

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<210> 5805

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 5805

```

Met Cys Pro Pro Arg Leu Leu Lys Thr Cys Gly Ala Glu Ile Ala Ile
1      5      10      15
Ser Ile Pro Ala His Val Arg Leu Val Met Val Ala Glu Ala Pro Pro
20     25     30
Ala Leu Asn Glu Pro Leu Ile Glu Asp Val Leu Arg Ser Leu Lys Val
35     40     45
Thr His Asp Gln Val Leu Gln Leu Ala Pro Glu Ser Val Ala Met Leu
50     55     60
Pro Ser Asp Ser Arg Cys Asn Ser Trp Arg Ile Gly Ala Val Asp Glu
65     70     75     80

```

Leu Pro Leu Glu Gly Ser Gln Ile Ser Ser Pro Ala Leu Asp Glu Leu
 85 90 95
 Lys Ala Asn Pro Lys Ala Arg Ser Ala Leu Trp Gln Gln Ile Cys Glu
 100 105 110
 Tyr Glu His Asp Phe Phe Pro His Asp Gly
 115 120

<210> 5806

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 5806

Lys Pro Thr Gln Lys Arg Val Ala Arg Tyr Gly Asn Lys Phe Ala Asn
 1 5 10 15
 Met Asn Thr Ile Ser Ser Leu Thr Thr Ala Asp Leu Thr Thr Ala Phe
 20 25 30
 Ala Ile Glu Thr Arg Ala His Ala Phe Pro Trp Ser Glu Lys Thr Phe
 35 40 45
 Ala Ser Asn Gln Gly Glu Arg Tyr Leu Asn Leu Arg Leu Asp Val Asp
 50 55 60
 Gly Ala Met Ala Ala Phe Ala Ile Thr Gln Val Val Leu Asp Glu Ala
 65 70 75 80
 Thr Leu Phe Asn Ile Ala Val Asp Pro Ala Tyr Gln Arg Arg Gly Leu
 85 90 95
 Gly Arg Glu Leu Leu Glu His Leu Ile His Glu Leu Glu Thr Arg Asp
 100 105 110
 Val Phe Thr Leu Trp Leu Glu Val Arg Ala Ser Asn Val Ala Ala Ile
 115 120 125
 Ala Leu Tyr Glu Ser Leu Gly Phe Asn Glu Ala Thr Ile Arg Arg Asn
 130 135 140
 Tyr Tyr Pro Thr Ala Glu Gly Arg Glu Asp Ala Ile Ile Met Ala Leu
 145 150 155 160
 Pro Ile Gly

<210> 5807

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 5807

Glu Glu Leu Ile Met Thr Leu Ser Pro Tyr Leu Gln Glu Val Ala Lys
 1 5 10 15
 Arg Arg Thr Phe Ala Ile Ile Ser His Pro Asp Ala Gly Lys Thr Thr
 20 25 30
 Ile Thr Glu Lys Val Leu Leu Phe Gly Gln Ala Ile Gln Thr Ala Gly
 35 40 45
 Thr Val Lys Gly Arg Gly Ser Ser Gln His Ala Lys Ser Asp Trp Met
 50 55 60
 Glu Met Glu Lys Gln Arg Gly Ile Ser Ile Thr Thr Ser Val Met Gln
 65 70 75 80
 Phe Pro Tyr His Asp Cys Leu Val Asn Leu Leu Asp Thr Pro Gly His
 85 90 95
 Glu Asp Phe Ser Glu Asp Thr Tyr Arg Thr Leu Thr Gly Pro Glu Val
 100 105 110
 Phe Thr Ser Asp
 115

<210> 5808

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 5808

Ala Ser Thr Arg Arg Leu Ser Ala Val Thr Thr Thr Pro Pro Gln Arg
 1 5 10 15
 Asp Val Lys Thr Pro Leu Ser Trp Leu Cys Arg Leu Asp Asn Glu Asn
 20 25 30
 Lys Val Val Thr Met Lys Trp Asp Trp Ile Phe Phe Asp Ala Asp Glu
 35 40 45
 Thr Leu Phe Thr Phe Asp Ser Phe Gly Gly Leu Gln Arg Met Phe Leu
 50 55 60
 Asp Tyr Ser Val Thr Phe Thr Ala Glu Asp Phe Gln Asp Tyr Gln Ala
 65 70 75 80
 Val Asn Lys Pro Leu Trp Val Asp Tyr Gln Asn Gly Ala Ile Thr Ala
 85 90 95
 Leu Gln Leu Gln His Gln Arg Phe Asp Val Trp Ala Glu Arg Leu Asn
 100 105 110
 Val Ser Pro Gly Val Leu Asn Glu Ala Phe Leu Asn Ala Met Ala Asp
 115 120 125
 Ile Cys Ala Pro Leu Pro Gly Ala Val Ser Leu Leu Asp Ser Leu Lys
 130 135 140
 Gly Lys Val Lys Leu Gly Ile Ile Thr Asn Gly Phe Thr Ala Leu Gln
 145 150 155 160
 Gln Ile Arg Leu Glu Arg Thr Gly Leu Arg Asp His Phe Asp Ala Leu
 165 170 175
 Val Ile Ser Glu Glu Val Gly Val Pro Lys Pro Asp Pro Arg Ile Phe
 180 185 190
 Asp Tyr Ala Leu Ala Gln Ala Gly Asn Pro Asp Arg Asp Arg Val Leu
 195 200 205
 Met Val Gly Asp Thr Ala Glu Ser Asp Ile Leu Gly Gly Met Arg Ser
 210 215 220
 Gly Leu Ser Thr Val Trp Leu Asn Ala His Gly Arg Met Leu Pro Glu
 225 230 235 240
 Gly Ile Glu Pro Thr Trp Thr Val Thr Ser Leu Asn Glu Leu Glu Gln
 245 250 255
 Leu Leu Cys Lys Gln
 260

<210> 5809

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 5809

Lys Pro Asn Asp Arg Leu Leu Lys Arg Ser Val Phe Phe Met Ser Arg
 1 5 10 15
 Ser Leu Leu Thr Asn Glu Thr Ser Glu Leu Asp Leu Leu Asp Gln Arg
 20 25 30
 Pro Phe Asp Gln Thr Asp Phe Asp Ile Leu Lys Ser Tyr Glu Ala Val
 35 40 45
 Val Asp Gly Leu Ala Met Leu Ile Gly Ser His Cys Glu Ile Val Leu
 50 55 60
 His Ser Leu Gln Asp Leu Lys Cys Ser Ala Ile Arg Ile Ala Asn Gly
 65 70 75 80
 Glu His Thr Gly Arg Lys Ile Gly Ser Pro Ile Thr Asp Leu Ala Leu
 85 90 95
 Arg Met Leu His Asp Met Thr Gly Ala Asp Ser Ser Val Ser Lys Cys
 100 105 110
 Tyr Phe Thr Arg Ala Lys Ser Gly Val Leu Met Lys Ser Glu Thr Ile
 115 120 125

Ala Ile Arg Asn Arg Glu His Arg Val Ile Gly Leu Leu Cys Ile Asn
 130 135 140
 Met Asn Leu Asp Val Pro Phe Ser Gln Ile Met Ser Thr Phe Ile Pro
 145 150 155 160
 Pro Glu Thr Pro Asp Val Gly Ser Ser Val Asn Phe Ala Ser Ser Val
 165 170 175
 Glu Asp Leu Val Thr Gln Thr Leu Glu Phe Thr Ile Glu Glu Val Asn
 180 185 190
 Ala Asp Arg Asn Val Ser Asn Asn Ala Lys Asn Arg Gln Ile Val Leu
 195 200 205
 Asn Leu Tyr Glu Lys Gly Ile Leu Ile Ser Lys Met Pro Ser Thr Gln
 210 215 220
 Trp Pro Asp Arg Leu Asn Ile Ser
 225 230

<210> 5810

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 5810

Arg Pro Glu Ile Arg Tyr Ala Leu Gly Ser Phe Leu Gly Arg Tyr Met
 1 5 10 15
 Glu Asn Ser Leu Lys Glu Gln Glu Lys Leu Gly Ile Lys Leu Asp Lys
 20 25 30
 Asn Gln Leu Ile Ala Gly Val Gln Asp Ala Phe Ala Asp Lys Ser Lys
 35 40 45
 Leu Ser Asp Gln Glu Ile Glu Gln Thr Leu Gln Ala Phe Glu Ala Arg
 50 55 60
 Val Lys Gly Ala Ala Gln Thr Lys Met Glu Ala Asp Ala Lys Asp Asn
 65 70 75 80
 Glu Ala Lys Gly Lys Ala Tyr Arg Asp Lys Phe Ala Lys Glu Lys Gly
 85 90 95
 Val Lys Thr Ser Ser Thr Gly Leu Ile Tyr Lys Val Glu Lys Glu Gly
 100 105 110
 Thr Gly Asp Ala Pro Lys Asp Ser Asp Thr Val Val Val Asn Tyr Lys
 115 120 125
 Gly Thr Leu Ile Asp Gly Lys Glu Phe Asp Asn Ser Tyr Thr Arg Gly
 130 135 140
 Glu Pro Leu Ser Phe Arg Leu Asp Gly Val Ile Pro Gly Trp Thr Glu
 145 150 155 160
 Gly Leu Lys Asn Ile Lys Lys Gly Gly Lys Ile Lys Leu Val Ile Pro
 165 170 175
 Pro Asp Leu Ala Tyr Gly Lys Thr Gly Val Pro Gly Ile Pro Ala Asn
 180 185 190
 Ser Thr Leu Val Phe Asp Val Glu Leu Leu Asp Ile Lys Pro Ala Pro
 195 200 205
 Lys Ala Asp Ala Lys Thr Asp Ala Pro Ala Asp Asp Lys Ala Ala Ala
 210 215 220
 Ala Lys Lys
 225

<210> 5811

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 5811

Thr Ser Pro Cys Asn Leu Ser Arg Ser Phe Gly Pro Leu Val Lys Ile
 1 5 10 15
 Ala Thr Ala Thr Asp Arg Leu Lys Ala Ile Leu Ile His Gly Val Asn

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<210> 5812
<211> 223
<212> PRT
<213> Enterobacter cloacae
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1           5           10           15
Tyr Pro Val Ser Lys Val Val Cys Val Gly Ser Asn Tyr Ala Lys His
20          25          30
Ile Gln Glu Met Gly Ser Ala Val Pro Glu Glu Pro Val Leu Phe Ile
35          40          45
Lys Pro Glu Thr Ala Leu Cys Asp Ile Arg Gln Pro Leu Val Leu Pro
50          55          60
Gln Gly Leu Gly Ser Val His His Glu Val Glu Leu Ala Val Leu Ile
65          70          75          80
Gly Ala Thr Leu Arg Gln Ala Thr Glu Glu His Val Glu Lys Ala Ile
85          90          95
Ala Gly Tyr Gly Val Ala Leu Asp Leu Thr Leu Arg Asp Val Gln Gly
100         105         110
Lys Met Lys Lys Ala Gly Gln Pro Trp Glu Lys Ala Lys Gly Phe Asp
115         120         125
Asn Ser Cys Pro Ile Ser Gly Phe Ile Pro Val Ser Glu Phe Thr Asp
130         135         140
Asp Pro Gln Asn Thr Pro Leu Ser Leu Lys Val Asn Gly Glu Ile Arg
145         150         155         160
Gln Gln Gly Thr Thr Ala Asp Met Ile His Lys Ile Val Pro Leu Ile
165         170         175
Ala Tyr Met Ser Arg Phe Phe Thr Leu Lys Pro Gly Asp Val Ile Leu
180         185         190
Thr Gly Thr Pro Glu Gly Val Gly Pro Leu Leu Ser Gly Asp Glu Leu
195         200         205
Asp Val Ser Phe Asn Gly Leu Ser Leu Lys Thr Arg Val Leu
210         215         220

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<210> 5813

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 5813

```

His Pro Gly Leu Thr Gln Phe Ala Ile Asn Arg Asn Thr Ser Pro Arg
1           5           10           15
Tyr Ser Glu Glu Tyr Gln Ala Cys Tyr Ser Gln Glu Tyr Ile Glu Ala
20          25          30
Ser Asn His Pro Leu Ile Gln Ser Lys Asn Met Phe Cys Val Ile Tyr
35          40          45
Arg Ser Thr Ser Arg Asp Gln Thr Tyr Leu Tyr Val Glu Lys Lys Asp
50          55          60
Asp Phe Ser Arg Val Pro Glu Glu Leu Met Lys Ser Phe Gly Arg Pro
65          70          75          80
Gln Leu Ala Met Leu Leu Pro Leu Asp Gly Arg Lys Lys Leu Val Asn
85          90          95
Ala Asp Leu Glu Lys Val Lys Lys Ala Leu Thr Glu Gln Gly Tyr Tyr
100         105         110
Leu Gln Leu Pro Pro Pro Glu Asn Leu Leu Lys Gln His Leu Glu
115         120         125
Val Ser Gly Lys Lys
130

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<210> 5814

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 5814

```

Gln Gly Ile Ser Met Ala Arg Ile Ile Val Val Thr Ser Gly Lys Gly
1           5           10           15

```

Gly Val Gly Lys Thr Thr Ser Ser Ala Ala Ile Ala Thr Gly Leu Ala
 20 25 30
 Gln Lys Gly Lys Lys Thr Val Val Ile Asp Phe Asp Ile Gly Leu Arg
 35 40 45
 Asn Leu Asp Leu Ile Met Gly Cys Glu Arg Arg Val Val Tyr Asp Phe
 50 55 60
 Val Asn Val Ile Gln Gly Asp Ala Thr Leu Asn Gln Ala Leu Ile Lys
 65 70 75 80
 Asp Lys Arg Thr Glu Asn Leu Tyr Ile Leu Pro Ala Ser Gln Thr Arg
 85 90 95
 Asp Lys Asp Ala Leu Thr Arg Glu Gly Val Glu Lys Val Leu Asp Asp
 100 105 110
 Leu Lys Lys Met Glu Phe Asp Phe Val Val Cys Asp Ser Pro Ala Gly
 115 120 125
 Ile Glu Thr Gly Ala Leu Met Ala Leu Tyr Phe Ala Asp Glu Ala Ile
 130 135 140
 Ile Thr Thr Asn Pro Glu Val Ser Ser Val Arg Asp Ser Asp Arg Ile
 145 150 155 160
 Leu Gly Ile Leu Ala Ser Lys Ser Arg Arg Ala Glu Asn Gly Gln Glu
 165 170 175
 Pro Ile Lys Glu His Leu Leu Leu Thr Arg Tyr Asn Pro Gly Arg Val
 180 185 190
 Asn Lys Gly Asp Met Leu Ser Met Glu Asp Val Leu Glu Ile Leu Arg
 195 200 205
 Ile Lys Leu Val Gly Val Ile Pro Glu Asp Gln Ser Val Leu Arg Ala
 210 215 220
 Ser Asn Gln Gly Glu Pro Leu Ile Leu Asp Thr Gln Ala Glu Ala Gly
 225 230 235 240
 Lys Ala

<210> 5815

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 5815

Arg Val Val Ala Cys Leu Asn Ile Leu Leu Thr Ile Thr Cys Leu Ile
 1 5 10 15
 Leu Phe Gly Ile Ser Arg Arg Cys Val Ala Val Asn Ser Lys Leu Ser
 20 25 30
 Lys Ala Arg Met Ser Asn Thr Pro Ile Glu Leu Lys Gly Ser Ser Phe
 35 40 45
 Thr Leu Ser Val Val His Leu His Asp Ala Lys Pro Glu Val Ile Arg
 50 55 60
 Gln Ala Leu Glu Asp Lys Ile Ala Gln Ala Pro Ala Phe Leu Lys His
 65 70 75 80
 Ala Pro Val Val Val Asn Val Ser Asp Leu Glu Gly Pro Val Asn Trp
 85 90 95
 Lys Arg Leu Gln Gln Ala Val Thr Ser Thr Gly Leu Arg Ile Val Gly
 100 105 110
 Ile Ser Gly Cys Lys Asp Ala Glu Leu Lys Ala Glu Ile Glu Arg Ala
 115 120 125
 Gly Leu Pro Leu Leu Asn Glu Gly Lys Glu Lys Ala Pro Arg Ala Thr
 130 135 140
 Pro Ala Thr Val Pro Ala Pro Pro Pro Ala Gln Asn Val Ala Pro
 145 150 155 160
 Val Thr Lys Thr Arg Leu Ile Asp Leu Pro Val Arg Ser Gly Gln Arg
 165 170 175
 Ile Tyr Ala Pro Asn Cys Asp Leu Ile Val Thr Ser His Val Ser Ala
 180 185 190

Gly Ala Glu Leu Ile Ala Asp Gly Asn Ile His Val Tyr Gly Met Met
 195 200 205
 Arg Gly Arg Ala Leu Ala Gly Ala Ser Gly Asp Arg Glu Ala Gln Ile
 210 215 220
 Phe Cys Thr His Leu Thr Ala Glu Leu Val Ser Ile Ala Gly Glu Tyr
 225 230 235 240
 Trp Leu Ser Asp Lys Ile Pro Ala Glu Phe Tyr Gly Lys Ala Ala Arg
 245 250 255
 Leu Gln Leu Ala Asp Asn Ala Leu Thr Val Gln Pro
 260 265

<210> 5816

<211> 616

<212> PRT

<213> Enterobacter cloacae

<400> 5816

Phe Val Gln Leu Ile Asn Leu Leu Ser Ile Arg Ser Ile Arg Arg Trp
 1 5 10 15
 Leu Asn Arg Ser His Gly Leu Met Asn Arg Lys Ile Tyr Asn Asn Val
 20 25 30
 Lys Ile Phe Met Ile Val Leu Ala Leu Ser Leu Ile Thr Ile Pro Phe
 35 40 45
 Ser Arg Tyr Ile Ser Pro Arg Ala Ile Val Asn Glu Asn Asp Val Tyr
 50 55 60
 Leu Ala Trp Leu Pro Leu Ser Ala Met Leu Ala Ile Val Leu Leu Phe
 65 70 75 80
 Gly Arg Arg Ala Ile Ile Pro Leu Leu Ile Gly Phe Ser Val Thr Asn
 85 90 95
 Ile Tyr Tyr Phe Asp Leu Ala Leu Leu Gln Ser Ser Val Leu Leu Ile
 100 105 110
 Cys Gln Thr Phe Ala Val Phe Ala Ala Cys Gly Val Ile Arg Leu Met
 115 120 125
 Leu Gly Lys Arg Trp Arg His Ser Ile Pro Asn Lys Tyr Ile Gly Ile
 130 135 140
 Arg Ile Phe Trp Leu Gly Phe Val Val Pro Val Gly Ile Lys Leu Ser
 145 150 155 160
 Met Tyr Leu Ala Gly Tyr Leu Phe Asp Phe Pro Val Thr Ile Ser Ser
 165 170 175
 Tyr Phe Gly Glu Gly Ser Ala Ile Tyr Asn Val Ile Asp Ile Gln Ser
 180 185 190
 Leu Ile Cys Ala Ala Leu Ile Phe Thr Met Met Phe Tyr Tyr Pro Leu
 195 200 205
 Arg Met Ile Ile Asn Pro Arg Tyr Ala Arg Thr Phe Trp Arg Arg Ser
 210 215 220
 Val Lys Pro Leu Phe Cys His Lys Lys Val Leu Phe Ile Val Val Trp
 225 230 235 240
 Leu Met Leu Leu Val Ser Met Ile Ala Ile Leu Cys Ala Pro Phe Glu
 245 250 255
 Ser Gln Phe Ile Ala Gly Tyr Leu Met Pro Ile Val Phe Ile Leu Phe
 260 265 270
 Thr Leu Gly Ile Gly Arg Leu Ser Tyr Ala Leu Ile Ser Leu Leu Trp
 275 280 285
 Ala Ala Ser Ala Leu Met Leu Leu Thr Tyr Asn Tyr Asn Phe Leu Asn
 290 295 300
 Gly Val Glu Ser Gly His Ser Leu Ser Phe Ile Leu Ser Val Leu Ile
 305 310 315 320
 Ser Phe Ala Ile Cys Leu Leu Tyr Met Ser Arg Ile Tyr Gln Lys Ser
 325 330 335
 Glu Trp Leu Lys Gln Gly Trp Gln Glu Arg Ala Leu Thr Asp Pro Leu
 340 345 350

Thr Gly Leu Pro Asn Ile Arg Ala Leu Glu Val Phe Leu Gln His His
 355 360 365
 Pro Glu Ala Lys Ile Cys Cys Leu Arg Leu Asp Asn Leu Glu Phe Leu
 370 375 380
 Ser Arg His Tyr Gly Ile Leu Met Arg Val His Cys Lys Lys Met Ile
 385 390 395 400
 Thr Ala Ser Leu Gln Pro Leu Leu Gln Lys Asp Glu Lys Leu Phe Gln
 405 410 415
 Leu Pro Gly Ser Glu Leu Val Val Val Leu Leu Gly Pro Gly Thr Ala
 420 425 430
 Glu Arg Leu Gln Tyr Met Val Asp His Leu Asn Ser Arg Lys Ile Val
 435 440 445
 Trp Asn Lys Thr Glu Leu Asp Ile Glu Phe Gly Ala Ser Trp Gly Glu
 450 455 460
 Val Pro Asp Gly Glu Ser Leu His His Thr Leu Gly Gln Leu Ser Trp
 465 470 475 480
 Leu Ser Glu Gln Ser Cys Gly Gly His Asn Val Leu Ala Leu Thr Asn
 485 490 495
 Ser Leu Asp Asp Val Ser Gly Gln Thr Thr Asp Arg Val Leu Met Leu
 500 505 510
 Ala Arg Ile Lys Arg Ala Leu Asp Ile Gly Gly Leu His Leu Tyr Ala
 515 520 525
 Gln Pro Ile His Thr Ala Arg Gly Glu Arg Tyr Phe Asp Ile Pro Ser
 530 535 540
 Thr Leu Glu Ser Asp Gly Glu Ile Leu His Pro Asp Arg Leu Ile Pro
 545 550 555 560
 Pro Met Ala Gln Phe Asn Leu Asn Pro Arg Phe Asp Ser Asn Phe Trp
 565 570 575
 Asn Lys Cys Gly Cys Arg Phe Ala Thr Thr Pro Leu Glu Leu Ile Glu
 580 585 590
 Ser Pro Pro Arg Gln Thr Asp Ala Leu Asn Leu Lys Gln His Lys Met
 595 600 605
 Gly Ala Lys Phe Phe Ala Phe
 610 615

<210> 5817

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 5817

Arg Ala Gly Phe Val Glu Asn Val Ala Ala Thr Ala Gln Thr Val Glu
 1 5 10 15
 Gln Leu Leu Lys Leu Gly Phe Thr Val Ala Ile Glu Ser Gly Ala Gly
 20 25 30
 Thr Leu Ala Ser Phe Asp Asp Glu Ala Phe Thr Gln Ala Gly Ala Asp
 35 40 45
 Val Val Asp Gly Ala Glu Val Trp Gln Ser Pro Ile Ile Leu Lys Val
 50 55 60
 Asn Ala Pro Glu Glu Gly Glu Ile Glu Leu Leu Asn Ala Gly Thr Thr
 65 70 75 80
 Leu Val Ser Phe Val Trp Pro Ala Gln Asn Pro Glu Leu Met Glu Lys
 85 90 95
 Leu Ala Ala Arg Gly Val Thr Val Met Ala Met Asp Ser Val Pro Arg
 100 105 110
 Ile Ser Arg Ala Gln Ser Leu Asp Ala Leu Ser Ser Met Ala Asn Ile
 115 120 125
 Ala Gly Tyr Arg Ala Ile Val Glu Ala Ala His Glu Phe Gly Arg Phe
 130 135 140
 Phe Thr Gly Gln Ile Thr Ala Ala Gly Lys Val Pro Pro Ala Lys Val
 145 150 155 160

Met Val Ile Gly Ala Gly Val Ala Gly Leu Ala Ala Ile Gly Ala Ala
 165 170 175
 Asn Ser Leu Gly Ala Ile Val Arg Ala Phe Asp Thr Arg Pro Glu Val
 180 185 190
 Lys Glu Gln Val Gln Ser Met Gly Ala Glu Phe Leu Glu Leu Asp Phe
 195 200 205
 Lys Glu Glu Ala Gly Ser Gly Asp Gly Tyr Ala Lys Val Met Ser Glu
 210 215 220
 Ala Phe Ile Lys Ala Glu Met Ala Leu Phe Ala Ala Gln Ala Lys Glu
 225 230 235 240
 Val Asp Ile Ile Val Thr Thr Ala Leu Ile Pro Gly Lys Pro Ala Pro
 245 250 255
 Lys Leu Ile Thr Arg Glu Met Val Asp Ser Met Gln Pro Gly Ser Val
 260 265 270
 Ile Val Asp Leu Ala Ala Gln Asn Gly Gly Asn Cys Glu Tyr Thr Val
 275 280 285
 Pro Asn Gln Val Thr Thr Thr Ala Asn Gly Val Lys Val Ile Gly Tyr
 290 295 300
 Thr Asp Leu Pro Gly Arg Leu Pro Thr Gln Ser Ser Gln Leu Tyr Gly
 305 310 315 320
 Thr Asn Leu Val Asn Leu Leu Lys Leu Leu Cys Lys Glu Lys Asp Gly
 325 330 335
 Asn Ile Thr Val Asp Phe Asp Asp Val Val Val Arg Gly Val Thr Val
 340 345 350
 Val Arg Glu Gly Glu Ile Thr Trp Pro Ala Pro Pro Ile Gln Val Ser
 355 360 365
 Ala Gln Pro Gln Ala Ala Pro Lys Ala Ala Pro Glu Pro Ala Glu Pro
 370 375 380
 Ala Lys Pro Ala Ser Pro Trp Arg Lys Tyr Ala Ile Met Ala Leu Val
 385 390 395 400
 Ile Ile Leu Phe Gly Trp Leu Ala Asp Val Ala Pro Lys Glu Phe Leu
 405 410 415
 Gly His Phe Thr Val Phe Ala Leu Ser Cys Val Val Gly Tyr Tyr Val
 420 425 430
 Val Trp Asn Val Ser His Ala Leu His Thr Pro Leu Met Ser Val Thr
 435 440 445
 Asn Ala Ile Ser Gly Ile Ile Val Val Gly Ala Leu Leu Gln Ile Gly
 450 455 460
 His Gly Gly Trp Ile Ser Phe Leu Ser Phe Ile Ala Val Leu Ile Ala
 465 470 475 480
 Ser Ile Asn Ile Phe Gly Gly Phe Thr Val Thr Gln Arg Met Leu Lys
 485 490 495
 Met Phe Arg Lys Gly
 500

<210> 5818

<211> 193

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (13)

<220>

<221> UNSURE

<222> (58)

<220>

<221> UNSURE

<222> (83)

<400> 5818

Gln Arg Gly Asn Leu Ile Trp Thr Trp Tyr Gly Ala Xaa Ile Phe His
 1 5 10 15
 Thr Pro Val Asn Glu Val Ala His Gly Lys Trp Ala Leu Leu Thr Ser
 20 25 30
 Gly Ser Lys Ser Phe His Ile Pro Ala Leu Thr Gly Ala Trp Gly Leu
 35 40 45
 Phe Ala Asp Asp Ala Ser Arg Asn Ala Xaa Leu Asn Ala Leu Lys Gly
 50 55 60
 Arg Asp Gly Leu Ser Ser Leu Ser Val Leu Ala Leu Thr Ala His Ile
 65 70 75 80
 Ala Ala Xaa Arg Gln Gly Glu Pro Trp Leu Asp Ala Leu Arg Thr Tyr
 85 90 95
 Leu Glu Glu Asn Leu Arg Tyr Val Ala Arg Glu Leu Asn Ser Ala Phe
 100 105 110
 Pro Ala Leu Ser Trp Gln Pro Pro Glu Ala Thr Tyr Leu Ala Trp Ile
 115 120 125
 Asp Leu Ser Pro Leu Gly Ile Asp Asp Asn Thr Leu Gln Lys Val Leu
 130 135 140
 Ile Glu Gln Gln Lys Val Ala Ile Met Pro Gly Tyr Thr Tyr Gly Ala
 145 150 155 160
 Glu Gly Lys Gly Tyr Val Arg Leu Asn Ala Gly Cys Pro Arg Ser Lys
 165 170 175
 Leu Glu Gln Gly Val Gln Arg Leu Ile Ala Gly Ile Asn Thr Leu Leu
 180 185 190

<210> 5819

<211> 337

<212> PRT

<213> *Enterobacter cloacae*

<400> 5819

Pro Ala Lys Ser Ala Thr Met Ile Asp Thr Arg Leu Pro Leu Thr Asp
 1 5 10 15
 Ile His Arg His Leu Asp Gly Asn Ile Arg Ala Gln Thr Ile Leu Asp
 20 25 30
 Leu Gly Arg Gln Phe Asn Leu Thr Leu Pro Ala Glu Thr Leu Glu Thr
 35 40 45
 Leu Ile Pro His Val Gln Val Thr Ser Asn Glu Pro Asp Leu Val Ser
 50 55 60
 Phe Leu Ser Lys Leu Asp Trp Gly Val Lys Met Leu Ala Ser Val Asp
 65 70 75 80
 Ala Cys Arg Arg Val Ala Phe Glu Asn Ile Glu Asp Ala Ala Arg Asn
 85 90 95
 Gly Leu His Tyr Val Glu Leu Arg Phe Ser Pro Gly Tyr Met Ala Met
 100 105 110
 Thr His Asn Leu Pro Val Ala Gly Val Val Glu Ala Val Ile Glu Gly
 115 120 125
 Val Arg Glu Gly Cys Lys Thr Phe Asp Val Gln Ala Arg Leu Ile Gly
 130 135 140
 Ile Met Ser Arg Thr Phe Gly Glu Ala Ala Cys Leu Gln Glu Leu Glu
 145 150 155 160
 Ala Leu Leu Ala His Arg Asp Gln Ile Thr Ala Ile Asp Leu Ala Gly
 165 170 175
 Asp Glu Leu Gly Phe Pro Gly Ser Leu Phe Leu Ser His Phe Asn Arg
 180 185 190
 Ala Arg Asp Ala Gly Trp His Ile Thr Val His Ala Gly Glu Ala Ala
 195 200 205

Gly Pro Glu Ser Ile Trp Gln Ala Ile Arg Glu Leu Gly Ala Glu Arg
 210 215 220
 Ile Gly His Gly Val Lys Ala Ile Glu Asp Arg Ala Leu Met Asp Phe
 225 230 235 240
 Leu Ala Glu Gln Arg Ile Gly Ile Glu Ser Cys Leu Thr Ser Asn Ile
 245 250 255
 Gln Thr Ser Thr Val Ala Ser Leu Ala Gln His Pro Leu Lys Thr Phe
 260 265 270
 Leu Glu His Gly Val Leu Ala Ser Leu Asn Thr Asp Asp Pro Ala Val
 275 280 285
 Gln Gly Val Asp Ile Ile His Glu Tyr Asn Ile Ala Ala Pro Gln Ala
 290 295 300
 Gly Leu Ser Arg Glu Gln Ile Arg Gln Ala Gln Ile Asn Gly Leu Glu
 305 310 315 320
 Ile Ala Phe Leu Ile Phe Thr Thr Arg Ala Glu Arg Ser Thr Leu Cys
 325 330 335
 Val

<210> 5820
 <211> 133
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (126)

<400> 5820
 Arg Asp Gln Arg Ala Gly Asn Ile Pro Leu Ser Cys Met Ala Gly Ala
 1 5 10 15
 His Glu Phe Arg Gln His Gly Phe His Ala Arg Gln Val Gly His Leu
 20 25 30
 Leu Ala His Val Leu Glu Leu Val Phe Gly Gln Ala Ala Gly Leu Leu
 35 40 45
 Ala Val Gly Ala Ile Val Glu Pro Gln Gln Leu Gly Asn Leu Val Gln
 50 55 60
 Thr Glu Pro Gln Pro Leu Cys Arg Phe His Glu Phe His Pro Asn His
 65 70 75 80
 Val Arg Leu Pro Ile Ala Ala Asp Ala Ala Val Arg Leu Val Arg Phe
 85 90 95
 Pro Gln Gln Ala Leu Ala Leu Ile Glu Ala Asp Cys Leu His Val Asp
 100 105 110
 Pro Gly Arg Leu Gly Lys Asn Ala Asn Gly Gln Val Phe Xaa Ile Ile
 115 120 125
 Phe His Ile Ala
 130

<210> 5821
 <211> 99
 <212> PRT
 <213> Enterobacter cloacae

<400> 5821
 Gly Ile Ala Asp Leu Ala Arg Pro Ala Ser Pro Cys Ser Asp Ala Ile
 1 5 10 15
 Asn Gly Gln Glu Thr Phe Pro Phe Arg Ala Trp Gln Ala His Thr Ser
 20 25 30
 Ser Asp Ser Thr Val Ser Met Arg Ala Lys Ser Ala Ile Phe Ser Arg
 35 40 45
 Thr Ser Leu Ser Leu Cys Ser Ala Arg Leu Leu Ala Ser Ser Gln Trp

50						55						60					
Val	Pro	Ser	Ser	Ser	Arg	Asn	Ser	Ser	Ala	Ile	Ser	Ser	Arg	Leu	Asn		
65					70					75				80			
Pro	Ser	Arg	Cys	Ala	Asp	Phe	Thr	Asn	Phe	Thr	Arg	Thr	Thr	Ser	Ala		
				85					90					95			
Ser	Pro																

<210> 5822
 <211> 113
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(14)

<220>
 <221>UNSURE
 <222>(72)

<220>
 <221>UNSURE
 <222>(73)

<220>
 <221>UNSURE
 <222>(74)

<220>
 <221>UNSURE
 <222>(75)

<220>
 <221>UNSURE
 <222>(76)

<220>
 <221>UNSURE
 <222>(77)

<220>
 <221>UNSURE
 <222>(78)

<220>
 <221>UNSURE
 <222>(79)

<220>
 <221>UNSURE
 <222>(80)

<220>
 <221>UNSURE
 <222>(81)

<220>
 <221>UNSURE
 <222>(82)

<220>
 <221>UNSURE
 <222>(83)

<220>
 <221>UNSURE
 <222>(84)

<220>
 <221>UNSURE
 <222>(85)

<400> 5822
 Pro Arg Pro Pro Trp Gln Lys Arg Gln Trp Ser Gly Phe Xaa Asn Tyr
 1 5 10 15
 Phe Pro Tyr Arg Leu Thr Pro Tyr Met Ser Thr Glu Val Arg Leu Arg
 20 25 30
 Tyr Pro Ile Gln Ile Gln Lys Gly Gln Arg Met Ser Glu Pro Thr Lys
 35 40 45
 Arg Arg Gly Ala Leu Phe Ala Arg Gly Leu Ala Gly Ile Leu Ala Ser
 50 55 60
 Thr Cys Cys Leu Gly Ala Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 65 70 75 80
 Xaa Xaa Xaa Xaa Xaa Gln Arg Phe Leu Pro Leu Lys Pro Pro Phe Ile
 85 90 95
 Gly Leu Lys Met Phe Phe Gly Ser Gln Phe Leu Pro Ala Val Lys Glu
 100 105 110

<210> 5823
 <211> 221
 <212> PRT
 <213> Enterobacter cloacae

<400> 5823
 Lys Glu Ala Ser Glu Ala Glu Asn Val Val Lys Lys Lys Lys Lys
 1 5 10 15
 Lys Lys Lys Lys Lys Lys Ile Ile Ala Pro Pro Gly Ser Arg Ser Met
 20 25 30
 Gln Glu Cys Arg Pro Ala Arg Gly Arg Arg Ala His Arg Ala Val Leu
 35 40 45
 Leu Val Gln Thr Tyr Val Gly Pro Phe Glu Phe Gly Leu Asp Ser Val
 50 55 60
 Thr Leu Leu Pro Tyr Ser Cys Thr Glu Ser Ser Asp Met Glu Asn Asn
 65 70 75 80
 Leu Glu Asn Leu Thr Ile Gly Val Phe Ala Lys Ala Ala Gly Val Asn
 85 90 95
 Val Glu Thr Ile Arg Phe Tyr Gln Arg Lys Gly Leu Leu Arg Glu Pro
 100 105 110
 Asp Lys Pro Tyr Gly Ser Ile Arg Arg Tyr Gly Glu Ala Asp Val Val
 115 120 125
 Arg Val Lys Phe Val Lys Ser Ala Gln Arg Leu Gly Phe Ser Leu Asp
 130 135 140
 Glu Ile Ala Glu Leu Leu Arg Leu Asp Asp Gly Thr His Cys Glu Glu
 145 150 155 160
 Ala Ser Ser Leu Ala Glu His Lys Leu Lys Asp Val Arg Glu Lys Met
 165 170 175
 Ala Asp Leu Ala Arg Met Glu Thr Val Leu Ser Glu Leu Val Cys Ala
 180 185 190
 Cys His Ala Arg Lys Gly Asn Val Ser Cys Pro Leu Ile Ala Ser Leu

195 200 205
 Gln Gly Glu Ala Gly Leu Ala Arg Ser Ala Met Pro
 210 215 220

<210> 5824
 <211> 320
 <212> PRT
 <213> Enterobacter cloacae

<400> 5824
 Arg Lys Leu Ala Pro Ala Leu Ile Thr Gly Asn Thr Ile Val Ile Lys
 1 5 10 15
 Pro Ser Glu Phe Thr Pro Asn Asn Ala Ile Ala Phe Ala Lys Ile Val
 20 25 30
 Asp Glu Ile Gly Leu Pro Lys Gly Val Phe Asn Leu Val Leu Gly Arg
 35 40 45
 Gly Glu Thr Val Gly Gln Glu Leu Ala Gly Asn Pro Lys Val Ala Met
 50 55 60
 Val Ser Met Thr Gly Ser Val Gly Ala Gly Glu Lys Ile Met Ala Ala
 65 70 75 80
 Ala Ala Lys Asn Ile Thr Lys Val Gly Leu Glu Leu Gly Gly Lys Ala
 85 90 95
 Pro Ala Ile Val Met Gly Asp Ala Asp Leu Glu Leu Ala Val Lys Ala
 100 105 110
 Ile Val Asp Ser Arg Val Ile Asn Thr Gly Gln Val Cys Asn Cys Ala
 115 120 125
 Glu Arg Val Tyr Val Gln Lys Gly Ile Tyr Asp Arg Phe Val Asn Arg
 130 135 140
 Leu Gly Glu Ala Met Lys Ala Val Gln Phe Gly Asn Pro Ala Glu Arg
 145 150 155 160
 Thr Asp Ile Ala Met Gly Pro Leu Ile Asn Ala Ala Ala Leu Glu Arg
 165 170 175
 Val Glu Gln Lys Val Ala Arg Ala Val Gln Glu Gly Ala Lys Val Val
 180 185 190
 Leu Gly Gly Lys Ala Ala Glu Gly Lys Gly Tyr Phe Tyr Pro Pro Thr
 195 200 205
 Leu Leu Leu Asp Val Arg Gln Asp Met Ala Ile Met His Glu Glu Thr
 210 215 220
 Phe Gly Pro Val Leu Pro Val Val Ala Phe Asp Thr Leu Glu Glu Ala
 225 230 235 240
 Leu Asn Met Ala Asn Asp Ser Asp Tyr Gly Leu Thr Ser Ser Val Tyr
 245 250 255
 Thr Gln Asp Leu Asn Val Ala Met Lys Ala Ile Lys Gly Leu Lys Phe
 260 265 270
 Gly Glu Thr Tyr Ile Asn Arg Glu Asn Phe Glu Ala Met Gln Gly Phe
 275 280 285
 His Ala Gly Trp Arg Lys Ser Gly Ile Gly Gly Ala Asp Gly Lys His
 290 295 300
 Gly Leu Asn Glu Tyr Leu Gln Thr Gln Val Val Tyr Leu Gln Ser
 305 310 315 320

<210> 5825
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 5825
 Ser Gly Ala Pro Ser Met Arg Gly Gly Ser His Phe Gln Glu Arg Trp
 1 5 10 15
 Leu Cys Trp Arg Asp Asn Gly Tyr Leu Ser Gly Asn Asn Met Arg Thr
 20 25 30

Lys Tyr Thr Gly Leu Gln Ile Ser Ile His Trp Leu Val Phe Leu Leu
 35 40 45
 Val Ile Met Ala Tyr Cys Ala Met Glu Phe Met Gly Trp Phe Pro Arg
 50 55 60
 Ser Asp Arg Pro Leu Ile Asn Met Ile His Val Ser Cys Gly Ile Ser
 65 70 75 80
 Ile Leu Val Leu Met Val Ala Arg Leu Leu Ile Arg Leu Lys Phe Pro
 85 90 95
 Ala Pro Pro Ile Gln Pro Lys Pro Lys Ala Met Ile Thr Gly Leu Ser
 100 105 110
 His Leu Gly His Leu Val Ile Tyr Leu Leu Phe Ile Ala Leu Pro Leu
 115 120 125
 Ile Cys Met Val Met Met Tyr Asn Arg Gly Asn Asp Trp Phe Ala Phe
 130 135 140
 Trp Pro Asp
 145

<210> 5826

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 5826

Cys Ile Thr Gly Glu Met Thr Gly Leu Arg Phe Gly Leu Thr Asn Pro
 1 5 10 15
 His Ala Ala Glu Gly Asn Phe Asp Leu Val Asp Thr Leu Lys Thr Trp
 20 25 30
 His Val Asn Leu Ala Ile Leu Gly Asn Ser Leu Ile Gly Leu His Pro
 35 40 45
 Leu Ala Pro Leu Asn Pro Pro Tyr Phe Leu Glu Lys Thr Thr Pro Leu
 50 55 60
 Leu Pro His
 65

<210> 5827

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 5827

Ile His Asn Gly Leu His Gly Gln Leu Lys Ile Gly Ile Ala His His
 1 5 10 15
 Asp Gly Arg Gly Phe Thr Ala Gln Leu Gln Pro His Phe Gly Asp Val
 20 25 30
 Phe Arg Ser Arg Ser His Asp Leu Phe Thr Cys Pro Asp Ala Ala Gly
 35 40 45
 His Ala Asp His Arg His Phe Arg Ile Pro Gly Gln Leu Ser Asp
 50 55 60
 Gly Phe Thr Pro Ala Gln His Gln Val Lys Asp Ala Phe Arg Gln Ala
 65 70 75 80
 Asn Leu Ile Asp Asp Phe Gly Lys Arg Asn Gly Val Val Trp Gly Lys
 85 90 95
 Phe Ala Arg Phe Asp Asn Asp Gly Val Ala Gly Asp Gln Arg Gly Ser
 100 105 110
 Lys Leu Thr
 115

<210> 5828

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5828

Thr Arg Ser Ala Gln Leu His Thr Cys Pro Val Leu Met Thr Arg Glu
 1 5 10 15
 Ser Thr Met Ala Phe Thr Ala Ser Ser Arg Ser Ala Ser Pro Ile Thr
 20 25 30
 Met Ala Gly Ala Leu Pro Pro Ser Ser Ser Pro Thr Leu Val Met Phe
 35 40 45
 Phe Ala Ala Ala Met Ile Phe Ser Pro Ala Pro Thr Leu Pro Val
 50 55 60
 Met Leu Thr Ile Ala Thr Phe Gly Phe Pro Ala Ser Ser Cys Pro Thr
 65 70 75 80
 Val Ser Pro Arg Pro Ser Thr Arg Leu Lys Thr Pro Phe Gly Arg Pro
 85 90 95
 Ile Ser Ser Thr Ile Leu Ala Asn Ala Met Ala Leu Phe Gly Val Asn
 100 105 110
 Ser Leu Gly Leu Ile Thr Met Val Leu Pro Val Ile Ser Ala Gly Ala
 115 120 125
 Ser Leu
 130

<210> 5829

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 5829

Cys Arg Thr Asp Ser Pro Gly His Ser Pro Trp Phe Val Gln Cys Gly
 1 5 10 15
 Val Val Asn Lys Ser Val Ser Glu Ala Phe Asp Ser Lys Ala Phe Leu
 20 25 30
 Lys Thr Val Thr Ser Gln Pro Gly Val Tyr Arg Met Tyr Asp Ala Gly
 35 40 45
 Gly Thr Val Ile Tyr Val Gly Lys Ala Lys Asp Leu Lys Lys Arg Leu
 50 55 60
 Ser Ser Tyr Phe Arg Ser Asn Leu Ala Ser Arg Lys Thr Glu Ala Leu
 65 70 75 80
 Val Ala Leu Ile His Asn Ile Asp Val Thr Thr His Thr Glu Thr
 85 90 95
 Glu Ala Leu Leu Glu His Asn Tyr Ile Lys Leu Tyr Gln Pro Arg
 100 105 110
 Tyr Asn Val Leu Leu Arg Asp Asp Lys Ser Tyr Pro Phe Ile Phe Leu
 115 120 125
 Ser Gly Asp Thr His Pro Arg Leu Ala Met His Arg Gly Ala Lys His
 130 135 140
 Ala Lys Gly Glu Tyr Phe Gly Pro Phe Pro Asn Gly Tyr Ala Val Arg
 145 150 155 160
 Glu Thr Leu Ala Leu Leu Gln Lys Ile Phe Pro Val Arg Gln Cys Glu
 165 170 175
 Asn Ser Val Tyr Arg Asn Arg Ser Arg Pro Cys Leu Gln Tyr Gln Ile
 180 185 190
 Gly Arg Cys Leu Gly Pro Cys Val Glu Gly Leu Val Ser Glu Glu Glu
 195 200 205
 Tyr Ala Gln Gln Val Glu Tyr Val Arg Leu Phe Leu Ala Gly Lys Asp
 210 215 220
 Asp Gln Val Leu Thr Gln Leu Ile Thr Arg Met Glu Lys Ala Ser Ala
 225 230 235 240
 Ala Leu Gly Ile

245

<210> 5830

<211> 80

<212> PRT

<213> *Enterobacter cloacae*

<400> 5830

Gln Gln Thr Val Thr Val Ile Met Arg Phe Asn Ile Pro Thr Leu Leu
 1 5 10 15
 Thr Leu Phe Arg Val Val Leu Ile Pro Phe Phe Val Leu Ala Phe Tyr
 20 25 30
 Leu Pro Val Val Trp Ala Pro Phe Ala Cys Ala Leu Ile Phe Leu Ile
 35 40 45
 Ala Ala Val Thr Asp Trp Phe Asp Gly Tyr Leu Ala Arg Arg Trp Asn
 50 55 60
 Gln Ser Thr Arg Phe Gly Ala Phe Val Leu Pro His Arg Pro Gly
 65 70 75 80

<210> 5831

<211> 401

<212> PRT

<213> *Enterobacter cloacae*

<400> 5831

Leu Leu Val Trp Lys Lys Pro Ala Arg Arg Trp Glu Phe Glu Glu Ala
 1 5 10 15
 Ala Arg Ile Arg Asp Gln Ile Gln Ala Val Arg Arg Val Thr Glu Lys
 20 25 30
 Gln Phe Val Ser Asn Thr Gly Asp Asp Leu Asp Val Ile Gly Val Ala
 35 40 45
 Phe Asp Ala Gly Leu Ala Cys Val His Val Leu Phe Ile Arg Gln Gly
 50 55 60
 Lys Val Leu Gly Ser Arg Ser Tyr Phe Pro Lys Val Pro Gly Gly Thr
 65 70 75 80
 Glu Leu Gly Glu Val Val Glu Thr Phe Val Gly Gln Phe Tyr Leu Gln
 85 90 95
 Gly Ser Gln Met Arg Thr Leu Pro Ser Glu Ile Leu Leu Asp Phe Thr
 100 105 110
 Leu Asp Asp Lys Thr Leu Leu Ala Asp Ser Leu Ser Glu Leu Ala Gly
 115 120 125
 Arg Arg Val Asn Val Gln Thr Lys Pro Arg Gly Asp Arg Ala Arg Tyr
 130 135 140
 Leu Lys Leu Ala Arg Thr Asn Ala Ala Thr Ala Leu Thr Thr Lys Leu
 145 150 155 160
 Ser Gln Gln Ser Thr Val Ser Gln Arg Leu Thr Ala Leu Ala Thr Leu
 165 170 175
 Leu Lys Leu Pro Glu Val Lys Arg Met Glu Cys Phe Asp Ile Ser His
 180 185 190
 Thr Met Gly Glu Gln Thr Val Ala Ser Cys Val Val Phe Asp Ala Asn
 195 200 205
 Gly Pro Leu Arg Ala Glu Tyr Arg Arg Tyr Asn Ile Thr Gly Ile Thr
 210 215 220
 Pro Gly Asp Asp Tyr Ala Ala Met Asn Gln Val Leu Arg Arg Arg Tyr
 225 230 235 240
 Gly Lys Ala Ile Glu Glu Ser Lys Ile Pro Asp Val Ile Leu Ile Asp
 245 250 255
 Gly Gly Lys Gly Gln Leu Gly Gln Ala Lys Ala Val Phe Glu Ser Leu
 260 265 270
 Asp Val Glu Trp Asp Lys Asn His Pro Leu Leu Leu Gly Val Ala Lys
 275 280 285
 Gly Ala Asp Arg Lys Ala Gly Leu Glu Thr Leu Phe Phe Glu Pro Glu
 290 295 300
 Gly Glu Gly Phe Ser Leu Pro Pro Asp Ser Pro Ala Leu His Val Ile

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305          310          315          320
Gln His Ile Arg Asp Glu Ser His Asp His Ala Ile Ser Gly His Arg
          325          330          335
Lys Lys Arg Ala Lys Val Lys Asn Thr Ser Thr Leu Glu Thr Ile Glu
          340          345          350
Gly Val Gly Pro Lys Arg Arg Gln Met Leu Leu Lys Tyr Met Gly Gly
          355          360          365
Leu Gln Gly Leu Leu Asn Ala Ser Met Glu Glu Ile Ala Lys Val Pro
          370          375          380
Gly Ile Ser Gln Gly Leu Ala Glu Lys Ile Tyr Tyr Ser Leu Lys His
385          390          395          400

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<210> 5832

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 5832

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Gln Arg Leu Cys Tyr Gln Arg Glu Thr Val Arg Arg Arg Gln Arg Arg
1          5          10          15
Gly Gly Arg Pro Asp Ser Val Arg Leu Asn Gly Asp Cys Ala Pro Gly
          20          25          30
Trp Leu Trp Gln Gln Arg Asp Arg Thr Pro Val Leu Ile His Phe Cys
          35          40          45
Thr Lys Lys Gln Gly Met Arg Pro Val Phe Phe Arg Glu Asp Leu Met
50          55          60
Ser Thr Phe Ile Leu Leu Ala Ala Leu Ala Ser Gln Ile Thr Phe Ser
65          70          75          80
Thr Ser Gln Gln Ala Asn Met Thr Thr Ile Ile Pro Gln Val Thr Leu
          85          90          95
Ala Asp Ala Cys Glu Cys Gln Val Glu Val Leu Ser Val Arg Gln Gly
100          105          110
Gln Gly Gly Gln Ser Thr Ser Arg Gln Lys Asn Thr Leu Phe Ile Pro
115          120          125
Ala Asn Gln Pro Ile Asp Leu Thr Arg Ile Ser Leu Asn Ile Arg Ser
130          135          140
Gly Asp Ala Val Lys Ile Ile Val Thr Val Ser Asp Gly Lys Ser Leu
145          150          155          160
His Leu Ser Gln Gln Trp Asn Ala Pro Val Ser Ala Leu
          165          170

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<210> 5833

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 5833

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Thr Cys Phe Gly Arg His Thr Leu Phe Arg Asn Ala Ala Leu Thr Lys
1          5          10          15
Arg Ile Ala Leu Thr Glu Gln Glu Ile Leu Phe Tyr Ser Gln Val Gln
          20          25          30
Gly Asp Ser Met Lys Asn Lys Thr Leu Phe Met Met Phe Thr Leu Leu
          35          40          45
Gly Ala Pro Gly Phe Val Ile Ala Gly Asp Ser Asp Leu Ala Ser Ser
50          55          60
Glu Tyr Asn Phe Ala Ile Asn Glu Leu Ser Lys Ala Ser Tyr Asn Gln
65          70          75          80
Ala Ala Ile Ile Gly Gln Gln Gly Ser Gly Asn Asn Ser Asp Val Arg
          85          90          95

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Gln Asp Gly Ser Lys Leu Leu Ser Val Ile Ser Gln Glu Gly Gly Asn
 100 105 110
 Asn Arg Ala Asn Val Asp Gln Ser Gly Thr Tyr Asn Leu Ala Tyr Ile
 115 120 125
 Asp Gln Thr Gly Asn Gly Asn Asp Ala Ser Ile Lys Gln Gly Ala Phe
 130 135 140
 Gly Asn Thr Ala Met Ile Ile Gln Lys Gly Ser Gly Asn Arg Ala Asn
 145 150 155 160
 Ile Thr Gln Tyr Gly Thr Gln Lys Thr Ala Val Val Gln Arg Gln
 165 170 175
 Ser Gln Met Ala Ile Arg Val Ile Gln Arg
 180 185

<210> 5834

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 5834

Ser Ile Arg Trp Gly Phe Thr Met Lys Leu Phe Lys Val Ala Val Ile
 1 5 10 15
 Ala Ala Ile Val Val Ser Gly Ser Ala Phe Ala Gly Ala Val Pro Gln
 20 25 30
 Phe Gly Gly Gly His Gly Gly Gly Trp Gly Gly Gly Asn Asn Gly Pro
 35 40 45
 Asp Ser Thr Leu Ser Ile Tyr Gln Tyr Gly Gly Gly Asn Ser Ala Leu
 50 55 60
 Ala Leu Gln Thr Asp Ala Arg Asp Ser Glu Leu Thr Ile Thr Gln His
 65 70 75 80
 Gly Gly Gly Asn Gly Ala Asp Val Gly Gln Gly Ser Asp Asp Ser Ser
 85 90 95
 Ile Asp Leu Leu Gln Lys Gly Phe Gly Asn Ser Ala Thr Ile Asp Gln
 100 105 110
 Trp Asn Ser Lys Asp Ser Val Ile Asn Val Lys Gln Phe Gly Gly Gly
 115 120 125
 Asn Gly Ala Ala Val Asp Gln Thr Ala Ser Gly Ser Thr Val Thr Val
 130 135 140
 His Gln Val Gly Phe Gly Asn Asn Ala Thr Ala His Gln Tyr
 145 150 155

<210> 5835

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 5835

Lys Asn Ile Met Met Arg Ile Ala Leu Phe Leu Leu Thr Asn Leu Ala
 1 5 10 15
 Val Met Val Val Phe Gly Leu Val Leu Ser Leu Thr Gly Ile Gln Ser
 20 25 30
 Ser Ser Val Gln Gly Leu Leu Ile Met Ala Leu Leu Phe Gly Phe Gly
 35 40 45
 Gly Ser Phe Ile Ser Leu Leu Met Ser Lys Trp Met Ala Leu Lys Ser
 50 55 60
 Val Gly Gly Glu Val Ile Glu Gln Pro Arg Asn Asp Met Glu Gln Trp
 65 70 75 80
 Leu Met Ser Thr Val Ala Gln Gln Ser Lys Gln Ala Gly Ile Ala Met
 85 90 95
 Pro Gln Val Ala Ile Tyr His Ala Pro Asp Ile Asn Ala Phe Ala Thr
 100 105 110
 Gly Ala Arg Arg Asp Ala Ser Leu Val Ala Val Ser Thr Gly Leu Leu

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      115              120              125
Gln Asn Met Ser Arg Asp Glu Ala Glu Val Ile Ala His Glu Ile
130              135              140
Ser His Ile Ala Asn Gly Asp Met Val Thr Met Thr Leu Ile Gln Gly
145              150              155              160
Val Val Asn Thr Phe Val Ile Phe Ile Ser Arg Ile Leu Ala Gln Ile
      165              170              175
Ala Ala Gly Phe Met Gly Gly Asn Arg Asp Glu Gly Glu Glu Ser Asn
      180              185              190
Gly Asn Pro Leu Ile Tyr Phe Ala Val Ser Met Val Leu Glu Leu Val
195              200              205
Phe Gly Ile Leu Ala Ser Ile Ile Thr Met Trp Phe Ser Arg His Arg
210              215              220
Glu Phe His Ala Asp Ala Gly Ser Ala Lys Leu Val Gly Arg Glu Lys
225              230              235              240
Met Ile Ala Ala Leu Gln Arg Leu Lys Thr Ser Tyr Glu Pro Gln Glu
      245              250              255
Ala Asn Ser Met Met Ala Phe Cys Ile Asn Gly Lys Ser Lys Ser Leu
260              265              270
Ser Glu Leu Phe Met Ser His Pro Pro Leu Asp Lys Arg Ile Glu Ala
275              280              285
Leu Arg Ser Gly Glu Tyr Leu Lys
290              295

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<210> 5836

<211> 536

<212> PRT

<213> Enterobacter cloacae

<400> 5836

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Leu Asp Arg Ser Lys Ala Pro Trp Pro Lys Asp Glu Ala Glu Leu Asn
1      5      10      15
Val Leu Trp Asp Gly Lys Val Lys Tyr Asp Glu Leu Ser Leu Lys Leu
20      25      30
Thr Gly Lys Asp Glu Lys Glu Ile Arg Glu Thr Leu Asn Arg Arg Tyr
35      40      45
Lys Phe Asp Ile Arg Arg Leu Ala Gln Thr Asn Ser Glu Asp Val Phe
50      55      60
Ser Leu Ala Met Thr Ala Phe Ala His Glu Ile Asp Pro His Thr Asn
65      70      75      80
Tyr Leu Ser Pro Arg Asn Thr Glu Gln Phe Asn Thr Glu Met Ser Leu
85      90      95
Ser Leu Glu Gly Ile Gly Ala Val Leu Gln Met Asp Asp Asp Tyr Thr
100      105      110
Val Ile Asn Ser Met Val Ala Gly Gly Pro Ala Ser Lys Ser Lys Ala
115      120      125
Ile Ser Val Gly Asp Arg Ile Val Gly Val Gly Gln Thr Gly Lys Ser
130      135      140
Met Val Asp Val Ile Gly Trp Arg Leu Asp Asp Val Val Ala Leu Ile
145      150      155      160
Lys Gly Pro Lys Gly Ser Lys Val Arg Leu Glu Ile Leu Pro Ala Gly
165      170      175
Lys Gly Thr Lys Thr Arg Ile Val Thr Leu Thr Arg Glu Arg Ile Arg
180      185      190
Leu Glu Asp Arg Ala Val Lys Met Ser Val Lys Thr Val Gly Lys Glu
195      200      205
Lys Val Gly Val Leu Asp Ile Pro Gly Phe Tyr Val Gly Leu Thr Asp
210      215      220
Asp Val Lys Val Gln Leu Gln Lys Leu Glu Lys Gln Asn Val Ser Ser
225      230      235      240
Val Ile Ile Asp Leu Arg Ser Asn Gly Gly Gly Ala Leu Thr Glu Ala

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245 250 255
 Val Ser Leu Ser Gly Leu Phe Ile Pro Ser Gly Pro Val Val Gln Val
 260 265 270
 Arg Asp Asn Asn Gly Lys Val Arg Glu Asp Ala Asp Thr Asp Gly Val
 275 280 285
 Val Tyr Tyr Lys Gly Pro Leu Val Val Leu Val Asp Arg Phe Ser Ala
 290 295 300
 Ser Ala Ser Glu Ile Phe Ala Ala Ala Met Gln Asp Tyr Gly Arg Ala
 305 310 315 320
 Leu Ile Val Gly Glu Pro Thr Phe Gly Lys Gly Thr Val Gln Gln Tyr
 325 330 335
 Arg Ser Leu Asn Arg Ile Tyr Asp Gln Met Leu Arg Pro Glu Trp Pro
 340 345 350
 Ala Leu Gly Ser Val Gln Tyr Thr Ile Gln Lys Phe Tyr Arg Val Asn
 355 360 365
 Gly Gly Ser Thr Gln Arg Lys Gly Val Thr Pro Asp Ile Met Met Pro
 370 375 380
 Thr Gly Thr Glu Glu Thr Glu Thr Gly Glu Lys Phe Glu Asp Asn Ala
 385 390 395 400
 Leu Pro Trp Asp Ser Ile Asp Ala Ala Thr Phe Val Lys Ser Gly Asp
 405 410 415
 Met Lys Gln Phe Gly Pro Glu Leu Leu Lys Asn His Asn Asp Arg Ile
 420 425 430
 Gly Lys Asp Pro Glu Phe Gln Tyr Ile Met Lys Asp Ile Ala Arg Phe
 435 440 445
 Asn Ala Leu Lys Ala Lys Arg Asn Ile Val Ser Leu Asn Tyr Ala Gln
 450 455 460
 Arg Glu Lys Glu Asn Asn Glu Asp Asp Ala Thr Arg Leu Ala Arg Ile
 465 470 475 480
 Asn Asp Arg Phe Lys Arg Glu Gly Lys Pro Leu Leu Lys Lys Leu Asp
 485 490 495
 Asp Leu Pro Lys Asp Tyr Gln Glu Pro Asp Pro Tyr Leu Asp Glu Thr
 500 505 510
 Val His Ile Ala Leu Asp Leu Pro Lys Leu Glu Lys Asn Lys Pro Ala
 515 520 525
 Val Gln Pro Ala Pro Thr Lys
 530 535

<210> 5837

<211> 309

<212> FRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (309)

<400> 5837

Leu Thr Phe Ala Asp Ser Glu Phe Ser Thr Lys Arg Arg Gln Thr Arg
 1 5 10 15
 Lys Glu Ile Phe Leu Ser Arg Met Glu Gln Ile Leu Pro Trp Gln Asn
 20 25 30
 Met Thr Ala Val Ile Glu Pro Phe Tyr Pro Lys Ala Gly Asn Gly Arg
 35 40 45
 Arg Pro Tyr Pro Leu Glu Thr Met Leu Arg Ile His Cys Met Gln His
 50 55 60
 Trp Tyr Asn Leu Ser Asp Gly Ala Met Glu Asp Ala Leu Tyr Glu Ile
 65 70 75 80
 Ala Ser Met Arg Leu Phe Ala Arg Leu Ser Leu Asp Ser Ala Leu Pro
 85 90 95
 Asp Arg Thr Thr Ile Met Asn Phe Arg His Leu Leu Glu Gln His Gln

100 105 110
 Leu Ala Arg Gln Leu Phe Lys Thr Ile Asn Arg Trp Leu Ala Glu Ala
 115 120 125
 Gly Val Met Met Thr Gln Gly Thr Leu Val Asp Ala Thr Ile Ile Glu
 130 135 140
 Ala Pro Ser Ser Ser Lys Asn Lys Glu Gln Arg Asp Pro Glu Met
 145 150 155 160
 His Gln Thr Lys Lys Gly Asn Gln Trp His Phe Gly Met Lys Ala His
 165 170 175
 Ile Gly Val Asp Ala Lys Ser Gly Leu Thr His Ser Leu Val Thr Thr
 180 185 190
 Ala Ala Asn Glu His Asp Leu Asn Gln Leu Gly Asn Leu Leu His Gly
 195 200 205
 Glu Glu Gln Phe Val Ser Ala Asp Ala Gly Tyr Gln Gly Ala Pro Gln
 210 215 220
 Arg Glu Glu Leu Ala Glu Val Asp Val Asp Trp Leu Ile Ala Glu Arg
 225 230 235 240
 Pro Gly Lys Val Lys Thr Leu Lys Gln His Pro Arg Lys Asn Lys Thr
 245 250 255
 Ala Ile Asn Ile Glu Tyr Met Lys Ala Ser Ile Arg Ala Lys Val Glu
 260 265 270
 His Pro Phe Arg Ile Ile Lys Arg Gln Phe Gly Phe Val Lys Ala Arg
 275 280 285
 Tyr Lys Gly Leu Leu Gln His Asp Asn Leu Phe Thr Ser Arg Gly Gly
 290 295 300
 Ser Ala Ser Gly Xaa
 305

<210> 5838

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 5838

Ser Ala Ser Trp Arg Gly Ala Ile Cys Leu Ser Arg Cys Arg Leu Pro
 1 5 10 15
 Arg Ser Ala Thr Ala Arg Gly Ala Gly Arg Gly Gly Cys Gly Leu Ala
 20 25 30
 Asp Arg Arg Ala Ser Arg Gln Gly Lys Asn Leu Glu Ala Ala Ser Ala
 35 40 45
 Gln Glu Gln Asn Gly His Gln His Arg Ile His Glu Ser Gln His Pro
 50 55 60
 Cys Gln Gly Gly Ala Pro Val Ser His His Gln Ala Ala Val Arg Leu
 65 70 75 80
 Arg Glu Ser Gln Ile Gln Gly Ala Ala Ala Thr Arg
 85 90

<210> 5839

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 5839

Ala Val Gly Gln Ala Thr Leu Gly Ile Asp Thr Asn Val Gly Leu His
 1 5 10 15
 Ala Lys Val Pro Leu Ile Ala Phe Leu Gly Leu Met His Leu Arg Ile
 20 25 30
 Ala Leu Leu Leu Phe Val Leu Ala Arg Ala Gly Cys Leu Asn Asp Gly
 35 40 45
 Gly Ile His Gln Ser Ala Leu Gly His His Asp Ala Cys Phe Gly Gln
 50 55 60

Pro Ala Ile Asp Gly Leu Glu Gln Leu Thr Gly Gln Leu Met Leu Leu
 65 70 75 80
 Glu Gln Val Ala Glu Ile His Asp Gly Gly Ala Ile Arg Gln Gly Ala
 85 90 95
 Ile Gln Gly
 100

<210> 5840

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 5840

Ser Gly Lys Gln Ala His Gly Gly Asp Phe Val Gln Gly Ile Phe His
 1 5 10 15
 Gly Thr Val Ala Gln Val Val Pro Met Leu His Ala Val Asn Thr Gln
 20 25 30
 His Gly Leu Gln Arg Ile Gly Pro Ser Ala Ile Ala Arg Leu Gly Ile
 35 40 45
 Lys Arg Leu Asp Asp Ser Gly His Ile Leu Pro Trp Gln Asn Leu Leu
 50 55 60
 His Ala Gly Glu Glu Asn Leu Phe Ser Gly Leu Thr Ala Leu Ser Ala
 65 70 75 80
 Glu Phe Thr Ile Gly Glu Gly Glu Leu Met Ala His Asp Val Pro Leu
 85 90 95
 Gly Cys Ala Pro Asp Glu Tyr Asp Asp Leu Ile Ser Gly Thr Cys Ser
 100 105 110
 His Leu Pro
 115

<210> 5841

<211> 520

<212> PRT

<213> Enterobacter cloacae

<400> 5841

Val Leu Pro Ala Ala Cys Gly Glu Asn Asp Ser Arg Arg Ala Glu Met
 1 5 10 15
 Leu Gln Gln Ala Asn Ala Leu Asp Glu Arg Glu Ser Phe Ser Ser Leu
 20 25 30
 Arg Arg Leu Ala Trp Gln Asn Gly His Tyr Phe Thr Leu Arg Thr Thr
 35 40 45
 Phe Asn Gln Pro Gly His Leu Ala Thr Val Val Ala Phe Asp Leu Pro
 50 55 60
 Ile Asn Asp Leu Ile Pro Pro Asp Met Pro Leu Asp Ser Phe Arg Leu
 65 70 75 80
 Glu Pro Asp Asn Ser Thr Gln Asn Met Arg Ser Pro Ser Asp Lys Glu
 85 90 95
 Gly Ala Asp Ser Val Ala Ile Ser Phe Asn Gly Ser Lys Ile Glu Ile
 100 105 110
 Ala Ser Ser Leu Asn Ser Thr Gly Met Arg Leu Val Trp Gln Val Pro
 115 120 125
 Phe Gly Thr Leu Met Leu Asp Thr Leu Gln Asn Ile Leu Leu Pro Leu
 130 135 140
 Leu Leu Asn Ile Gly Leu Leu Ala Leu Ala Leu Phe Gly Tyr Ser Thr
 145 150 155 160
 Phe Arg Phe Gln Ser Gly Arg Gln Ser Asp Ser Thr Ser Val Ser Ala
 165 170 175
 Gly Thr Ser Asn Glu Leu Arg Ile Leu Arg Ala Leu Asn Glu Glu Ile
 180 185 190
 Ile Ser Val Leu Pro Leu Gly Val Leu Val His Asp Gln Glu Ala Asn

195					200					205				
Arg	Thr	Val	Met	Ser	Asn	Lys	Ile	Ala	Asp	His	Leu	Pro	His	Leu
210					215					220				
Asn	Leu	Gln	Asn	Ile	Thr	Ala	Met	Ala	Asp	Gln	His	Gln	Gly	Val
225					230					235				240
Gln	Ala	Thr	Ile	Asn	Asn	Glu	Leu	Tyr	Glu	Ile	Arg	Gln	Phe	Arg
				245					250				255	
Gln	Val	Ala	Ser	Arg	Thr	Gln	Ile	Phe	Ile	Ile	Arg	Asp	Gln	Arg
			260					265				270		
Glu	Val	Leu	Val	Asn	Lys	Lys	Leu	Lys	Gln	Ala	Gln	Arg	Leu	Tyr
	275						280					285		
Lys	Asn	Gln	His	Gly	Arg	Ala	Ala	Phe	Met	Gln	Asn	Ile	Gly	Asp
	290					295				300				
Phe	Lys	Gln	Pro	Leu	Lys	Ser	Leu	Ala	Thr	Gln	Ile	Ala	Asp	Leu
	305					310				315				320
Thr	Pro	Glu	Ser	Arg	Gln	Leu	Ser	Ser	Gln	Ala	Asp	Ser	Leu	Val
			325					330				335		Arg
Leu	Val	Asp	Glu	Ile	Gln	Leu	Ala	Asn	Met	Leu	Glu	Asn	Asp	Ile
	340						345					350		Trp
Lys	Gly	Thr	Pro	Thr	Leu	Phe	Ser	Ile	Gln	Asp	Leu	Ile	Asp	Glu
	355					360				365				Val
Val	Pro	Glu	Val	Leu	Pro	Val	Ile	Lys	Arg	Lys	Gly	Leu	Gln	Leu
	370					375				380				
Ile	Asn	Asn	His	Leu	Pro	Ala	Asn	Asp	Glu	Arg	His	Gly	Asp	Arg
	385					390				395				400
Ala	Leu	Arg	Arg	Ile	Leu	Met	Met	Leu	Ile	Gln	Tyr	Ala	Val	Thr
			405					410				415		Thr
Thr	Gln	Ile	Gly	Lys	Ile	Thr	Leu	Glu	Val	Ser	Thr	Asp	Glu	Ser
	420						425					430		Thr
Asp	Asp	Arg	Leu	Thr	Phe	Arg	Ile	Leu	Asp	Thr	Gly	Glu	Gly	Val
	435						440					445		Thr
Val	Ser	Glu	Ile	Asp	Asn	Leu	His	Phe	Pro	Phe	Leu	Asn	Asp	Thr
	450					455				460				Gln
Arg	Asp	His	Tyr	Gly	Lys	Ala	Asn	Ala	Leu	Thr	Phe	Trp	Leu	Cys
	465					470				475				480
Gln	Leu	Ala	Arg	Lys	Leu	Gly	Gly	His	Leu	Asn	Ile	Lys	Ala	Arg
			485				490					495		Glu
Ser	Leu	Gly	Thr	Arg	Tyr	Ser	Leu	His	Val	Lys	Met	Val	Ser	Pro
	500						505					510		
Arg	Gly	Trp	Ser	Ile	Arg	Pro								
	515					520								

<210> 5842

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 5842

Ser	Val	Arg	Ser	Asn	Ser	Met	Arg	His	Tyr	Glu	Ile	Val	Phe	Met	Val
1				5					10					15	
His	Pro	Asp	Gln	Ser	Glu	Gln	Val	Pro	Gly	Met	Ile	Glu	Arg	Tyr	Ser
			20					25					30		
Ala	Ala	Ile	Thr	Gly	Ala	Glu	Gly	Thr	Ile	His	Arg	Leu	Glu	Asp	Trp
		35				40						45			
Gly	Arg	Arg	Gln	Leu	Ala	Tyr	Pro	Ile	Asn	Lys	Leu	His	Lys	Ala	His
	50					55					60				
Tyr	Val	Leu	Met	Asn	Val	Glu	Ala	Pro	Gln	Glu	Val	Ile	Asp	Glu	Leu
	65				70						75			80	
Glu	Thr	Thr	Phe	Arg	Phe	Asn	Asp	Ala	Val	Ile	Arg	Ser	Met	Val	Met
			85					90					95		
Arg	Thr	Lys	His	Ala	Val	Thr	Glu	Ala	Ser	Pro	Met	Val	Lys	Ala	Lys

```

          100              105              110
Asp Glu Arg Arg Glu Arg Arg Asp Phe Ala Asn Glu Thr Ala Asp
      115              120              125
Asp Ser Asp Ala Gly Asp Ser Glu Glu
      130              135

```

<210> 5843
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 5843
Phe Leu Met Thr Asn Arg Leu Val Leu Ser Gly Thr Val Cys Arg Thr
1          5          10          15
Pro Leu Arg Lys Val Ser Pro Ser Gly Ile Pro His Cys Gln Phe Val
      20          25          30
Leu Glu His Arg Ser Val Gln Glu Glu Ala Gly Phe His Arg Gln Ala
      35          40          45
Trp Cys Gln Met Pro Val Ile Ile Ser Gly His Glu Asn Gln Ala Ile
      50          55          60
Thr His Ser Phe Asn Gly Arg
      65          70

```

<210> 5844
 <211> 133
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 5844
Thr Thr Ser Ser Glu Met Val Thr His Pro Asn Pro Gly Ser Asp Tyr
1          5          10          15
Thr Leu Ile Arg Asn Pro Glu Gln Arg Arg Arg Ala Phe Pro Arg Ile
      20          25          30
Thr Ala Arg Ser Arg Gly Ala His Ile Met Lys Arg Ile Ala Ile Ala
      35          40          45
Ile Leu Ala Ala Leu Leu Leu Ser Ala Asn Ala Met Ala Ala Ile Arg
      50          55          60
Ile Asp Ser Gln Gln Ala Arg Asn Met Asp Asp Val Gln Ser Leu Gly
      65          70          75          80
Val Ile Tyr Ile Asn His Asn Phe Ala Thr Glu Ser Glu Ala Asp Gln
      85          90          95
Ala Leu Asn Glu Glu Thr Asp Ala His Gly Ala Lys Tyr Tyr His Val
      100          105          110
Met Leu Thr Arg Glu Pro Gly Ser Asn Gly Asn Met His Ala Ser Ala
      115          120          125
Asp Ile Tyr Gln
      130

```

<210> 5845
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 5845
Asn Arg Ala Phe Ala Glu Cys Lys His Asp Gly Arg Phe Ala Asp Asp
1          5          10          15
Ala Gly Glu Lys Met Ile Pro Val Leu Ala Ile Ser Ala Trp Ser Gly
      20          25          30
Thr Gly Lys Thr Ser Leu Leu Lys Lys Leu Ile Pro Ala Leu Cys Ala
      35          40          45
Lys Gly Ile Arg Pro Gly Leu Ile Lys His Thr His His Asn Met Asp

```

50		55		60
Val Asp Lys Pro Gly Lys Asp Ser Tyr Glu Leu Arg Lys Ala Gly Ala				
65	70	75	80	
Ala Gln Thr Met Val Ala Ser Asn Gln Arg Trp Ala Leu Met Thr Glu				
	85	90	95	
Thr Pro Asp Glu Ala Pro Leu Asp Leu Ala Tyr Leu Val Ser Arg Met				
	100	105	110	
Asp His Ser Thr Leu Asp Leu Val Leu Val Glu Gly Phe Lys His Glu				
	115	120	125	
Ala Val Ala Lys Ile Leu Leu Phe Arg Ser Asp Ala Gly His Asp Val				
	130	135	140	
Ser Glu Leu Thr Leu Asp Glu His Val Ile Ala Val Ala Ser Asp Val				
	145	150	155	
Ala Leu Thr Leu Lys Val Pro Val Leu Asp Leu Asn Asn Val Glu Gly				
	165	170	175	
Ile Ala Ala Phe Ile Ser Ala Trp Cys Ala Val				
	180	185		

<210> 5846

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 5846

Phe Ile Arg Lys Gly Gln Gly Val Thr Pro Thr Ala Tyr Ala Thr Ile	
1	5
Leu His Glu Tyr Ile Ser Gln Gly Leu Glu Ser Ile Leu Gly Ala Leu	
	20
Asp Leu Thr Gly Ser Tyr Asp Lys Gln Arg Thr Ile Thr Ile Gly Thr	
	35
Ser Pro Ser Val Gly Val Leu Val Met Pro Ala Ile Tyr Gln Ala Val	
	50
Lys Gln His Ala Pro Gln Leu Leu Ile Arg Asn Val Pro Val Asn Asp	
65	70
Pro Glu Thr Gln Leu Ala Gln Phe Gln Thr Asp Leu Ile Ile Asp Ser	
	85
Asn Ser Phe Ala Ala Arg Ala Leu Gly His Asn Val Leu Tyr Thr Asp	
	100
Ser Leu Ala Leu Val Cys Arg Gln Asn His Pro Val Leu Ser Ala Pro	
	115
Leu Thr Pro Glu Asn Leu Arg His Tyr Glu His Ala Thr Phe Met Ser	
	130
Glu Gly Gln Gly Pro Asp Pro Leu Arg Gln Arg Ile Asp Glu Leu Phe	
	145
Pro Asp Arg Leu Ile Ser Phe Ser Ser Tyr Asn Met Phe Thr Leu Ala	
	165
Ala Leu Ile Gly Ser Ser Asp Leu Leu Cys Ile Met Pro Val Arg Leu	
	180
Phe Ala Leu Leu Gln Lys Cys Trp Pro Leu Glu Ser Ile Pro Leu Ser	
	195
Gln Leu Thr Thr Glu Ser Val Glu Ile Ser Leu His Tyr Asn Lys Leu	
	210
Ser Leu Arg Asp Pro Val Leu Glu Asn Val Ile Asn Val Ile Arg Gln	
225	230
Ala Phe	

<210> 5847

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 5847

```

Ile Glu Thr Leu Ser Phe Asp Ile Arg Asn Trp Asn Thr His Ala Met
1      5      10      15
Ser Lys Pro Ile Val Met Glu Arg Gly Val Lys Tyr Arg Asp Ala Asp
      20      25      30
Lys Met Ala Leu Ile Pro Val Lys Asn Val Ala Thr Glu Arg Glu Ala
      35      40      45
Leu Leu Arg Lys Pro Glu Trp Met Lys Ile Lys Leu Pro Ala Asp Ser
      50      55      60
Ser Arg Ile Gln Gly Ile Lys Ala Ala Met Arg Lys Asn Gly Leu His
      65      70      75      80
Ser Val Cys Glu Glu Ala Ser Cys Pro Asn Leu Ala Glu Cys Phe Asn
      85      90      95
His Gly Thr Ala Thr Phe Met Ile Leu Gly Ala Ile Cys Thr Arg Arg
      100      105      110
Cys Pro Phe Cys Asp Val Ala His Gly Arg Pro Val Ala Pro Asp Ala
      115      120      125
Asn Glu Pro Gln Lys Leu Ala Gln Thr Ile Ala Asp Met Ala Leu Arg
      130      135      140
Tyr Val Val Ile Thr Ser Val Asp Arg Asp Asp Leu Arg Asp Gly Gly
      145      150      155      160
Ala Gln His Phe Ala Asp Cys Ile Thr Ala Ile Arg Glu Lys Ser Pro
      165      170      175
Asn Ile Lys Ile Glu Thr Leu Val Pro Asp Phe Arg Gly Arg Met Asp
      180      185      190
Arg Ala Leu Asp Ile Leu Thr Ala Thr Pro Pro Asp Val Phe Asn His
      195      200      205
Asn Leu Glu Asn Val Pro Arg Ile Tyr Arg Gln Val Arg Pro Gly Ala
      210      215      220
Asp Tyr Asn Trp Ser Leu Lys Leu Glu Arg Phe Lys Glu Ala His
      225      230      235      240
Pro His Ile Pro Thr Lys Ser Gly Leu Met Val Gly Leu Gly Glu Thr
      245      250      255
Asn Ala Glu Ile Ile Glu Val Met Arg Asp Leu Arg Arg His Gly Val
      260      265      270
Thr Met Leu Thr Leu Gly Gln Tyr Leu Gln Pro Ser Arg His His Leu
      275      280      285
Pro Val Gln Arg Tyr Val Ser Pro Asp Glu Phe Asp Glu Met Lys Ala
      290      295      300
Glu Ala Met Ala Met Gly Phe Thr His Ala Ala Cys Gly Pro Phe Val
      305      310      315      320
Arg Ser Ser Tyr His Ala Asp Met Gln Ala Lys Gly Glu Glu Val Lys
      325      330      335

```

<210> 5848

<211> 187

<212> PRT

<213> *Enterobacter cloacae*

<400> 5848

```

Arg Cys Ile Cys Leu Val Lys Ile Phe Phe Ser Ala Ser Glu Lys Asn
1      5      10      15
Met Ser Asp Tyr Ile Pro Lys Lys Arg Gly Leu Leu Ile Leu Asp Trp
      20      25      30
Tyr Val Pro Leu Asn Ile Leu Leu Leu Ile Leu Val Met Cys Val Phe
      35      40      45
Phe Thr Arg Tyr Thr Phe Gly Tyr Gly Leu Leu Asn Gly Cys Leu Pro
      50      55      60

```

Ala Asp Phe Tyr Met Ile Asp His Ser Asp Lys Ser Ile Lys Thr Gly
 65 70 75 80
 Glu Leu Ile Pro Phe Asn Met Pro Lys Ser Val Arg Phe Ile Pro Gln
 85 90 95
 Asn Glu Arg Val Ile Lys Ile Val Ala Gly Val Gly Asp Lys Leu
 100 105 110
 Lys Val Thr Met Asp Gly Val Tyr Asn Gly Asp Lys Phe Phe Glu Thr
 115 120 125
 Asn Ala Arg Arg Ile Ser Lys Lys Tyr Asn Ile Pro Ser Ile Leu Ile
 130 135 140
 Glu Lys Glu Leu Ile Ile Pro Glu Gly Glu Val Phe Leu Ile Gly Gln
 145 150 155 160
 Thr Asp His Ser Trp Asp Ser Arg Phe Trp Gly Thr Val Lys Leu Asn
 165 170 175
 Ser Val Ile Gly Lys Thr Tyr Ala Ile Phe
 180 185

<210> 5849

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 5849

Cys Ala Val Leu Ser Asn Thr Asn Ala Ser Thr Glu Tyr Gln His Asp
 1 5 10 15
 Ala Asp Leu Ile Ala Gln Gln Ala Lys Gly Leu Gly Ala Gln Ala Lys
 20 25 30
 Gly Ala Gln Gln Pro Asp Gly Ala Leu Ser Leu Asp Ala Thr Leu Lys
 35 40 45
 Ser Pro Asp Val Gln Lys Tyr Ile Ala Gln Ala Glu Ala Leu Gln Lys
 50 55 60
 Asn Gln Asp Leu Ser Lys Gln Ile Asn Arg Gly Tyr Val Pro Gly Met
 65 70 75 80
 Asn Ala Asp Ser Val Gln Ala Val Ile Asp His Thr Gln Ala Ile Arg
 85 90 95
 Ala Gln Ser Asn Asn Ser Glu Ala Val Asn Asp Ile Ile Arg Arg Arg
 100 105 110
 Asp Glu Ile Gln Glu Asn Ala Ser Leu Asn Glu Ala Ala Leu Lys Ala
 115 120 125
 Val Glu Asn Lys Pro Glu Val Met Arg Gly Gln Ala Lys Asn Ile Glu
 130 135 140
 Lys Leu Phe Gly Ser Ser Gly Ile Thr Ala Ala Asp Phe Glu Arg Lys
 145 150 155 160
 Met Asp Ser Thr Arg Glu Glu Ala Leu Ser Thr Glu Asn Gly Ile Thr
 165 170 175
 Ile Phe Ala Ser Phe Ser Leu Pro Asp Tyr Val Leu Glu Asp Leu Leu
 180 185 190
 Arg Thr Ala Ser Glu His Lys Ala Arg Val Val Phe Asn Gly Leu Lys
 195 200 205
 Lys Gly Thr Thr Arg Leu Pro Glu Thr Gln Ala Ala Ile Asn Gln Met
 210 215 220
 Ile Val Lys Gly Lys Phe Glu Ser Pro Leu Ile Thr Ile Asp Pro Asp
 225 230 235 240
 Ser Phe Ser Gln Tyr Gln Val Thr Gln Val Pro Thr Ile Ile Ser Arg
 245 250 255
 Glu Gln Ala Arg Phe Ala Lys Met Gly Lys Leu Leu Gln Arg
 260 265 270

<210> 5850

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 5850

```

Met Asn Leu Arg Thr Lys Gly Phe Leu Leu Ile Ile Lys Asp Glu Gly
1      5      10      15
Asp Thr Lys Glu Phe Thr Ile Glu Asn Pro Gly Lys Tyr Thr Leu Met
      20      25      30
Val Val Phe Lys Asp Asn Arg Asn Asn Glu Gln Arg Ile Glu Asn Thr
      35      40      45
Phe Val Val Asp Glu Gln Thr Pro Met Asn Val Glu Met Thr Pro Lys
      50      55      60
Phe Ser Asn Lys Tyr Met Arg Ala Pro Leu Asp Val Thr Leu Arg Ser
      65      70      75      80
Asn Ile Lys Ile Ser His Ser Ala Asp Ser Ile Asp Thr Val Thr Tyr
      85      90      95
Lys Val Asn Gly Glu Val Ile Pro Ser Gly Lys Asn Tyr Trp Ala Gln
      100      105      110
Leu Ile Ser Gly Leu Lys Glu Lys Lys Tyr Glu Ile Thr Ile Asp Val
      115      120      125
Val Ser Lys Leu Gly Gln Arg Gly Ser Ala Ser Val Glu Phe Asp Val
      130      135      140
Val Lys Asn Ala Val Pro Asn Cys Thr Leu Ser Tyr Thr Glu Thr Asn
      145      150      155      160
Leu Ser Trp Ser Phe Thr Asn Lys Cys Asp Asp Thr Asp Gly Lys Met
      165      170      175
Val Arg Tyr Glu Trp Phe Ile Asn Gly Glu Leu Arg Asn Val Phe Gly
      180      185      190
Ser Thr Ala Thr Leu Ser Lys Asn Leu Asn Arg Gly Lys Gln Asp Ile
      195      200      205
Lys Val Ile Ala Tyr Asp Asp Ser Gly Asp Phe Ala Thr Gln His Val
      210      215      220
Thr Val Phe Gly Pro Ala Glu Glu Ala Ser Lys Ser Glu Asn Thr Val
      225      230      235      240
Ser Ile Pro Ser Ser Glu
      245

```

<210> 5851

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 5851

```

Val Leu Asp Ala Gln Ile Ser Val Cys Ala Cys Ser Ser Leu Ile Arg
1      5      10      15
Cys Ile Asn Thr Thr Pro His Met Arg Asp Phe Phe Val Pro Asp Ser
      20      25      30
Arg Val Ser Cys Gly Cys Arg Val Ala Val Ala His Tyr Pro Ala Tyr
      35      40      45
Arg Ile Gln Tyr Ala Arg Ile Glu Pro Trp Ser Lys Leu Phe Ile Arg
      50      55      60
Pro Arg Met Gly Glu Pro Trp Gly Ile Val Leu Asp Ser Ala Lys
      65      70      75      80
Glu Ser Gly Ser Asp Gly Gly Gly Gly Arg Ile Thr Gln Arg Phe Ala
      85      90      95
Leu Arg Pro Ser Gly Arg Cys Met Arg Gln Arg Phe Leu Asp Thr Leu
      100      105      110
Glu Ser Asn Leu Gly Arg Ser Phe Ser Ser Phe Pro Ala Leu Lys Asn
      115      120      125
His Gly Ala Leu Cys Phe Glu Arg Val Leu
      130      135

```

<210> 5852

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 5852

```

Phe Ala Val Leu Ile Gln Pro Arg Ile Cys Gly Val Phe Leu Phe Pro
1          5          10          15
Ile Pro Gly Tyr Arg Ala Asp Ala Gly Trp Arg Leu Arg Ile Thr Arg
20          25          30
His Thr Glu Phe Asn Met Leu Glu Ser Asn Leu Gly Arg Ser Phe Leu
35          40          45
Ser Val Pro Ala Trp Glu Asn His Gly Ala Leu Cys Phe Trp Ile Val
50          55          60
Leu Lys Asn Pro Glu Val Met Val Val Gly Glu Gly Leu Leu Ser Ala
65          70          75          80
Ser Arg Phe Ala Leu Arg Val Val Ala Cys Gly Asn Ala Phe Ser Ile
85          90          95
Arg Ser Asn Arg Thr Leu Val Glu Ala Ser His His Ser Pro His
100         105         110

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<210> 5853

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 5853

```

Phe Glu Glu Ala Glu Asp His Ala Gly Asn Ser Thr Glu Ala Lys Thr
1          5          10          15
Ile Arg Asp Asp Arg Lys Tyr Thr Lys Arg Glu Arg Glu Leu Pro Ala
20          25          30
Asn Arg Leu Asn Arg Lys Arg Ala Arg Ser Gln Ala Lys Lys Asp Gly
35          40          45
Asn Ala Lys Glu Gln Gln Gln Asp Gln Ile Glu Thr Lys Ile Glu Gln
50          55          60
Gln Ala Glu Glu Ile Glu Asn Ile Asn Ser Asp Gln Glu Lys Gln Ser
65          70          75          80
Arg Glu Ile Lys Glu Gly His Gln Gly Glu Glu Asn Asp Glu Ala Lys
85          90          95
Thr Thr Gln Ala Glu Gln Glu Glu Ile Gly Arg Lys Glu Arg Lys Arg
100         105         110
Gln Lys Glu Thr Gln Arg Ala Lys Asn Ile Gln Glu Arg Lys Ala Arg
115         120         125
Gln Pro Gly Gly Gln Gln Glu Gln Ala Arg Glu Ile Lys Arg Glu Ile
130         135         140
Glu Ser Gln Gln Pro His Asn Glu Ser Leu Phe Gln Lys Val Asn Tyr
145         150         155         160
Leu Ser Tyr Ile Asn Arg Arg Gly Arg Arg Thr Arg Ala
165         170

```

<210> 5854

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 5854

```

Pro Phe Cys Arg Asp Thr Val Met Gln Ala Glu Ile Leu Leu Thr Leu
1          5          10          15
Arg Leu Gln Gln Lys Leu Phe Ala Asp Pro Arg Arg Ile Ala Leu Leu
20          25          30
Lys Gln Ile Glu Gln Thr Gly Ser Ile Ser Gln Gly Ala Lys Asn Ala

```

```

      35              40              45
Gly Ile Ser Tyr Lys Ser Ala Trp Asp Ala Ile Asn Asp Met Asn Thr
50              55              60
Leu Ser Glu His Thr Leu Val Glu Arg Ala Thr Gly Gly Lys Gly Gly
65              70              75              80
Gly Gly Ala Val Leu Thr Arg Tyr Gly Gln Arg Leu Ile Gln Leu Tyr
85              90              95
Asp Leu Leu Ala Gln Ile Gln Gln Lys Ala Phe Asp Val Leu Ser Asp
100              105              110
Asp Asp Asn Leu Pro Leu Asp Ser Leu Leu Gly Ala Ile Ser Arg Phe
115              120              125
Ser Leu Gln Thr Ser Ala Arg Asn Gln Trp Phe Gly Thr Val Thr Gly
130              135              140
Arg Asp His Ser Gln Val Gln Glu His Ile Glu Ile Leu Leu Ala Asp
145              150              155              160
Gly Thr Thr Arg Leu Lys Ala Ala Ile Thr Ala Gln Ser Gly Gln Arg
165              170              175
Leu Gly Leu Asn Glu Gly Gln Glu Val Leu Val Leu Lys Ala Pro
180              185              190
Trp Ile Ser Ile Thr Leu Asn Pro Glu Gln Ala Ala Glu Ala Asp Asn
195              200              205
Gln Leu Arg Gly Arg Ile Ser His Ile Glu Arg Gly Ala Glu Gln Cys
210              215              220
Glu Val Leu Met Thr Leu Pro Asp Gly Gln Leu Leu Cys Ala Thr Val
225              230              235              240
Pro Val Asn Asp Ala Thr Glu Leu Asp Glu Gly Ala Val Val Thr Ala
245              250              255
Tyr Phe Asn Ala Asp Arg Val Ile Ile Ala Thr Leu Cys
260              265              270

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<210> 5855

<211> 388

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (329)

<400> 5855

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His Met Ser Ser Leu His Ile Ser Gln Gly Thr Phe Arg Leu Ser Asp
1              5              10              15
Thr Arg Thr Leu Ser Leu Pro Glu Leu Thr Leu Arg Ala Gly Glu Ser
20              25              30
Trp Ala Phe Val Gly Ser Asn Gly Ser Gly Lys Ser Ala Leu Ala Arg
35              40              45
Ala Leu Ala Gly Glu Ile Thr Gln Leu Lys Gly Glu Arg Arg Cys Thr
50              55              60
Phe Thr Arg Leu Thr Arg Leu Ser Phe Glu Gln Leu Gln Lys Leu Val
65              70              75              80
Ser Asp Glu Trp Gln Arg Asn Asn Thr Asp Leu Leu Ser Pro Gly Glu
85              90              95
Glu Asp Thr Gly Arg Thr Thr Ala Glu Ile Ile Gln Asp Glu Ile Lys
100              105              110
Asp Pro Ala Arg Cys Gln Gln Leu Ala Glu Gln Phe Gly Ile Thr Ala
115              120              125
Leu Leu Asn Arg Arg Phe Lys Tyr Leu Ser Thr Gly Glu Thr Arg Lys
130              135              140
Thr Leu Leu Cys Gln Ala Leu Met Ser Glu Pro Glu Leu Leu Ile Leu
145              150              155              160
Asp Glu Pro Phe Asp Gly Leu Asp Val Gln Ser Arg Ala Gln Leu Ala

```


195	200	205
Pro Asn Met Leu Pro Leu	Pro Ala Arg Thr Val	Glu Ser Leu Ile Gly
210	215	220
Arg Leu Thr Gly Lys Thr Tyr Gln Arg Leu Tyr Gly Ala Phe Glu Gly		
225	230	235
Gln Asn Ile Pro Val Asn Ala Asp Glu Ile Val Gln Arg Ser Gly Gln		
	245	250
Lys Tyr Ile Ala Cys Leu Arg		
260		

<210> 5857

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 5857

Ala Pro Pro Ile Arg Gly Gly Ser Arg Leu Phe Gln Ala Arg Val Lys	
1 5 10 15	
Leu Leu Ile Pro Thr Pro Phe Gly Ala Asp Thr Val Leu Ala Asp Thr	
20 25 30	
Gln Phe Gly Ser Leu Thr Arg Pro Val Gln Asp Glu Ala Met Ala Asn	
35 40 45	
Trp Gln Glu Glu Gly Trp Lys Glu Ala Pro Leu Pro Val Trp Asn Leu	
50 55 60	
Leu Asn Tyr Ala Val Leu Gln Glu Arg Arg Asn Gly Met Ala Leu Phe	
65 70 75 80	
Thr Glu Gly Leu Arg Glu Phe Glu Val Thr Gly Glu Arg Gln Lys Thr	
85 90 95	
Phe Ala Leu Thr Leu Leu Arg Gly Val Gly Val Leu Gly Lys Glu Asp	
100 105 110	
Leu Leu Leu Arg Pro Gly Arg Pro Ser Gly Ile Lys Met Pro Val Pro	
115 120 125	
Asp Ser Gln Met Arg Gly Gln Leu Thr Cys Arg Phe Ser Leu Phe Ser	
130 135 140	
Phe Asn Gly Thr Pro Val Ser Ala Gly Val Ala Gln Gln Ala Lys Ser	
145 150 155 160	
Trp Leu Thr Pro Val His Cys Tyr Asn Lys Ile Pro Trp Asp Ala Met	
165 170 175	
Lys Leu Asn Arg Ala Ser Phe Thr Thr Pro Cys Ser Tyr Ser Leu Leu	
180 185 190	
Thr Leu Ala Pro Asn Gly Cys Val Leu Ser Ala Leu Lys Lys Ala Glu	
195 200 205	
Asp Arg Asp Glu Met Ile Leu Arg Leu Tyr Asn Pro Ser Glu Thr Arg	
210 215 220	
Ser Cys Asp Val Ala Leu Ser Val Asn Arg Glu Ile Gln Ala Cys Cys	
225 230 235 240	
Glu Thr Asp Met Asn Glu Val Tyr Lys Ala Gln Gly Glu Glu Gly Ser	
245 250 255	
Ala Ile Thr Gly Ser Phe Arg Pro Gly Gln Ser Arg Thr Phe Ser Ile	
260 265 270	
Lys Ile Glu Arg	
275	

<210> 5858

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 5858

Gly Leu Ile Leu Ala Gly Phe Ile Asn Ser Pro Met Val Gly Gln Gly
1 5 10 15

Leu Phe Leu Phe Asn Ile Pro Ile Gly Gly His Val Ser Cys Gly Gly
 20 25 30
 Phe Leu Lys Val Pro Ser Tyr Arg Pro Lys Pro Glu Asp Val Glu Phe
 35 40 45
 Asp Ala Arg Arg Asp Leu Phe Phe Cys His His Trp Ala Phe Pro Leu
 50 55 60
 Gln Ser Gly
 65

<210> 5859

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 5859

Thr Arg Ser Ile Pro Leu Thr Phe Thr Gly Ser Leu Met Arg Pro Ile
 1 5 10 15
 Val Val Val Leu Ile Leu Ala Ala Ala Leu Thr Pro Ile Leu Trp
 20 25 30
 Arg Val Glu Arg Ala Ala Pro Asp Pro Val Val Gln Val Asp Leu Leu
 35 40 45
 Ala Ser Arg Glu Val Arg Ile Ala Thr Ala Ile Ser Ala Gly Asn Gly
 50 55 60
 Leu Ser Gln Ala Ala Ile Val Phe Ile Pro Ser Tyr Ala Phe Leu Ala
 65 70 75 80
 Leu Ser Leu Ser Glu Ser Met Ala Ser Phe Ser Leu Leu Pro Phe Val
 85 90 95
 Thr Thr Met Ala Leu Ser Ala Pro Ile Val Gly Val Leu Leu Asp Arg
 100 105 110
 Val Gly Ser Arg Val Val Met Ile Ser Gly Ser Leu Ile Leu Met Val
 115 120 125
 Gly Cys Thr Ile Met Ala Leu Leu Ser Ser Thr Thr Pro Leu Phe Ile
 130 135 140
 Leu Ala Glu Val Leu Met Ala Leu Gly Leu Ile Thr Val Ile Gly Ala
 145 150 155 160
 Pro Leu Arg Tyr Ile Met Leu Ser Glu Thr Pro Pro Glu His Arg Ala
 165 170 175
 Ser Gly Gln Ala Leu Ile Asn Ile Leu Ser Ser Ala Gly Gln Leu Val
 180 185 190
 Gly Gly Ala Leu Ile Gly Gly Ile Val Ala Ser Met Gly Ser Gly Val
 195 200 205
 Met Gly Tyr Arg Phe Ser Phe Leu Phe Leu Val Ala Val Ala Phe Thr
 210 215 220
 Leu Phe Leu Leu Ser Thr Gly Leu Lys Gly Arg Asp Val Glu Leu Glu
 225 230 235 240
 Thr Met Lys Arg Asp Ser Cys
 245

<210> 5860

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 5860

Phe Met Phe Leu Ser Val Ile Thr Val Ala Phe Arg Asn Tyr Glu Gly
 1 5 10 15
 Val Val Lys Thr Trp Arg Ser Leu Arg Asn Leu Ala Arg Asp Pro Ser
 20 25 30
 Leu Thr Phe Glu Trp Ile Val Val Asp Gly Gly Ser Asn Asp Gly Thr
 35 40 45
 Ala Glu Phe Leu Glu Lys Leu Asn Gly Glu Phe Asn Leu Arg Tyr Ile

```

      50      55      60
Ser Glu Lys Asp Lys Gly Ile Tyr Asp Ala Met Asn Lys Gly Ile Asn
65      70      75      80
Met Ala Gln Gly Arg Tyr Ala Ile Phe Leu Asn Ser Gly Asp Val Phe
      85      90      95
His Glu Asn Val Ala Leu Phe Ala Arg Gln Leu Ala Arg Gln Lys Glu
      100      105      110
Asp Ala Met Phe Ile Gly Asp Ala Leu Leu Asp Phe Gly Glu Gly Lys
      115      120      125
Lys Val Leu Arg Gly Ala Lys Pro Gly Trp Tyr Ile Tyr His Ser Leu
      130      135      140
Pro Ala Ser His Gln Ala Ile Phe Phe Pro Met Ser Gly Leu Lys Lys
      145      150      155      160
Gln Pro Tyr Asp Leu Arg Tyr Lys Val Ser Ser Asp Tyr Ala Leu Ala
      165      170      175      180
Ala Ser Leu Tyr Lys Ser Gly Tyr Pro Phe Arg Arg Ile Lys Gly Leu
      185      190      195
Val Ser Glu Phe Ser Met Gly Gly Val Ser Thr Ser Asn Asn Leu Glu
      200      205      210
Leu Cys Gln Asp Ala Lys Asn Val Gln Arg Lys Ile Leu Arg Val Pro
      215      220      225
Gly Phe Trp Ala Glu Leu Ser Tyr Phe Leu Arg Leu Lys Thr Thr Gly
      230      235      240
Lys Ala Lys Ala Leu Tyr Asn Lys Ala
      245      250

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<210> 5861

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 5861

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Gly Asn Val Met Gln Glu Leu Asn Gly Phe Ser Val Pro Lys Gly Phe
1      5      10
Arg Gly Gly Ser Gly Ile Lys Val Gln Leu Trp Trp Ala Val Gln Ala
      20      25      30
Thr Leu Phe Ala Trp Ser Pro Gln Ile Leu Tyr Arg Trp Arg Ala Phe
      35      40      45
Leu Leu Arg Leu Phe Gly Ala Lys Ile Gly Lys Asn Val Val Ile Arg
      50      55      60
Pro Ser Val Lys Ile Thr Tyr Pro Trp Lys Leu Thr Leu Gly Asp Tyr
      65      70      75      80
Ala Trp Val Gly Asp Asp Ala Val Leu Tyr Thr Leu Gly Glu Ile Thr
      85      90      95
Ile Gly Ala Asn Ser Val Val Ser Gln Lys Cys Tyr Leu Cys Thr Gly
      100      105      110
Ser His Asp Phe Met
      115

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<210> 5862

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 5862

```

Ile Ile Tyr Phe Ser Trp Phe Ala Val Leu Leu Thr Leu Trp Tyr Leu
1      5      10      15
Phe Lys Val Phe Lys Met Met Ile Asn Ala Phe Gly Asp Asn Gln Asn
      20      25      30
Phe Arg Val Gln Leu Tyr Leu Phe Thr Pro Val Ser Leu Phe Phe Thr
      35      40      45

```

Gly Ser Ile Phe Ser Pro Glu Tyr Ala Phe Leu Ile Val Cys Pro Phe
 50 55 60
 Ile Leu Arg Lys Ala Leu Asn Ile Thr Ser Val
 65 70 75

<210> 5863

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 5863

Thr Ala Ala Asp Leu Leu Gln Leu Ser Thr Ser Gln Arg Gln Gly
 1 5 10 15
 Arg Tyr Lys Thr Thr Leu Asn Arg Gly Val Met Ala Pro Lys Leu Leu
 20 25 30
 Ile Ile Asp Glu Ile Gly Tyr Leu Pro Phe Ser Gln Glu Glu Ala Lys
 35 40 45
 Leu Phe Phe Gln Val Ile Ala Lys Cys Tyr Glu Lys Ser Ala Met Ile
 50 55 60
 Leu Thr Ser Asn Leu Pro Phe Gly Gln Trp Asp Gln Thr Phe Ala Gly
 65 70 75 80
 Asp Ala Ala Leu Thr Ser Ala Met Leu Asp Arg Ile Leu His His Ser
 85 90 95
 His Val Val Gln Ile Lys Gly Glu Ser Tyr Arg Leu Lys Gln Lys Arg
 100 105 110
 Lys Ala Gly Val Ile Ala Glu Ala Asn Pro Glu
 115 120

<210> 5864

<211> 709

<212> PRT

<213> Enterobacter cloacae

<400> 5864

Thr Arg Asn Gln Met Ala Arg Thr Thr Pro Ile Ala Arg Tyr Arg Asn
 1 5 10 15
 Ile Gly Ile Ser Ala His Ile Asp Ala Gly Lys Thr Thr Thr Glu
 20 25 30
 Arg Ile Leu Phe Tyr Thr Gly Val Asn His Lys Ile Gly Glu Val His
 35 40 45
 Asp Gly Ala Ala Thr Met Asp Trp Met Glu Gln Glu Gln Glu Arg Gly
 50 55 60
 Ile Thr Ile Thr Ser Ala Ala Thr Thr Ala Phe Trp Ser Gly Met Ala
 65 70 75 80
 Lys Gln Tyr Glu Pro His Arg Val Asn Ile Ile Asp Thr Pro Gly His
 85 90 95
 Val Asp Phe Thr Ile Glu Val Glu Arg Ser Met Arg Val Leu Asp Gly
 100 105 110
 Ala Val Met Val Tyr Cys Ala Val Gly Gly Val Gln Pro Gln Ser Glu
 115 120 125
 Thr Val Trp Arg Gln Ala Asn Lys Tyr Lys Val Pro Arg Ile Ala Phe
 130 135 140
 Val Asn Lys Met Asp Arg Met Gly Ala Asn Phe Leu Lys Val Val Gly
 145 150 155 160
 Gln Ile Lys Thr Arg Leu Gly Ala Asn Pro Val Pro Leu Gln Leu Ala
 165 170 175
 Ile Gly Ala Glu Glu Gly Phe Thr Gly Val Ile Asp Leu Val Lys Met
 180 185 190
 Lys Ala Ile Asn Trp Asn Glu Thr Asp Ala Gly Val Thr Phe Glu Tyr
 195 200 205
 Glu Asp Ile Pro Ala Glu Met Gln Asp Leu Ala Asp Glu Trp His Gln

210	215	220
Asn Leu Ile Glu Ser	Ala Ala Glu Ala Ser	Glu Glu Leu Met Glu Lys
225	230	235
Tyr Leu Gly Gly	Glu Glu Leu Ser Glu Gln	Glu Ile Lys Ser Ala Leu
245	250	255
Arg Gln Arg Val Leu	Asn Asn Glu Ile Ile	Leu Val Thr Cys Gly Ser
260	265	270
Ala Phe Lys Asn Lys	Gly Val Gln Ala Met	Leu Asp Ala Val Val Asp
275	280	285
Tyr Leu Pro Ser Pro	Ile Asp Val Pro Ala Ile	Asn Gly Ile Leu Asp
290	295	300
Asp Gly Lys Asp Thr	Pro Ala Glu Arg His	Ala Ser Asp Glu Glu Pro
305	310	315
Phe Ser Ala Leu Ala	Phe Lys Ile Ala Thr	Asp Pro Phe Val Gly Asn
325	330	335
Leu Thr Phe Phe Arg	Val Tyr Ser Gly Val	Val Asn Ser Gly Asp Thr
340	345	350
Ile Leu Asn Ser Val	Lys Ala Ala Arg Glu	Arg Phe Gly Arg Ile Val
355	360	365
Gln Met His Ala Asn	Lys Arg Glu Glu Ile	Lys Glu Val Arg Ala Gly
370	375	380
Asp Ile Ala Ala Ala	Ile Gly Leu Lys Asp	Val Thr Thr Gly Asp Thr
385	390	395
Leu Cys Asp Pro Asp	His Pro Ile Ile Leu	Glu Arg Met Glu Phe Pro
405	410	415
Glu Pro Val Ile Ser	Ile Ala Val Glu Pro	Lys Thr Lys Ala Asp Gln
420	425	430
Glu Lys Met Gly Leu	Ala Leu Gly Arg Leu	Ala Lys Glu Asp Pro Ser
435	440	445
Phe Arg Val Trp Thr	Asp Glu Glu Ser Asn	Gln Thr Ile Ile Ala Gly
450	455	460
Met Gly Glu Leu His	Leu Asp Ile Ile Val	Asp Arg Met Lys Arg Glu
465	470	475
Phe Asn Val Glu Ala	Asn Val Gly Lys Pro	Gln Val Ala Tyr Arg Glu
485	490	495
Ala Ile Arg Ala Lys	Val Thr Asp Val Glu	Lys His Ala Lys Gln
500	505	510
Ser Gly Gly Arg Gly	Gln Tyr Gly His Val	Val Ile Asp Met Tyr Pro
515	520	525
Leu Glu Pro Gly Ser	Asn Pro Lys Gly Tyr	Glu Phe Ile Asn Asp Ile
530	535	540
Lys Gly Gly Val Ile	Pro Gly Glu Tyr Ile	Pro Ala Val Asp Lys Gly
545	550	555
Ile Gln Glu Gln Leu	Lys Ala Gly Pro Leu	Ala Gly Tyr Pro Val Val
565	570	575
Asp Met Gly Val Arg	Leu His Phe Gly Ser	Tyr His Asp Val Asp Ser
580	585	590
Ser Glu Leu Ala Phe	Lys Leu Ala Ala Ser	Ile Ala Phe Lys Glu Gly
595	600	605
Phe Lys Lys Ala Lys	Pro Val Leu Leu Glu	Pro Ile Met Lys Val Glu
610	615	620
Val Glu Thr Pro Glu	Glu Asn Thr Gly Asp	Val Ile Gly Asp Leu Ser
625	630	635
Arg Arg Arg Gly Met	Leu Arg Gly Gln Glu	Ser Glu Val Thr Gly Val
645	650	655
Lys Ile His Ala Glu	Val Pro Leu Ser Glu	Met Phe Gly Tyr Ala Thr
660	665	670
Gln Leu Arg Ser Leu	Thr Lys Gly Arg Ala	Ser Tyr Thr Met Glu Phe
675	680	685
Leu Lys Tyr Asp Asp	Ala Pro Asn Asn Val	Ala Gln Ala Val Ile Glu
690	695	700

Ala Arg Gly Lys
705

<210> 5865
<211> 126
<212> PRT
<213> Enterobacter cloacae

<400> 5865
Ser Thr Gly Leu Lys Pro Lys Ser Arg Ala Leu Ser Glu Gly Glu Ser
1 5 10 15
Thr Ile Val Arg Asn Ile Ala Val Ser Lys Glu Lys Phe Glu Arg Thr
20 25 30
Lys Pro His Val Asn Val Gly Thr Ile Gly His Val Asp His Gly Lys
35 40 45
Thr Thr Leu Thr Ala Ala Ile Thr Thr Val Leu Ala Gln Thr Tyr Gly
50 55 60
Gly Ala Ala Arg Ala Phe Asp Gln Ile Asp Asn Ala Pro Glu Glu Lys
65 70 75 80
Ala Arg Gly Ile Thr Ile Asn Thr Ser His Val Glu Tyr Asp Thr Pro
85 90 95
Thr Arg His Tyr Ala His Val Asp Cys Pro Gly His Ala Asp Tyr Val
100 105 110
Ser Leu His Pro Arg Ala Leu Asp Gly Ser Thr Leu Arg
115 120 125

<210> 5866
<211> 235
<212> PRT
<213> Enterobacter cloacae

<400> 5866
Cys Thr Thr Phe Gly Gln Arg Thr Gln Leu Ser Cys Ile Ser Glu His
1 5 10 15
Phe Arg Gln Arg Asn Phe Ser Val Asp Leu Asn Ala Ser Tyr Phe Gly
20 25 30
Phe Leu Thr Thr Gln His Thr Ala Thr Thr Ala Gln Val Thr Asp Asn
35 40 45
Val Thr Gly Val Leu Phe Arg Ser Phe Tyr Phe Asn Leu His Asp Arg
50 55 60
Leu Lys Gln Asn Trp Phe Cys Phe Leu Lys Ala Phe Phe Lys Gly Asn
65 70 75 80
Arg Arg Ser Gln Phe Lys Arg Gln Phe Arg Gly Val Asn Val Val Val
85 90 95
Arg Thr Glu Val Gln Thr Asn Thr His Val Tyr Asn Arg Val Thr Ser
100 105 110
Gln Arg Thr Ser Phe Gln Leu Leu Leu Asp Ala Phe Ile Asn Gly Arg
115 120 125
Asp Val Phe Ala Arg Asn Tyr Thr Thr Phe Asp Val Val Asp Glu Leu
130 135 140
Val Thr Phe Arg Val Arg Ala Arg Leu Gln Trp Val His Val Asp His
145 150 155 160
Asn Val Thr Val Leu Thr Ala Thr Thr Arg Leu Leu Ser Val Phe Thr
165 170 175
Phe Asn Val Gly Asn Phe Arg Ala Asn Arg Phe Ala Val Ser Asn Leu
180 185 190
Arg Phe Thr His Val Arg Phe Asn Val Glu Phe Thr Leu His Thr Val
195 200 205
Asn Asp Asp Val Gln Val Gln Phe Thr His Thr Ser Asp Asp Gly Leu
210 215 220
Val Arg Phe Phe Ile Ser Pro Tyr Thr Glu

225

230

235

<210> 5867
 <211> 371
 <212> PRT
 <213> Enterobacter cloacae

<400> 5867

Trp Val Phe Phe Arg Gln Thr Ala Gln Ser Gln Thr His Phe Phe Leu
 1 5 10 15
 Val Ser Phe Gly Phe Trp Phe Asn Cys Asp Gly Asp Tyr Arg Leu Arg
 20 25 30
 Glu Phe His Thr Leu Gln Asn Asp Arg Val Ile Arg Ile Thr Gln Ser
 35 40 45
 Val Thr Ser Gly His Val Phe Gln Thr Asp Ser Ser Ser Asp Val Ala
 50 55 60
 Arg Thr Asn Phe Phe Asp Leu Phe Thr Phe Val Ser Val His Leu Tyr
 65 70 75 80
 Asp Thr Ala Lys Thr Phe Thr Arg Arg His Gly Val Gln Asp Gly
 85 90 95
 Val Thr Gly Val Asn His Thr Arg Val Asn Ala Glu Glu Gly Gln Val
 100 105 110
 Thr His Glu Trp Val Gly Ser Asn Phe Glu Arg Gln Cys Arg Glu Trp
 115 120 125
 Leu Phe Ile Thr Cys Val Thr Leu Ser Arg Ser Ile Phe Thr Val Val
 130 135 140
 Gln Asp Ala Val Asp Arg Arg Asn Val Asn Arg Gly Trp Gln Val Val
 145 150 155 160
 Asn Tyr Arg Ile Gln His Arg Leu Asn Thr Phe Val Leu Glu Arg Arg
 165 170 175
 Thr Thr Gly Tyr Gln Asp Asp Phe Val Val Gln Asn Ala Leu Thr Gln
 180 185 190
 Ser Arg Phe Asp Leu Leu Leu Arg Gln Phe Phe Thr Thr Gln Val Phe
 195 200 205
 Phe His Gln Leu Phe Arg Ser Phe Cys Cys Gly Phe Asp Gln Val Leu
 210 215 220
 Val Pro Phe Val Ser Gln Val Leu His Leu Cys Arg Asp Ile Phe Val
 225 230 235 240
 Phe Glu Gly Asn Ala Arg Ile Cys Phe Val Pro Val Asp Gly Phe His
 245 250 255
 Phe His Gln Val Asp Asn Ala Gly Glu Ala Phe Phe Ser Thr Asn Cys
 260 265 270
 Gln Leu Lys Arg Asn Arg Val Arg Ala Gln Thr Gly Phe Asp Leu Ala
 275 280 285
 Asn Asn Phe Gln Glu Val Ser Thr His Thr Val His Phe Val Asn Glu
 290 295 300
 Arg Asp Ala Trp Asn Phe Ile Phe Val Cys Leu Thr Pro Tyr Gly Phe
 305 310 315 320
 Arg Leu Trp Leu Asn Thr Thr Asn Cys Ala Ile Asn His Tyr Arg Ala
 325 330 335
 Val Lys Asn Thr His Gly Thr Phe Tyr Phe Asp Gly Glu Val Asn Val
 340 345 350
 Pro Trp Gly Val Asp Asp Val Tyr Ala Met Arg Phe Val Leu Leu Ser
 355 360 365
 His Thr
 370

<210> 5868
 <211> 63
 <212> PRT
 <213> Enterobacter cloacae

<400> 5868

```

Ser Gly Ser His Arg Val Ser Pro Val Val Thr Ser Phe Arg Pro Ile
1          5          10          15
Ala Ala Ala Met Ser Pro Ala Arg Thr Ser Leu Ile Ser Ser Arg Leu
20          25          30
Leu Ala Cys Ile Cys Thr Ile Arg Pro Lys Arg Ser Arg Ala Ala Phe
35          40          45
Thr Glu Phe Arg Met Val Ser Pro Glu Leu Thr Thr Pro Glu
50          55          60

```

<210> 5869

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 5869

```

Pro His Ile Leu Asp Leu Phe Ala Pro Ser Leu Glu Pro Gly His Ser
1          5          10          15
Lys Thr Met Met Ala Ala Phe Ile Val Ala Ile Arg Gly Thr Val Thr
20          25          30
Gln Ala Val Leu Leu Gly Leu Ala Ala Thr Ile Ser His Thr Ser Ile
35          40          45
Val Trp Leu Ile Ala Leu Gly Gly Met Tyr Ile Arg Gln Lys Phe Thr
50          55          60
Ala Glu Ser Ala Glu Pro Trp Phe Gln Leu Ile Ser Ala Ile Ile Ile
65          70          75          80
Leu Ala Thr Ala Ala Trp Met Phe Trp Arg Thr Trp Arg Gly Glu Lys
85          90          95
Leu Trp Arg Met Glu Gln Glu Asp Glu His Gly His Val Asn His Pro
100          105          110          115
His Asp Glu Thr Arg Val Ile Asp Thr Gly His Gly Ser Val Glu Leu
120          125
Ser Ile Phe Glu Glu Gly Gln Pro Pro His Trp Arg Leu Arg Ser Leu
130          135          140
Ser Gly Arg Lys Trp Glu Ala Ser Asp Ile Thr Leu Val Thr Asn Arg
145          150          155          160
Gly Thr Gly Thr Phe Ser Gln Val Phe Asn Phe Val Glu Lys Asp Gly
165          170          175
Phe Met Glu Ser Ala Gln Pro Ile Pro Glu Pro His Asn Phe Glu Val
180          185          190
Cys Leu Ser Leu Gly His Arg Gly His Val His Asp Tyr Asp Val Glu
195          200          205
Phe Arg Glu His Asp His Asn His Asp His Ser Ala Leu Glu Gly Leu
210          215          220
Asp Val Ser Ser Leu Glu Tyr Gln Asp Ala His Glu Lys Ala His Ala
225          230          235          240
Asn Asp Ile Lys Lys Arg Phe Ala Asn Ser Ser Val Thr Thr Gly Gln
245          250          255
Ile Ile Leu Ser Arg Pro Asp Gly Ile His His Ala Asp Gly Lys Ile
260          265          270
Lys Arg Ser
275

```

<210> 5870

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 5870

```

Val Ile Phe His Gln Pro Leu Val Ala Cys Phe Asp Lys Thr Lys Leu

```

```

1           5           10           15
Thr Phe Asn Asn Pro Lys Arg Val Leu His Leu Cys Pro Asp Ala Gly
      20      25      30
Phe Gln Val Phe Glu Phe Asp Gly Gly Phe Val Phe Ala Gly Val Leu
      35      40      45
Phe Gln Tyr Pro Asp Phe Pro Trp Thr Phe Ser Asp Glu Pro Val His
      50      55      60
Ile Thr Val Leu Gln Leu Ile Pro Phe Leu Cys Ala Thr Ile Thr Arg
65      70      75      80
Ile Gly Gly Asp Lys Phe Phe Val Thr Val Gln Lys Ile Ile Gln Leu
      85      90      95
Val Gln Val Met Phe Ile Ser Gly Gly Gly His Gln Arg Met Ser Lys
      100      105      110
Ala Ala Phe Ser Ile Asp Ser Asn Met Ser Leu His Ala Lys Val Pro
      115      120      125
Leu Ile Ser Phe Phe Gly Leu Met His Ile Gly Val Thr Leu Phe Val
      130      135      140
Phe Ile Leu Gly
145

```

<210> 5871

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 5871

```

Gly His Met Ser Gln Gln Leu Thr Phe Ala Asp Ser Glu Phe Ser Ser
1           5           10           15
Lys Arg Arg Leu Thr Arg Lys Glu Ile Phe Leu Ser Arg Met Asp Thr
      20      25      30
Leu Leu Pro Trp Pro Gln Leu Leu Gly Asn Ile Glu Pro Val Tyr Pro
      35      40      45
Lys Ala Gly Asn Gly Arg Arg Pro Tyr Ser Leu Glu Thr Met Phe Arg
      50      55      60
Ile His Cys Leu Gln Leu Trp Tyr Ser Leu Gly Asp Glu Ala Met Glu
65      70      75      80
Asp Ala Leu Tyr Glu Ile Ala Ser Met Arg Gln Phe Ala Leu Leu Ser
      85      90      95
Leu Asp Lys Ala Ile Pro Asp Arg Thr Thr Ile Met Asn Phe Arg His
      100      105      110
Leu Leu Glu Lys Tyr Lys Leu Thr Arg Lys Ile Phe Gln Thr Val Asn
      115      120      125
Gln Trp Leu Leu Asp Cys Gly Val Met Met Thr Gln Gly Thr Leu Val
      130      135      140
Asp Ala Thr Ile Ile Glu Ala Pro Ser Ser Thr Lys Asn Lys Asn Lys
      145      150      155      160
Gln Arg Asp Pro Asp Met His Gln Thr Lys Lys Gly Asn Gln Trp His
      165      170      175
Phe Gly Met Lys Ala His Ile Gly Val Asp Ala Glu Ser Gly Leu Thr
      180      185      190
His Thr Leu Val Thr Thr Ala Ala Asn Glu His Asp Leu Asn Gln Leu
      195      200      205
Asn Asn Leu Leu His Gly Asp Glu Glu Phe Val Ser Ala Asp Ala Gly
      210      215      220
Tyr Arg Gly Ala Glu Lys Arg Asp Glu Leu Lys Asp Arg Asp Val Asp
225      230      235      240
Trp Phe Ile Ala Glu Arg Pro Gly Lys Val Arg Ile Leu Lys Lys His
      245      250      255
Pro Arg Lys Asn Lys Ala Ala Ile Lys Leu Glu Tyr Leu Lys Ala Ser
      260      265      270
Ile Arg Ala Lys Val Glu His Pro Phe Arg Val Ile Lys Arg Gln Phe

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<210>	5873
<211>	168

<212> PRT

<213> Enterobacter cloacae

<400> 5873

```

Gly Gly Val Asp Asp Phe Ala Arg Cys Val Lys Tyr Ile Arg Glu Gly
1          5          10          15
Gln Ala Tyr Thr Asn Glu Val Gln Pro Arg Ala Asn Gly Gln Ala Gln
20          25          30
Arg Ile Leu Glu Glu Ala Arg Ala Tyr Lys Thr Gln Thr Ile Leu Glu
35          40          45
Ala Gln Gly Glu Val Ala Arg Phe Ala Lys Ile Leu Pro Glu Tyr Lys
50          55          60
Ala Ala Pro Glu Ile Thr Arg Glu Arg Leu Tyr Ile Glu Thr Met Glu
65          70          75
Lys Val Leu Ser His Thr Arg Lys Val Leu Val Asn Asp Asn Lys Gly
85          90          95
Gly Asn Leu Met Val Leu Pro Leu Asp Gln Met Leu Lys Gly Gly Ser
100         105         110
Ala Pro Ala Ala Lys Asp Asn Ser Gly Ala Asn Asn Leu Leu Arg Leu
115         120         125
Pro Pro Ala Ser Ser Gly Ser Ala Ser Ala Asn Thr Thr Pro Ser Ser
130         135         140
Asn Asp Gly Asp Ile Met Asp Gln Arg Arg Ala Asn Ala Gln Arg Asn
145         150         155         160
Asp Tyr Gln Arg Gln Gly Glu
165

```

<210> 5874

<211> 303

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(252)

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<222>(296)

<400> 5874
Val Arg Leu Arg Gly Ser Ser Leu Pro Leu Val Lys Ile Met Thr Asp
1 5 10 15
Pro Ala Gly Ala Ser Glu Leu Val Phe Gly Leu Phe Trp Leu Leu Gly
20 25 30
Tyr Gln Phe Ser Pro Arg Leu Ala Asp Ala Gly Ala Ser Val Phe Trp
35 40 45
Arg Met Asp His Asp Ala Asp Tyr Gly Val Leu Asn Asp Ile Ala Arg
50 55 60
Gly Gln Ser Asp Pro Arg Lys Ile Val Leu Gln Trp Asp Glu Met Ile
65 70 75 80
Arg Thr Ala Gly Ser Leu Lys Leu Gly Lys Val Gln Val Ser Val Leu
85 90 95
Val Arg Ser Leu Leu Lys Ser Glu Arg Pro Ser Gly Leu Thr Gln Ala
100 105 110
Ile Ile Glu Val Gly Arg Ile Asn Lys Thr Leu Tyr Leu Leu Asn Tyr
115 120 125
Ile Asp Asp Glu Asp Tyr Arg Arg Arg Ile Leu Thr Gln Leu Asn Arg
130 135 140
Gly Glu Ser Arg His Ala Val Ala Arg Ala Ile Cys His Gly Gln Lys
145 150 155 160
Gly Glu Ile Arg Lys Arg Tyr Thr Asp Gly Gln Glu Asp Gln Leu Gly
165 170 175
Thr Leu Gly Leu Val Thr Asn Ala Val Val Leu Trp Asn Thr Ile Tyr
180 185 190
Met Gln Ala Ala Leu Asp His Leu Arg Ala Gln Gly Glu Thr Leu Asn
195 200 205
Asp Glu Asn Ile Ala Arg Leu Ser Pro Leu Cys His Gly His Ile Asn
210 215 220
Met Leu Gly His Tyr Ser Phe Thr Leu Ala Glu Leu Val Thr Lys Gly

400> 5875	Asn	Pro	Glu	Arg	Lys	Phe	Pro	Glu	Gly	Ile	Gln	Tyr	Ser	Ile	Ala	Tyr
1	Asp	Pro	Thr	Phe	Phe	Ala	Ser	Ala	Ser	Leu	Lys	Ser	Val	Ala	Thr	Thr
Leu	Leu	Glu	Ala	Thr	Ile	Leu	Val	Val	Leu	Val	Val	Met	Leu	Phe	Leu	
Gln	Thr	Trp	Arg	Ala	Ser	Ile	Ile	Pro	Leu	Val	Ala	Val	Pro	Ile	Ser	
65	Leu	Val	Gly	Thr	Phe	Ala	Leu	Met	Asp	Val	Phe	Gly	Phe	Ser	Leu	Asn
Thr	Leu	Ser	Leu	Phe	Gly	Leu	Val	Leu	Ser	Ile	Gly	Ile	Val	Val	Asp	
Asp	Ala	Ile	Val	Val	Val	Glu	Asn	Val	Glu	Arg	His	Ile	Ala	Arg	Gly	
Leu	Ser	Pro	Lys	Asp	Ala	Ala	Arg	Lys	Ala	Met	Asp	Glu	Val	Thr	Gly	
Pro	Ile	Leu	Ala	Ile	Thr	Ser	Val	Leu	Ala	Ala	Val	Phe	Ile	Pro	Ser	
Ala	Phe	Leu	Ser	Gly	Leu	Gln	Gly	Glu	Phe	Tyr	Arg	Gln	Phe	Ala	Leu	
Thr	Ile	Ala	Ile	Ser	Thr	Ile	Leu	Ser	Ala	Ile	Asn	Ser	Leu	Thr	Leu	
Ser	Pro	Ala	Leu	Ala	Ser	Val	Leu	Leu	Lys	Pro	His	Gln	Gly	Thr	Asp	
Lys	Lys	Asp	Met	Leu	Thr	Arg	Val	Val	Glu	Arg	Leu	Leu	Gly	Ser	Phe	
Phe	Gly	Arg	Phe	Asn	Thr	Phe	Phe	Asp	Arg	Leu	Ser	Glu	Lys	Tyr	Val	
Asp	Thr	Val	Arg	Arg	Ile	Val	Arg	Gly	Ser	Thr	Ile	Val	Leu	Ile	Leu	
225	Tyr	Ala	Gly	Phe	Leu	Ala	Met	Thr	Phe	Leu	Gly	Phe	Lys	Gln	Val	Pro
Gly	Gly	Phe	Val	Pro	Ala	Gln	Asp	Lys	Tyr	Tyr	Leu	Val	Gly	Ile	Ala	
Gln	Leu	Pro	Thr	Gly	Ala	Ser	Leu	Asp	Arg	Thr	Glu	Ala	Val	Val	Lys	
Glu	Met	Thr	Arg	Leu	Ala	Leu	Ala	Gln	Pro	Gly	Val	Glu	Ser	Val	Val	
Ala	Phe	Pro	Gly	Leu	Ser	Val	Asn	Gly	Pro	Asn	Met	Pro	Asn	Ser	Ala	
Leu	Met	Phe	Thr	Met	Leu	Lys	Pro	Phe	Lys	Asp	Arg	Gln	Asp	Pro	Ser	
Leu	Ser	Ala	Tyr	Ala	Ile	Ala	Gly	Ser	Leu	Met	Gly	Lys	Phe	Ser	Lys	
Ile	Pro	Asp	Gly	Phe	Val	Gly	Ile	Phe	Pro	Pro	Pro	Pro	Val	Pro	Gly	

355 360 365
 Leu Gly Ser Met Gly Gly Phe Lys Leu Gln Ile Glu Asp Arg Ala Gly
 370 375 380
 Leu Gly Phe Glu Glu Leu Ala Arg Val Gln Gly Thr Ile Met Ala Lys
 385 390 400
 Ala Met Gln Thr Pro Glu Leu Ala Gly Met Met Ala Ser Phe Glu Thr
 405 410 415
 Asn Ser Pro Gln Ile Gln Val Asp Ile Asp Arg Val Lys Ala Lys Ser
 420 425 430
 Gln Gly Val Ala Leu Thr Asp Ile Phe Asp Thr Leu Gln Val Asn Leu
 435 440 445
 Gly Ser Leu Tyr Val Asn Asp Phe Asn Arg Phe Gly Arg Thr Tyr Arg
 450 455 460
 Val Ile Thr Gln Ala Asp Ala Pro Phe Arg Met Gln Ala Glu Asp Ile
 465 470 475
 Gly Leu Leu Lys Val Arg Asn Ala Ala Gly Glu Met Ile Pro Leu Ser
 485 490 495
 Ala Leu Ile Asn Ile Lys Leu Thr Ser Gly Pro Asp Arg Val Met Arg
 500 505 510
 Tyr Asn Gly Tyr Pro Ser Ala Asp Ile Thr Gly Gly Thr Ala Pro Gly
 515 520 525
 Tyr Ser Ser Gly Gln Ala Thr Asp Ala Ile Glu Lys Ile Val Lys Glu
 530 535 540
 Ser Leu Pro Glu Gly Met Ala Tyr Glu Trp Thr Asp Leu Thr Tyr Gln
 545 550 555
 Glu Lys Leu Ala Gly Asn Ser Ala Leu Tyr Ile Phe Pro Leu Ala Val
 565 570 575
 Phe Phe Ala Phe Leu Ile Leu Ala Ala Gln Tyr Asn Ser Trp Ser Leu
 580 585 590
 Pro Phe Ala Val Leu Leu Ile Ala Pro Met Ala Leu Leu Ser Ala Ile
 595 600 605
 Gly Gly Val Trp Ile Ser Asn Gly Asp Asn Asn Ile Phe Thr Gln Ile
 610 615 620
 Gly Phe Val Val Leu Val Gly Leu Ala Ala Lys Asn Ala Ile Leu Ile
 625 630 635
 Val Glu Phe Ala Arg Thr Gln Glu Asn Glu Gly Leu Ser Pro Leu Glu
 645 650 655
 Ala Val Leu Glu Ala Ala His Leu Arg Leu Arg Pro Ile Leu Met Thr
 660 665 670
 Ser Leu Ala Phe Ile Ala Gly Val Ile Pro Leu Val Leu Ala Ser Gly
 675 680 685
 Ala Gly Ala Glu Met Arg His Ala Met Gly Ile Ala Val Phe Ala Gly
 690 695 700
 Met Leu Gly Val Thr Phe Phe Gly Leu Leu Leu Thr Pro Val Phe Tyr
 705 710 715
 Val Val Val Arg Ser Phe Ser Ile Arg Arg Lys Val Asn Ser His Gln
 725 730 735
 Leu Leu Ser Glu Lys Arg
 740

<210> 5876

<211> 93

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (91)

<400> 5876

Leu Gln Gln Met Asn Gly Lys Ala Leu Asp Leu Thr Thr Val Val Ser

1	Pro	Lys	Leu	Lys	Gly	Thr	Thr	Thr	Lys	Gln	Asp	Thr	Tyr	Met	Gln	Phe
				20					25					30		
His	Leu	Asp	Asn	Met	Thr	Cys	Gly	Gly	Cys	Ala	Arg	Thr	Val	Thr	Lys	
		35					40						45			
Val	Ile	Gln	Asn	Leu	Asp	Pro	Asp	Ala	Ser	Ile	Val	Thr	Asp	Pro	Pro	
	50					55					60					
Thr	Arg	Lys	Val	Glu	Ile	Gln	Thr	Leu	Leu	Ser	Val	Asp	Leu	Ile	Ser	
65				70						75					80	
Asp	Ala	Leu	Arg	Glu	Ala	Gly	Phe	Pro	Pro	Xaa	Glu					
				85					90							

<210> 5877

$\langle 211 \rangle$ 384

<212> PRT

<213> Enterobacter cloacae

<400> 5877

Pro 1	Pro 1	Ser 1	Val 5	ln 5	Gly 5	Ala 5	Leu 5	Ala 10	Gly 10	Gly 10	Pro 15	Ser 15	Ala 15	Arg 15	Phe 15
Arg 20	Gly 20	Thr 20	Gly 20	Asn 20	Arg 20	Cys 20	Gly 20	His 25	Cys 25	Leu 25	Arg 25	Ala 30	Thr 30	Phe 30	Leu 30
Pro 35	Ser 35	Pro 35	Thr 35	Arg 35	Arg 35	Phe 40	Ser 40	Ala 45	Ile 45	Thr 45	Ala 45	Glu 45	Tyr 45	Leu 45	Val 45
Thr 50	Ala 50	Ala 50	Gly 50	Tyr 50	His 50	Phe 55	Glu 55	Glu 55	Asn 55	Arg 55	Tyr 55	Ala 55	Ile 55	Gly 55	Glu 55
Gly 65	Glu 65	Thr 65	Ile 65	His 65	Arg 65	Thr 70	Asp 70	Phe 70	Ser 70	Val 75	Ile 75	Pro 75	Ala 75	Ser 75	Val 80
Ser 85	Tyr 85	Arg 85	Pro 85	Ala 85	Gln 85	Ser 85	Thr 85	Ala 90	Trp 90	Pro 90	Arg 90	Thr 90	Tyr 90	Gly 95	Pro 95
Gln 100	Thr 100	Ala 100	Val 100	Val 100	Gly 100	Pro 105	Gln 105	Gly 105	Glu 105	Ser 105	Ile 105	Trp 110	Tyr 110	Thr 110	Asp 110
Lys 115	Tyr 115	Gly 115	Arg 115	Val 115	Lys 115	Val 120	Val 120	Phe 120	His 120	Trp 125	Asp 125	Arg 125	Leu 125	Ala 125	Lys 125
Gly 130	Asp 130	Asp 130	Thr 130	Ser 130	Ser 130	Cys 135	Trp 135	Val 135	Arg 135	Val 140	Ser 140	Ser 140	Ala 140	Trp 140	Ala 140
Gly 145	Gln 145	Gly 145	Tyr 145	Gly 145	Gly 145	Val 150	Gln 150	Ile 150	Pro 155	Arg 155	Val 155	Gly 155	Asp 155	Glu 155	Val 160
Val 165	Val 165	Asp 165	Phe 165	Ile 165	Asn 165	Gly 165	Asp 165	Pro 170	Asp 170	Arg 170	Pro 170	Ile 170	Ile 170	Thr 175	Gly 175
Arg 180	Val 180	Tyr 180	Asn 180	Asp 180	Ala 180	Ser 180	Met 180	Pro 185	Pro 185	Trp 185	Ala 185	Leu 185	Pro 185	Ala 185	Ala 185
Ala 195	Thr 195	Gln 195	Met 195	Gly 195	Phe 195	Met 195	Ser 195	Arg 195	Ser 195	Lys 195	Asp 195	Gly 195	His 195	Lys 195	Asp 195
Asn 210	Ala 210	Asn 210	Ala 210	Leu 210	Arg 210	Phe 215	Glu 215	Asp 215	Lys 215	Ala 220	Gly 220	Gln 220	Glu 220	Gln 220	Ile 220
Trp 225	Ile 225	His 225	Ala 225	Glu 225	Lys 225	Asn 230	Met 230	Asp 230	Thr 230	Glu 235	Ile 235	Glu 235	Asn 235	Cys 235	Glu 240
Thr 245	His 245	Asp 245	Val 245	Gly 245	Val 245	Asp 245	Arg 245	Lys 245	Lys 245	Ile 245	Ile 245	Gly 245	Arg 245	Asp 255	Glu 255
His 260	Val 260	Thr 260	Val 260	Lys 260	Arg 260	Asn 265	Arg 265	Asp 265	Val 265	Asn 265	Val 265	Gly 265	Ala 265	Asn 265	Ser 265
Thr 275	Ser 275	Asn 275	Thr 275	Gly 275	Asn 275	Gln 280	His 280	Lys 280	Phe 280	Asn 280	Val 280	Gly 280	Lys 280	Asn 280	Gln 280
Thr 290	Val 290	Leu 290	Thr 290	Met 290	Asp 290	Lys 295	Glu 295	Gly 295	Asn 295	Ala 300	Leu 300	Leu 300	Glu 300	Ala 300	Thr 300
Thr 305	Ser 305	Ile 305	Lys 305	Leu 305	Lys 310	Val 310	Asn 310	Asp 310	Asn 310	Tyr 315	Ile 315	Leu 315	Ile 315	Thr 315	Pro 320
Ser 325	Thr 325	Ile 325	Glu 325	Ile 325	Val 325	Val 325	Ser 325	Glu 325	Gly 325	Thr 330	Leu 330	Lys 330	Ala 330	Glu 330	Ser 330
Ile 335	Thr 335	Val 335	Ala 335	Ser 335	Phe 335	Lys 335	Gly 335	Thr 335	Glu 335	Leu 335	Thr 335	Lys 335	Leu 335	Gly 335	Gly 335

340 345 350
 Gly Ile Asn Ala Glu Met Lys Ala Asn Asp Thr Leu His Leu Asn Gly
 355 360 365
 Thr Asn Leu Thr Asp Ile Lys Gly Ala Val Val Lys Ile Asn Ser
 370 375 380

<210> 5878

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 5878

Tyr Val Glu Gly Phe Leu Asn Met Gly Gln Pro Ala Ala Arg Ala Thr
 1 5 10 15
 Ile Asp Val Ser Ala His Ser Gly Pro Ile Gln Ser Gly Ser Pro Asp
 20 25 30
 Val Ile Ile Gly Gly Phe Pro Ala Ala Arg Lys Gly Asp Thr Leu Ser
 35 40 45
 Cys Ser Thr His Gly Ser Gly Ile Ile Val Gly Gly Ser Gly Thr Val
 50 55 60
 Phe Val Asn Gly Met Pro Leu Ala Arg Gln Gly Asp Lys Thr Lys Cys
 65 70 75 80
 Asp Val Ser Gly Ser Pro Ala Pro Ala Ile Pro Lys Ala Ala Ala Pro
 85 90 95
 Gln Tyr Trp Gly Gly Thr Leu Ala Lys Asn Ala Gly Glu Asp Gly Met
 100 105 110
 Met His Gly Glu His Phe Asp Ala Arg Val Leu Gly Ala Tyr Ala Ser
 115 120 125
 Leu Glu Asp Lys Asn Leu Asn Gly Asp Phe Asp Thr Ala Ser Ala Gly
 130 135 140
 Phe Ala Leu Ala Asp Ile Thr Ile Gly Asn Met Lys Ser Lys Asp Leu
 145 150 155 160
 Leu Arg Ala Glu Met Arg Asn Lys Leu Ala Val Ala Asn Ala Thr Gly
 165 170 175
 Ser Leu Tyr Gly Gly Gly Asn Asp Ile Tyr Gly Leu Asn Ala Asn Ala
 180 185 190
 Ala Ala Thr Gly Glu Gln Tyr Gly Gly Ser Val Ala Ala Gly Lys Glu
 195 200 205
 Gly Thr Leu Tyr Gly Gly Val Ser Gly Asp Val Thr Ile Gly Thr Ala
 210 215 220
 Glu Ala Lys Ala Val Leu Glu Val Tyr Thr Gly Asn Asp Gly Lys Tyr
 225 230 235 240
 Gly Leu Thr Ala Asp Ala Gly Ala Glu Ala Lys Gly Met Lys Gly Glu
 245 250 255
 Val Ser Gly Asn Leu Asp Ile Leu Gly Ile Val Ser Gly Glu Ala Lys
 260 265 270
 Ile Asp Gly Ser Phe Gly Ser Ala Gly Leu Ala Gly Gly Gly Ser Ala
 275 280 285
 Phe Trp Asp Thr Lys Asp Tyr Ser Val Asn Val Arg Val Thr Gly Gly
 290 295 300
 Ala Ala Gly Leu Val Trp Leu Lys Gly Asp Ala Ser Leu Lys Val Ala
 305 310 315 320
 Phe Lys Pro Ile Leu Asp Phe Phe Asp Tyr Leu Tyr Gly Glu Glu Asp
 325 330 335
 Glu Pro Ala Val Thr Ser Val Leu Thr Glu Ser Gly Asp Gly Thr Ile
 340 345 350
 Ile Thr Gly Cys Val Thr Val Leu Ile Gly Asp
 355 360

<210> 5879

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5879

Lys Arg Asp Thr Ile Tyr Ser Thr Gln Glu Ile Leu Met Ser Pro Phe
 1 5 10 15
 Ser Thr Leu Gln Leu Phe Lys Asn Leu Ser Asp Glu Thr Arg Leu Gly
 20 25 30
 Ile Val Leu Met Leu Lys Glu Met Gly Glu Leu Cys Val Cys Asp Leu
 35 40 45
 Cys Thr Ala Leu Glu Gln Ser Gln Pro Lys Ile Ser Arg His Leu Ala
 50 55 60
 Met Leu Arg Glu Ser Gly Leu Leu Leu Asp Arg Lys Asn Gly Lys Trp
 65 70 75 80
 Val His Tyr Arg Leu Ser Pro His Ile Pro Ser Trp Ala Ala Gln Val
 85 90 95
 Ile Glu Gln Ala Trp Leu Ser Gln Gln Asp Asp Val Gln Ala Ile Ala
 100 105 110
 Arg Lys Leu Ala Ser Ala Asn Cys Ser Gly Ser Gly Lys Ala Val Cys
 115 120 125
 Ile
 130

<210> 5880

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 5880

His Leu Lys Ala Ala Ala Val Val Ile Leu Leu Val Ala Glu Met Ser
 1 5 10 15
 Gly Gly His Met Lys Phe Leu Gln Asn Ile Pro Pro Tyr Leu Phe Phe
 20 25 30
 Thr Gly Lys Gly Gly Val Gly Lys Thr Ser Ile Ser Cys Ala Thr Ala
 35 40 45
 Ile Ser Leu Ala Glu Gln Gly Lys Arg Val Leu Leu Val Ser Thr Asp
 50 55 60
 Pro Ala Ser Asn Val Gly Gln Val Phe Ser Gln Thr Ile Gly Asn Thr
 65 70 75 80
 Ile Leu Pro Val Ala Ser Val Pro Gly Leu Ser Ala Leu Glu Ile Asp
 85 90 95
 Pro Gln Ala Ala Ala Gln Glu Tyr Arg Ala Arg Ile Val Asp Pro Ile
 100 105 110
 Lys Gly Ile Leu Pro Glu Ser Ser Pro Arg Gly Trp Gln Asp Pro Ser
 115 120 125
 Leu Ala Lys
 130

<210> 5881

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 5881

Ala Phe Ile Arg Arg Thr Ile Met Glu Asn Ile Ala Leu Ile Gly Ile
 1 5 10 15
 Asp Leu Gly Lys Asn Ser Phe His Ile His Cys Gln Asp Arg Arg Gly
 20 25 30
 Lys Ala Val Tyr Arg Lys Lys Phe Thr Arg Pro Lys Leu Ile Glu Phe
 35 40 45
 Leu Ala Thr Cys Pro Ala Thr Thr Ile Ala Met Glu Ala Cys Gly Gly

50		55		60
Ser His Phe Met Ala Arg Lys Leu Glu Glu Leu Gly His Phe Pro Lys				
65		70		75
Leu Ile Ser Pro Gln Phe Val Arg Pro Phe Val Lys Ser Asn Lys Asn				80
	85		90	95
Glu Phe Val Asp Ala Val Phe Thr Asn Gly Ala Gly Ser Thr Ile				
	100		105	110

<210> 5882

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 5882

Phe Met Asn Ile Lys Arg Leu Val Leu Ser Ala Leu Val Val Gly Thr				
1	5		10	15
Ser Ser Tyr Leu Thr Gly Cys Ser Ile Gly Ser Ser Glu Ser Glu Cys				
	20		25	30
Pro Gly Ile Glu Lys Gly Val Ile Cys Lys Gly Pro Arg Glu Val Met				
	35		40	45
Glu Leu Thr Asn Asn Arg Asp Asp Leu Ser Ala Leu Ala Gly Glu Glu				
	50		55	60
Ser Glu Ser Gly Lys Glu Lys Ser Ala Val Asn Asp Ser Arg Tyr Pro				
65	70		75	80
Thr Glu Ile Ser Pro Pro Gly Glu Val Lys Tyr Pro Gln Ser Thr Thr				
	85		90	95
Leu Lys Asn Gln Pro Val Ala Tyr Ser Lys Thr Glu Ile Lys Pro Val				
	100		105	110
Gly Gln Leu Pro Val Met Tyr Asp Lys Thr Leu Lys Met Gly Ala Pro				
	115		120	125
Thr Ser Ser Ile Gly Pro Arg Pro Ile Ser Gly Val Pro Val Asn Ser				
	130		135	140
Asn Val Arg Met Thr Ile Ser Tyr Ser Thr Ala Ser Ser Thr Gly Asn				
145	150		155	160
Pro Phe Val His Pro Ala Ala Glu Val Val Lys Gln Thr Ser Tyr Pro				
	165		170	175
Val Ser Ala Gly Asn Ala Pro Arg Tyr Val Ala Pro Asn Ser Asp Ile				
	180		185	190
Ser Pro Gly Lys Asp Met Tyr Ser Leu Tyr Asn Gly Gln Pro Val Asn				
	195		200	205
Pro Thr Leu Asn Pro Gly Gln Ile Gln Gln Tyr Arg Ser Gln Gly Tyr				
	210		215	220
Lys Gln Ala Val Val Ala Pro Glu Pro Leu Ala Val Leu Gln Gln Gly				
225	230		235	240
Lys Val Met Arg Ile Thr Phe Ala Pro Tyr Thr Asp Asp Asn Asp Ala				
	245		250	255
Leu Asn Leu Pro Gly Tyr Val Tyr Val Asn Val Lys Pro Gln Thr Trp				
	260		265	270
Ile Ala Gly Lys Asn Ser Thr Ser Asn Pro Ala Arg Ile Val Pro Leu				
	275		280	285
Glu Val Gln Asp Ala Ala Arg Glu Asn Met Gln Gln Gln Lys Ala				
	290		295	300
Thr Lys Ala Val Ser Ser Asn Gly Ile Val Arg Gln Leu				
305	310		315	

<210> 5883

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 5883

Thr Pro Arg Lys Asn Ser Arg Trp Ala Glu Gly Phe Ile Asp Val Asn
 1 5 10 15
 Thr Met Lys Arg Leu Asn Glu Gln Val Asn Val Pro Gly Arg Lys Tyr
 20 25 30
 Thr Val Thr Glu Asn His Phe Ser Ser Val Thr Gln Ser Asp Asp Glu
 35 40 45
 Ser Glu His Arg Tyr Phe Lys Gln Leu Ser Val Val Lys Phe Pro Glu
 50 55 60
 Tyr Val Asn Phe Gly Cys Met Tyr Glu Leu Val Val Asn Trp Met His
 65 70 75 80
 Gly Arg Lys Thr Ile Phe Ser Pro Phe Met Ile Thr Gln Thr Val Gln
 85 90 95
 Phe Ala Asp Pro Leu Lys Leu Ser Lys Glu Asn Val Arg Tyr Lys Ala
 100 105 110
 Ile Thr Asn Lys Gln Ala Ser Ile Pro Ser Val Val Thr Phe Cys Pro
 115 120 125
 Arg Leu Arg Asp Met Asp Asn Asp Tyr Met Ala Val Thr Arg Glu Leu
 130 135 140
 Glu Asp Gly Ala Lys Leu Leu Arg Gly Tyr Leu Thr Phe Thr Val Met
 145 150 155 160
 Gly Ser Asn Ala Asn Ser Val Gln Thr Ala Ala Asn Asp Leu Lys Ser
 165 170 175
 Phe Tyr Leu Glu Ser Arg Val Lys Val Ala Asp Asp Ser Phe Ile Val
 180 185 190
 Phe Pro Ser Phe Met Ser Cys Leu Pro Met Cys Asn Asp Pro Lys Thr
 195 200 205
 Ile Phe Asp Leu Asp Arg Ser Glu Val Val Ser Asn Thr Gly Ala Ala
 210 215 220
 His Met Thr Pro Ile Phe Gly Pro Trp Lys Gly Asn Thr Asp Arg Pro
 225 230 235 240
 Val Leu Ser Leu Val Ser Arg Glu Gly Gln Leu Met Gly Leu Asp Ile
 245 250 255
 Phe Lys Thr Ser Ala Ser Tyr Asn Met Val Ile Gly Ala Thr Ser Gly
 260 265 270
 Ala Gly Lys Ser Phe Trp Thr Ala Tyr Leu Ile Asn Asn Tyr Leu Gly
 275 280 285
 Ala Gly Pro Arg Ser Asn Asn Leu Val His Tyr Arg Ser Thr Phe Lys
 290 295 300
 His Phe Leu Glu Asn Glu Tyr Pro Asp Asp Asp Pro Asp Gly Ala Gln
 305 310 315 320
 Val Phe Val Val Asp Val Gly Arg Ser Tyr Gln Gly Ile Ala Glu Gln
 325 330 335
 Tyr Thr Asn Ser Gln Phe Ile Asp Phe Gly Lys Thr Pro Asp Phe Thr
 340 345 350
 Leu Asn Pro Phe Ala Phe Leu Thr Asp Ile Thr Val Asn Asp Asp Val
 355 360 365
 Phe Asn Glu Ala Pro Glu Phe Thr Gly Glu Ser Thr Ser Asn Asp Ala
 370 375 380
 Glu Lys Asp Lys Val Ala Gln Thr Ile Met Val Leu Asn Gln Leu Lys
 385 390 395 400
 Ile Met Ala Ser Glu Lys Gly Leu Ile Asp Tyr Gln Gln Ser Val
 405 410 415
 Met Leu Gln Leu Ile Ala Glu Glu Tyr Gln Glu Ser Arg Lys Ser Gly
 420 425 430
 Arg Thr Gly Ser Ile Thr Gly Phe Ala Leu Arg Cys Lys Lys His Glu
 435 440 445
 Asp Lys Arg Ile Lys Asp Ile Gly Glu Gln Leu Gly Ala Trp Cys Glu
 450 455 460
 Gly Gly Ile Tyr Gly His Arg Phe Thr Asp Thr Leu Pro Pro Ile Asn
 465 470 475 480
 Phe Asp Ser Arg Phe Ile Val Leu Glu Leu Glu Glu Leu Lys Gly Thr

325 330 335
 Asn Asn His Asn Ala Asn Glu Ala Ile Asn Asn Gly Phe Ala Leu Val
 340 345 350
 Thr Glu Glu Arg Arg Ser Thr Gly Ile Tyr Ala Tyr Leu Asp Ile Asn
 355 360 365
 Phe Asn Ser Leu Ile Ser Asn Ile Arg Asn Tyr Lys Asn Lys Val Gly
 370 375 380
 Leu Leu Asp Asn Ser Arg Met Lys Ser Asp Thr Gln Trp Val Ile Asp
 385 390 395 400
 Ser Met Arg Val Lys Thr Pro Gly His Arg Thr Gln Ile Gly Ser Leu
 405 410 415
 Ser Gly Gly Asn Gln Gln Lys Val Ile Ile Gly Arg Trp Leu Leu Thr
 420 425 430
 Gln Pro Glu Ile Leu Met Leu Asp Glu Pro Thr Arg Gly Ile Asp Val
 435 440 445
 Gly Ala Lys Phe Glu Ile Tyr Gln Leu Ile Ala Glu Leu Ala Lys Lys
 450 455 460
 Asp Lys Gly Ile Ile Ile Ile Ser Ser Glu Met Pro Glu Leu Leu Gly
 465 470 475 480
 Ile Thr Asp Arg Ile Leu Val Met Ser Asn Gly Leu Val Ala Gly Ile
 485 490 495
 Val Glu Thr Lys Thr Thr Thr Gln Asn Glu Ile Leu Arg Leu Ala Ser
 500 505 510
 Leu His Leu
 515

<210> 5885

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 5885

Asp Gln Gly Leu Leu Met Ser Ala Leu Asn Lys Lys Ser Phe Leu Thr
 1 5 10 15
 Tyr Leu Lys Glu Gly Gly Ile Tyr Val Val Leu Leu Val Leu Leu Ala
 20 25 30
 Ile Ile Ile Phe Gln Asp Pro Thr Phe Leu Ser Leu Leu Asn Leu Ser
 35 40 45
 Asn Ile Leu Thr Gln Ser Ser Val Arg Ile Ile Ile Ala Leu Gly Val
 50 55 60
 Ala Gly Leu Ile Val Thr Gln Gly Thr Asp Leu Ser Ala Gly Arg Gln
 65 70 75 80
 Val Gly Leu Ala Ala Val Ile Ala Ala Thr Leu Leu Gln Ser Met Glu
 85 90 95
 Asn Ala Asn Lys Val Phe Pro Glu Met Ala Thr Met Pro Ile Phe Val
 100 105 110
 Val Ile Leu Ile Val Cys Ala Ile Gly Ala Val Ile Gly Leu Ile Asn
 115 120 125
 Gly Ile Ile Ile Ala Tyr Leu Asn Val Thr Pro Phe Ile Thr Thr Leu
 130 135 140
 Gly Thr Met Ile Ile Val Tyr Gly Ile Asn Ser Leu Tyr Tyr Asp Phe
 145 150 155 160
 Val Gly Ala Ser Pro Ile Ser Gly Phe Asp Ser Gly Phe Ser Thr Phe
 165 170 175
 Thr Gln Gly Phe Val Ala Leu Gly Ser Phe Arg Leu Ser Tyr Ile Thr
 180 185 190
 Phe Tyr Ala Leu Ile Ala Val Ala Phe Val Trp Ile Leu Trp Asn Lys
 195 200 205
 Thr Arg Phe Gly Lys Asn Ile Phe Ala Ile Gly Gly Asn Pro Glu Ala
 210 215 220
 Ala Lys Val Ser Gly Val Asn Val Ala Leu Asn Leu Leu Met Ile Tyr

[illegible]

<210> 5886

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 5886

[illegible]

<210> 5887

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 5887

```

His Gln Pro His Arg Asp Cys Pro Leu Cys Ser His Phe Leu Glu Arg
1      5      10      15
Val Met Glu Ile Leu Tyr Asn Val Phe Thr Val Phe Phe Asn Gln Val
20      25      30
Met Thr Asn Ala Pro Leu Leu Leu Gly Ile Val Thr Cys Leu Gly Tyr
35      40      45
Ile Leu Leu Arg Lys Ser Val Ser Val Ile Ile Lys Gly Thr Ile Lys
50      55      60
Thr Ile Ile Gly Phe Met Leu Leu Gln Ala Gly Ser Gly Ile Leu Thr
65      70      75      80
Ser Thr Phe Lys Pro Val Val Ala Lys Met Ser Glu Val Tyr Gly Ile
85      90      95
Asn Gly Ala Ile Ser Asp Thr Tyr Ala Ser Met Met Ala Thr Ile Asp
100     105     110
Arg Met Gly Asp Ala Tyr Ser Trp Val Gly Tyr Ala Val Leu Leu Ala
115     120     125
Leu Ala Leu Asn Ile Ile Tyr Val Leu Leu Arg Arg Ile Thr Gly Ile
130     135     140
Arg Thr Ile Met Leu Thr Gly His Ile Met Phe Gln Gln Ala Gly Leu
145     150     155     160
Ile Ala Val Ser Leu Tyr Ile Phe Gly Tyr Pro Met Trp Thr Thr Val
165     170     175
Ile Cys Thr Ala Val Leu Val Ser Leu Tyr Trp Gly Ile Thr Ser Asn
180     185     190
Met Met Tyr Lys Pro Thr Gln Asp Val Thr Asp Gly Cys Gly Phe Ser
195     200     205
Ile Gly His Gln Gln Gln Phe Ala Ser Trp Ile Ala Tyr Lys Val Ala
210     215     220
Pro Tyr Leu Gly Lys Lys Glu Glu Ser Val Glu Asp Leu Lys Leu Pro
225     230     235     240
Gly Trp Leu Asn Ile Phe His Asp Asn Ile Val Ser Thr Ala Ile Val
245     250     255
Met Thr Ile Phe Phe Gly Ala Met Ser Ser His Thr
260     265

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<210> 5888

<211> 130

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (130)

<400> 5888

```

Thr Arg Arg Ser Ser Leu Pro Arg Gly His Asp Met Arg Gly Asp Cys
1      5      10      15
Arg Arg Cys Gln Pro Ala Ser Val Arg Gly Phe Ile Thr Cys Thr Ser
20      25      30
Glu Asn Ala Asp Pro Arg Ala Asp Arg Glu Glu Pro Met Ile Pro Leu
35      40      45
Pro Ser Gly Thr Arg Ile Trp Leu Val Ala Gly Val Thr Asp Met Arg
50      55      60
Lys Ser Phe Asn Gly Leu Gly Glu Leu Val Gln His Val Leu Asp Asp
65      70      75      80

```

Asn Pro Phe Ser Gly His Leu Phe Ile Phe Arg Gly Arg Lys Gly Asp
 85 90 95
 Thr Val Arg Ile Leu Trp Ala Asp Ala Asp Gly Leu Cys Leu Phe Thr
 100 105 110
 Arg Pro Leu Glu Glu Gly Leu Ser Thr Arg Arg Asp Gly Arg Glu Lys
 115 120 125
 Val Xaa
 130

<210> 5889

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 5889

Trp Thr Leu Ser Met Ser Asn Thr Leu Gln Pro Arg Arg Ala Arg Ala
 1 5 10 15
 Ser Tyr Ser Met Asp Phe Lys Leu Ala Leu Val Glu Lys Ser Tyr Gln
 20 25 30
 Pro Gly Ala Cys Val Ala Arg Leu Ala Arg Asp Asn Gly Ile Asn Asp
 35 40 45
 Asn Leu Leu Phe Thr Trp Arg Gln Arg Tyr Arg His Leu Leu Pro Asp
 50 55 60
 Glu Ile Gln Arg Ser Ile Arg Glu Gln Asp Ser Val Ile Pro Val Val
 65 70 75 80
 Leu Pro Asp Met Ala Leu Ser His His Ala Glu Pro His Tyr Glu Pro
 85 90 95
 Ala Ala Pro Ala Cys Arg Glu Ala Met Thr Cys Glu Val Thr Val Gly
 100 105 110
 Gly Ala Ser Leu Arg Leu Ser Gly Asp Leu Ser Pro Ala Leu Leu Lys
 115 120 125
 Thr Leu Ile Arg Glu Leu Thr Gly Arg Ser Arg
 130 135 140

<210> 5890

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 5890

Ser Gly Ala Val Met Met Asn Lys Leu Gln Glu Arg Tyr Ala Arg Ile
 1 5 10 15
 Ile Ala Ile Met Asn Asn Lys Gly Gly Pro Gly Lys Thr Ser Ser Ala
 20 25 30
 Thr Asn Leu Ala Val His Tyr Ala Arg Ser Gly Lys Arg Thr Leu Leu
 35 40 45
 Ile Asp Ser Asp Gln Gln Ala Asn Thr Thr Glu Val Thr Ala Asn Gly
 50 55 60
 Lys Lys Tyr Tyr Ser Met Tyr Gly Pro Thr Ile Cys Asp Leu Tyr Ser
 65 70 75 80
 Asn Ser Arg Phe Asp Ile Arg Asp Val Ile Ile Pro Ala Met Ala Gly
 85 90 95
 Asp Ala Pro Ile Pro Asn Leu Asp Leu Ile Pro Ser Asp Pro Thr Phe
 100 105 110
 Glu Lys Ile Ile Glu Gln Thr Leu Thr Arg Ser His Arg Glu Lys Ile
 115 120 125
 Leu Gly Arg His Leu Glu Lys Val Arg Thr Glu Tyr Asp Tyr Ile Ile
 130 135 140
 Ile Asp Cys Ala Pro Gly Leu Asn Ile Ala Thr Gly Asn Ala Ile Phe
 145 150 155 160
 Ile Ala Asp His Val Leu Val Pro Val Asp Gly Gly Ser Phe Ser Leu

Ser Gly Leu Glu Ile Met Leu Asp Tyr Met Asp Glu Ile Ser Glu Glu
 165 170 175
 180 185 190
 Asp Tyr Ala Arg Phe Ser Val Phe Thr Thr Glu Arg Asp Gly Ser Ala
 195 200 205
 Leu Glu Tyr
 210

<210> 5891

<211> 404

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (28)

<400> 5891

Thr Cys Phe Ile Leu Gly Ala Asn Met Asp Arg Val Ser His Phe Val
 1 5 10 15
 Leu Ala Leu Val Val Val Thr Ala Leu Ala Leu Xaa Val Ser Thr Asp
 20 25 30
 Arg Lys Lys Ile Arg Met Arg Tyr Val Val Gln Leu Leu Val Ile Glu
 35 40 45
 Val Leu Leu Ala Trp Phe Phe Leu Asn Ser Asn Val Gly Leu Gly Phe
 50 55 60
 Val Lys Gly Phe Ser Glu Met Phe Glu Lys Leu Leu Gly Phe Ala Asn
 65 70 75 80
 Glu Gly Thr Asn Phe Val Phe Gly Ser Met Asn Asp Gln Gly Leu Ala
 85 90 95
 Phe Phe Phe Leu Lys Val Leu Cys Pro Ile Val Phe Ile Ser Ala Leu
 100 105 110
 Ile Gly Ile Leu Gln His Ile Arg Val Leu Pro Val Val Ile Arg Ala
 115 120 125
 Ile Gly Phe Leu Leu Ser Lys Val Asn Gly Met Gly Lys Leu Glu Ser
 130 135 140
 Phe Asn Ala Val Ser Ser Leu Ile Leu Gly Gln Ser Glu Asn Phe Ile
 145 150 155 160
 Ala Tyr Lys Asp Ile Leu Gly Lys Met Ser Arg Asn Arg Met Tyr Thr
 165 170 175
 Met Ala Ala Thr Ala Met Ser Thr Val Ser Met Ser Ile Val Gly Ala
 180 185 190
 Tyr Met Thr Met Leu Glu Pro Lys Tyr Val Val Ala Ala Leu Val Leu
 195 200 205
 Asn Met Phe Ser Thr Phe Ile Val Leu Ser Leu Ile Asn Pro Tyr Arg
 210 215 220
 Val Asp Ala Ser Glu Glu Asn Ile Gln Met Ser Asn Leu His Glu Gly
 225 230 235 240
 Gln Ser Phe Phe Glu Met Leu Gly Glu Tyr Ile Leu Ala Gly Phe Lys
 245 250 255
 Val Ala Ile Ile Val Ala Ala Met Leu Ile Gly Phe Ile Ala Leu Ile
 260 265 270
 Ala Ala Leu Asn Ala Leu Phe Ala Ala Val Leu Gly Ile Ser Phe Gln
 275 280 285
 Gly Ile Leu Gly Tyr Ile Phe Tyr Pro Val Ala Trp Val Met Gly Val
 290 295 300
 Pro Ala His Glu Ala Leu Gln Val Gly Ser Ile Met Ala Thr Lys Leu
 305 310 315 320
 Val Ser Asn Glu Phe Val Ala Met Met Asp Leu Gln Lys Ile Ala Ser
 325 330 335
 Thr Leu Ser Pro Arg Ala Glu Gly Ile Leu Ser Val Phe Leu Val Ser

```

          340          345          350
Phe Ala Asn Phe Ser Ser Ile Gly Ile Ile Ala Gly Ala Ile Lys Gly
          355          360          365
Leu Asn Glu Glu Gln Gly Asn Val Val Ser Arg Phe Gly Leu Lys Leu
          370          375          380
Val Tyr Gly Ser Thr Leu Val Ser Val Leu Ser Ala Ser Ile Ala Ala
          385          390          395          400
Leu Val Leu

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<210> 5892

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 5892

```

Asn Leu Glu Ile Pro Ile Pro Gly Trp Lys Ser Asp Trp Arg Asp His
1          5          10          15
Pro Pro Leu Thr Val Leu Phe Pro Val Ile Gly His Leu Asn Leu Ser
          20          25          30
Asn Arg Leu Asn Leu Lys Leu Leu Glu Lys Leu Leu Met Trp Met Arg
          35          40          45
Ser Asn Arg Ser Gly Arg Ala Gly Thr Arg Phe Ser Val Asn Leu Met
          50          55          60
Pro Leu Thr Leu Met Gln Asn Glu Ile Ala Ala Glu Ile Ile Ala Leu
          65          70          75          80
Phe Glu Arg Tyr Ala Ile Ala Pro Gln Asn Ile Ile Ile Glu Ile Thr
          85          90          95
Glu Glu Gln Ala Phe Ser Asp Ser Gly Ser Ser Ile Lys Asn Ile Gln
          100          105          110
Gln Leu Arg Asp Tyr Gly Phe Arg Ile Ala Ile Asp Asp Phe Gly Thr
          115          120          125
Gly Tyr Ala Asn Phe Glu Arg Leu Lys Arg Leu Glu Ala Asp Ile Ile
          130          135          140
Lys Ile Asp Gly Cys Phe Val Lys Asp Ile Cys Thr Asp Ser Met Asp
          145          150          155          160
Ala Met Ile Val Gln Ser Ile Cys Asn Met Ala Lys Thr Lys Ser Leu
          165          170          175
Cys Val Val Ala Glu Tyr Val Glu Thr Ala Glu Gln Arg Glu Met Leu
          180          185          190
Leu Arg Phe Gly Val Asp Tyr Leu Gln Gly Tyr Leu Ile Gly Lys Pro
          195          200          205
Gln Pro Leu Thr Ala Leu Glu Ala
          210          215

```

<210> 5893

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 5893

```

Tyr Met Asp Gln Ala Gly Ile Ile Arg Asp Leu Leu Thr Trp Leu Glu
1          5          10          15
Gly His Leu Asp Gln Pro Leu Ser Leu Asp Asn Val Ala Ala Lys Ala
          20          25          30
Gly Tyr Ser Lys Trp Trp His Leu Gln Arg Met Phe Lys Asp Val Thr Gly
          35          40          45
His Ala Ile Gly Ala Tyr Ile Arg Ala Arg Arg Leu Ser Lys Ser Ala
          50          55          60
Val Ala Leu Arg Leu Thr Ala Arg Pro Ile Leu Asp Ile Ala Leu Gln
          65          70          75          80

```

Tyr Arg Phe Asp Ser Gln Gln Thr Phe Thr Arg Ala Phe Lys Lys Gln
 85 90
 Phe Ser Leu Thr Pro Ala Leu Tyr Arg Arg Ser Pro Asp Trp Ser Ser
 100 105
 Phe Gly Met Arg Pro Pro Leu Arg Leu Gly Glu Phe Ala Met Pro Lys
 115 120 125
 Tyr Glu Ile Ile Thr Leu Pro Glu Thr His Leu Val Gly Thr Thr Gln
 130 135 140
 Ser Tyr Ser Cys Ser Leu Glu Gln Ile Ser Glu Phe Arg His Gln Met
 145 150 155 160
 Arg Val Gln Phe Trp Arg Glu Phe Leu Ser His Ala Pro Ala Ile Pro
 165 170 175
 Pro Ile Leu Tyr Gly Leu Asn Glu Thr His Pro Ser Gln Glu Lys Asp
 180 185 190
 Asp Glu Gln Glu Val Phe Tyr Thr Thr Ala Leu Thr Pro Asp Met Ala
 195 200 205
 Asn Gly Tyr Ile His Gly Ser Lys Pro Val Val Leu Glu Gly Gly Glu
 210 215 220
 Tyr Val Met Phe Ser Tyr Glu Gly Leu Gly Thr Gly Val Gln Glu Phe
 225 230 235 240
 Ile Leu Thr Val Tyr Gly Thr Cys Met Pro Met Leu Asn Leu Asn Arg
 245 250 255
 Arg Lys Gly Gln Asp Ile Glu Arg Tyr Tyr Pro Ala Gln Asp Ala Lys
 260 265 270
 Pro Glu Glu Gly Pro Ile Asn Leu Arg Met Glu Phe Leu Ile Pro Val
 275 280 285
 Arg Arg
 290

<210> 5894

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 5894

Leu Met Glu Ser Glu Ala Arg Arg Phe Ile Ala Leu Val Asp Glu Phe
 1 5 10 15
 Tyr Glu Arg His Val Lys Leu Val Val Ser Ala Glu Val Pro Leu Tyr
 20 25 30
 Glu Ile Tyr Gln Gly Glu Arg Leu Lys Ser Glu Phe Gln Arg Cys Leu
 35 40 45
 Ser Arg Leu Gln Glu Met Gln Ser Glu Glu Tyr Leu Lys Arg Glu His
 50 55 60
 Met Pro
 65

<210> 5895

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 5895

Gly Pro Pro Thr Arg Pro Val Lys Arg Pro Lys Leu Asp Glu Asp Glu
 1 5 10 15
 Ile Gly Gln Arg Leu Leu Ser Ile Pro Cys Val Gly Thr Leu Thr Ala
 20 25 30
 Ser Thr Ile Ser Thr Glu Ile Gly Asp Gly Lys Gln Tyr Ala Ser Ser
 35 40 45
 Arg Asp Phe Ala Ala Ala Thr Gly Leu Val Pro Arg Gln Tyr Ser Thr
 50 55 60
 Gly Gly Arg Thr Thr Leu Leu Gly Ile Ser Lys Arg Gly Asn Lys Lys

```

65      70      75      80
Ile Arg Thr Leu Leu Val Gln Cys Ala Arg Val Phe Ile Gln Lys Leu
      85      90      95
Glu His Gln Ser Gly Lys Leu Ala Asp Trp Val Arg Asp Leu Leu Cys
      100      105      110
Arg Lys Ser Asn Phe Val Val Thr Cys Ala Leu Ala Asn Lys Leu Ala
      115      120      125
Arg Ile Ala Trp Ala Leu Thr Ala Arg Gln Gln Thr Tyr Val Ala
      130      135      140

```

<210> 5896
 <211> 294
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 5896
Lys Gly Leu Leu Val Met Gln Glu Gln Glu Ile Trp Thr Pro Gln Lys
1      5      10      15
Ala Ala Ile Arg Leu Thr Lys Ile Cys Asp Thr Phe Ser Glu Ile His
      20      25      30
Gly Thr Glu Arg Phe Pro Val Asn Val Glu Glu Leu Ser Leu Glu Ala
      35      40      45
Ala Glu Leu Phe Lys Trp Ala Asp Pro Ile Val Lys Ile Glu Pro Val
      50      55      60
Asp Ile Lys Gly Phe Asp Gly Ala Leu Met Ala Asn Glu Ser Arg Ser
65      70      75      80
Arg Trp Met Leu Leu Tyr Asn Asn Gly Leu Thr Ser Pro Gly Arg Ile
      85      90      95
Arg Phe Thr Gln Ala His Glu Leu Gly His Tyr Ile Leu His Arg Leu
      100      105      110
Ile Arg Asp Glu Phe Arg Cys Ser Ser Asp Asp Met Leu Ser Trp Glu
      115      120      125
Asp Lys Asn Ile Glu Ser Glu Ala Asp Leu Phe Ala Ser Tyr Leu Leu
      130      135      140
Met Pro Phe Asn Asp Phe Arg Lys Gln Leu Thr Pro Asp Val Asp Ile
145      150      155      160
Asp Val Leu Ser Gln Tyr Ala Ile Arg Tyr Gly Val Ser Leu Thr Ala
      165      170      175
Ala Ala Leu Lys Trp Leu Glu Cys Thr Glu Glu Asn Ala Val Phe Ile
      180      185      190
Leu Ser Arg Asp Gly Tyr Met Lys Trp Ala Phe Ser Ser Pro Ala Ala
      195      200      205
Arg His Asn Gly Ala Phe Phe Arg Thr Gln Arg Asn Val Val Ser Ile
      210      215      220
Pro Glu Gly Ser Ile Ala Ala Asn Gln Asn Ile Ser Met Glu Arg Ala
225      230      235      240
Gly Met Lys Ile Pro Ala Ser Ile Trp Phe Pro His Ala Asp Lys Asp
      245      250      255
Ala Ser Val Arg Glu Met Lys Ile His Ser Glu Gln Tyr Glu Tyr Val
      260      265      270
Ile Thr Leu Leu Ile Leu Ser Arg Lys Thr Thr Val Trp Pro Pro Phe
      275      280      285
His Gly Glu Asp Glu
      290

```

<210> 5897
 <211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 5897

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75 80
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95
 Tyr

<210> 5898

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 5898

Arg Gly Ala Ser Gly Gly Ser Trp Ala Lys Val Leu Thr Thr Asp Gln
 1 5 10 15
 Lys Arg Glu Thr Val Met Leu Met Cys Asp Ala Asn Gly Leu Ser Gln
 20 25 30
 Arg Arg Ala Cys Arg Leu Thr Gly Phe Ile Leu Ser Thr Cys Arg Tyr
 35 40 45
 Glu Ala Gln Arg Pro Ala Ala Asp Ala His Leu Ser Gly Arg
 50 55 60

<210> 5899

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 5899

Asn Leu Asn Phe Cys His Ile Ser Leu Thr Val Leu Ser Ala Met Asn
 1 5 10 15
 Ile Thr Glu Leu Val Phe Ile Asp Asp Tyr Asn His Val Val Ile
 20 25 30
 Met Ser Asp Val Val Gln Arg Leu His Leu Tyr Arg Gln Leu His Tyr
 35 40 45
 Ala Ser Thr Glu Ala Gly Gly Thr Leu Ile Gly Glu Arg Arg Gly Lys
 50 55 60
 His Ile Val Ile Thr His Ile Ser Glu Pro Gly Ser Gly Asp Val Arg
 65 70 75 80
 Ser Arg Thr Arg Ile Glu Arg Lys Gly Glu His His Gln Gln Lys Val
 85 90 95
 Asp Asp Leu Phe Gln Gln Ser Asp Gly Ser Leu Val Tyr Leu Gly Glu
 100 105 110
 Trp His Thr His Pro Glu Asp Phe Pro Gln Pro Ser Ser Thr Asp Met
 115 120 125
 Arg Ser Trp Arg Thr Gly Leu Lys Ala Thr Glu Pro Met Val Leu Leu
 130 135 140
 Ile Met Gly Arg Lys Gln Ala Trp Cys Gly Lys Lys His Gly Asn Val
 145 150 155 160
 Ile Lys Lys Leu Glu Glu Lys Asn Asn His
 165 170

<210> 5900

<211> 374

<212> PRT

<213> *Enterobacter cloacae*

<400> 5900

```

Ile Met Val Cys His Met Thr Pro Pro Val Ala Leu Phe Lys Gly Cys
1      5      10      15
Val Met Gln Asp Leu His Ser Lys Asp Ser Val Ile Asn His Tyr Ala
20      25      30
Asp Arg Tyr Gln Cys Tyr Met Pro Ile Asp Val Arg Asn Gly Leu Arg
35      40      45
Ser Asn Ser Ile Asp Ala Ser Asn Ser Ser Leu Pro Trp Asp Val Thr
50      55      60
Leu Pro Leu Val Thr Thr Glu Asp Val Ser Arg Asp Lys Ala Leu Gly
65      70      75      80
Ala Phe Val Gly Leu Ala Val Gly Asp Ala Val Gly Thr Thr Leu Gly
85      90      95
Phe Lys Lys Arg Asp Ser Glu His Val Ala Asp Met Ile Gly Gly Gly
100      105      110
Pro Phe Gln Leu Lys Pro Gly Glu Trp Thr Asp Asp Thr Ser Met Ala
115      120      125
Leu Cys Leu Ala Glu Thr Tyr Leu Ser Glu Asn Arg Met His Thr Asp
130      135      140
Val Leu Arg Lys Tyr Leu Leu Lys Trp Tyr Leu Asp Gly Glu Asn Ser
145      150      155      160
Ser Asn Gly Arg Cys Phe Asp Ile Gly Asn Thr Thr Arg Phe Ala Leu
165      170      175
Glu Gln Tyr Met Arg Val Gly Pro Ser Trp Tyr Gly Asn Thr Glu Lys
180      185      190
His Thr Ala Gly Asn Ala Gly Val Ile Arg Gln Ala Pro Val Ser Ile
195      200      205
Phe Arg Arg Lys Ser Leu Arg Ala Ile Tyr Phe Glu Ser Gln Ala Gln
210      215      220
Ser Arg Ala Thr His Gly Ala Val Glu Ser Ile Asn Ala Cys Gln Phe
225      230      235      240
Leu Gly Leu Val Leu His Tyr Leu Ile Asn Gly Tyr Gln Lys Glu Gly
245      250      255
Ala Phe Ser Pro His Val Phe Pro Leu Cys Ala Arg Val Met Ile Ile
260      265      270
Asn Ala Gly Glu Tyr Lys Gln Lys Thr Arg Asp Gln Ile Arg Ser Ser
275      280      285
Gly Tyr Val Ile Asp Thr Leu Glu Ala Ala Met Trp Ser Val Trp Asn
290      295      300
Thr Asp Asn Phe Arg Asp Ala Ile Leu Leu Ala Ala Asn Leu Ala Asp
305      310      315      320
Asp Ala Asp Ser Val Ala Ala Thr Ala Gly Gln Ile Ala Gly Ala Leu
325      330      335
Tyr Gly Tyr Ser Ala Ile Pro Gln Asp Trp Lys Asp Lys Leu Val Gln
340      345      350
His Glu Arg Ile Ala Thr Met Ala Gly Lys Leu Phe Asp Arg Ala Pro
355      360      365
Glu Asp Asn Phe Leu
370

```

<210> 5901

<211> 83

<212> PRT

<213> *Enterobacter cloacae*

<400> 5901

```

Phe Asp Thr Ser Gln Val Arg Met Arg Thr Met Lys Lys Trp Ala Val
1      5      10      15

```

```

Ile Ile Ser Ala Val Gly Leu Ala Phe Ala Val Ser Gly Cys Ser Ser
      20      25      30
Asp Tyr Val Met Ser Thr Lys Asp Gly Arg Met Ile Leu Thr Asp Gly
      35      40      45
Lys Pro Glu Val Asp Asp Asp Thr Gly Leu Val Ser Tyr Arg Asp Arg
      50      55      60
Glu Gly Asn Gln Met Gln Ile Asn Arg Asp Glu Val Ser Gln Ile Ile
      65      70      75      80
Glu Arg

```

```

<210> 5902
<211> 153
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 5902
Lys Arg Lys Pro Ala Met His Tyr His Arg Ile Pro His Ser Ala Leu
1      5      10      15
Glu Ile Ser Gln Leu Gly Leu Gly Thr Met Thr Phe Gly Glu Gln Asn
      20      25      30
Ser Glu Ala Asp Ala His Ala Gln Leu Asp Tyr Ala Val Ser Gln Gly
      35      40      45
Ile Asn Leu Ile Asp Val Ala Glu Met Tyr Pro Val Pro Pro Arg Pro
      50      55      60
Glu Thr Gln Gly Leu Thr Glu Thr Tyr Val Gly Asn Trp Leu Ala Lys
      65      70      75      80
Arg Gly Asn Arg Glu Lys Leu Val Ile Ala Ser Lys Val Ser Gly Pro
      85      90      95
Ser Arg Asn Asn Asp Ala Gly Ile Arg Pro Asn Gln Ile Leu Asp Arg
      100      105      110
Lys Asn Ile Arg Ala Ala Leu Asp Ala Ser Leu Lys Arg Leu Gln Thr
      115      120      125
Asp Tyr Leu Asp Leu Tyr His Val His Trp Pro Gln Arg Pro Thr Asn
      130      135      140
Cys Phe Gly Lys Leu Gly Tyr Thr
      145      150

```

```

<210> 5903
<211> 108
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 5903
Asn Glu Ser Ala Pro Ala Val Thr Leu Leu Glu Thr Leu Glu Thr Leu
1      5      10      15
Thr Glu Cys Gln Arg Ala Gly Lys Ile Arg Tyr Ile Gly Val Ser Asn
      20      25      30
Glu Thr Ala Phe Gly Val Met Arg Tyr Leu His Leu Ala Asp Lys His
      35      40      45
Asp Leu Pro Arg Ile Val Thr Ile Gln Asn Pro Tyr Ser Leu Leu Lys
      50      55      60
Arg Ser Tyr Glu Val Gly Leu Ala Glu Val Thr Gln Tyr Glu Glu Val
      65      70      75      80
Glu Leu Leu Pro Gln Leu Leu Ser Gly Leu Arg Tyr Pro Asp Gly Gln
      85      90      95
Ile Pro Glu Arg Arg Glu Thr Gly Trp Arg Ala
      100      105

```

```

<210> 5904
<211> 243

```

<212> PRT

<213> *Enterobacter cloacae*

<400> 5904

```

Asn Ile Ser Ser Phe Phe Asn Gln Lys Val Val Ser Met His Ser Leu
1      5      10
Ala Pro Leu Leu Ser Pro Pro Val Ser Glu Ala Gln Leu Leu Gln Gln
20      25      30
Ala Gln Arg Leu Ala Gly Tyr Ser Leu Gly Glu Leu Ala Val Met Ala
35      40      45
Gly Leu Thr Ile Pro Asn Asp Leu Lys Arg Asp Lys Gly Trp Ile Gly
50      55      60
Val Leu Leu Glu Arg Trp Leu Gly Ala Ser Ala Gly Ser Lys Pro Glu
65      70      75
Gln Asp Phe Ala Ala Leu Gly Val Glu Leu Lys Thr Ile Pro Ile Asp
85      90      95
Ser Gln Gly Arg Pro Leu Glu Thr Thr Phe Val Cys Val Ala Pro Leu
100     105     110
Thr Gly Asn Ser Gly Val Thr Trp Glu Thr Ser His Val Arg His Lys
115     120     125
Leu Lys Arg Val Leu Trp Val Pro Val Glu Gly Asp Arg Gln Ile Pro
130     135     140
Leu Ala Glu Arg Arg Val Gly Ala Pro Leu Leu Trp Ser Pro Asn Asp
145     150     155
Glu Glu Glu Arg Leu Leu Ser Gln Asp Trp Glu Leu Met Asp Met
165     170     175
Ile Val Leu Gly Gln Val Glu Arg Ile Thr Ala Arg His Gly Glu Met
180     185     190
Leu Gln Leu Arg Pro Lys Ala Ala Asn Ser Lys Ala Leu Thr Glu Ala
195     200     205
Val Cys Ala Gln Gly Glu Pro Ile Leu Thr Leu Pro Arg Gly Phe Tyr
210     215     220
Leu Lys Lys Asn Phe Thr Gly Ala Leu Leu Ala Arg His Phe Leu Leu
225     230     235
Lys Thr
240

```

<210> 5905

<211> 125

<212> PRT

<213> *Enterobacter cloacae*

<400> 5905

```

Arg Ser Thr Lys Arg Trp Ser Cys Ser Pro Asn Ser Cys Leu Gly Phe
1      5      10
Gly Thr Leu Thr Gly Lys Tyr Leu Asn Gly Ala Lys Pro Ala Gly Ala
20      25      30
Arg Asn Thr Leu Phe Ser Arg Phe Thr Arg Tyr Ser Gly Glu Gln Thr
35      40      45
Gln Lys Ala Val Ala Ala Tyr Val Asp Ile Ala Lys Arg His Gly Leu
50      55      60
Asp Pro Ala Gln Met Ala Leu Ala Phe Val Arg Arg Gln Pro Phe Val
65      70      75
Ala Ser Thr Leu Leu Gly Ala Thr Thr Met Asp Gln Leu Lys Thr Asn
85      90      95
Ile Glu Ser Phe Asn Leu Asn Leu Ser Glu Glu Val Leu Ala Glu Ile
100     105     110
Glu Ala Val His Gln Val Tyr Thr Tyr Pro Ala Pro
115     120     125

```

<210> 5906

<211> 118
 <212> PRT
 <213> Enterobacter cloacae

<400> 5906

```

Thr Val Ala Arg Cys Met Pro Ala Gly Ile Val Ile Gly Val Gly Val
1      5      10      15
Leu Phe Phe Ser Leu Gln His Ala Leu Leu Pro Ala Tyr Ala Leu Leu
20      25      30
Leu Leu Ile Gly Met Leu Gly Gly Phe Phe Val Val Pro Leu Asn Ala
35      40      45
Leu Leu Gln Glu Arg Gly Lys Gln Thr Val Gly Ala Gly Asn Ala Ile
50      55      60
Ala Val Gln Asn Leu Gly Glu Asn Met Ala Met Leu Leu Met Leu Gly
65      70      75      80
Ile Tyr Ser Leu Ala Val Lys Ala Gly Ala Pro Val Val Ala Ile Gly
85      90      95
Val Gly Phe Gly Ala Leu Phe Ala Leu Ala Ile Ser Gly Leu Trp Val
100      105      110
Trp Gln Arg Arg Arg
115

```

<210> 5907
 <211> 305
 <212> PRT
 <213> Enterobacter cloacae

<400> 5907

```

Ser Pro Gly Gly Gly Met Met Arg Met Lys Arg Asn Leu Lys Ala Ile
1      5      10      15
Pro Val Leu Val Ala Gly Leu Phe Thr Ser Gln Leu Ser Ile Ala Ala
20      25      30
Gly Ser Val Ser Ala Asp Pro His Ala Gly His Asp Met Ser Ala Met
35      40      45
Gln Met Pro Ala Asp Glu Asn Phe Thr Glu Met Thr Ser Met Glu Pro
50      55      60
Ile Val Thr Glu Ser Arg Thr Pro Ile Pro Pro Val Thr Asp Ala Asp
65      70      75      80
Arg Lys Ala Ala Phe Gly Asn Leu Gln Gly His Ala Ile His Asp Ser
85      90      95
Ala Ile Asn Tyr Leu Val Leu Leu Asp Gln Leu Glu Trp Gln Arg Ser
100      105      110
Asp Asn Thr Asn Asn Phe Ser Trp Ser Val Asn Ser Trp Ile Gly Gly
115      120      125
Asp Thr Asp Arg Ile Trp Leu Lys Ser Glu Gly Glu Arg Ser Asn Gly
130      135      140
Glu Thr Glu Ala Ala Glu Ala Gln Leu Leu Trp Gly His Ala Val Gly
145      150      155      160
Pro Trp Trp Asp Leu Val Ala Gly Val Arg Gln Asp Phe Arg Pro Ala
165      170      175
Ser Ala Arg Thr Trp Ala Ala Val Gly Phe Gln Gly Leu Ala Leu Tyr
180      185      190
Asn Phe Glu Ser Glu Ile Thr Gly Phe Val Ser Asn Gly Gly Lys Ala
195      200      205
Ala Leu Arg Leu Gly Gly Glu Tyr Asp Val Leu Leu Thr Asn Arg Leu
210      215      220
Ile Leu Gln Pro Ser Tyr Glu Val Asn Phe Tyr Ser Gln Asp Asp Glu
225      230      235      240
Ser Arg Gly Arg Gly Arg Gly Leu Thr Asp Thr Glu Leu Gly Leu Arg
245      250      255
Leu Arg Tyr Glu Ile Arg Arg Glu Phe Ala Pro Tyr Ile Gly Val Ser

```

260 265 270
 Trp Asn Gln Leu Tyr Gly Lys Thr Ser Asp Met Ala Lys Arg Glu Gly
 275 280 285
 Glu Lys Asp His Gln Val Val Phe Leu Ala Gly Ala Arg Ile Trp Phe
 290 295 300

305

<210> 5908

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 5908

Arg Thr Asp Ile Lys His Ser Thr Lys Gln Val Asn Lys Met Ser Ile
 1 5 10 15
 Leu Asn Lys Ala Ile Leu Thr Gly Gly Leu Val Met Gly Val Ala Phe
 20 25 30
 Ser Ala Met Ala His Pro Glu Leu Lys Ser Ser Val Pro Gln Ala Asp
 35 40 45
 Ser Ala Val Ala Ala Pro Glu Lys Ile Gln Leu Asn Phe Ser Glu Asn
 50 55 60
 Leu Thr Val Lys Phe Ser Gly Ala Lys Leu Thr Met Thr Gly Met Lys
 65 70 75 80
 Gly Met Ser Ser His Ser Pro Met Pro Val Ala Ala Lys Val Ala Pro
 85 90 95
 Gly Ala Asp Pro Lys Ser Met Val Ile Ile Pro Arg Glu Pro Leu Pro
 100 105 110
 Ala Gly Thr Tyr Arg Val Asp Trp Arg Ala Val Ser Ser Asp Thr His
 115 120 125
 Pro Ile Thr Gly Asn Tyr Thr Phe Thr Val Lys
 130 135 140

<210> 5909

<211> 491

<212> PRT

<213> Enterobacter cloacae

<400> 5909

Lys His Phe Met Gly Val Gln Pro Asp Asp Thr Tyr Val Tyr Thr Phe
 1 5 10 15
 Lys Val Lys Gln Asn Gly Thr Tyr Trp Tyr His Ser His Ser Gly Leu
 20 25 30
 Gln Glu Gln Glu Gly Val Tyr Gly Ala Ile Ile Ile Asp Ala Gly Glu
 35 40 45
 Pro Glu Pro Phe Thr Tyr Asp Arg Glu His Val Val Met Leu Ser Asp
 50 55 60
 Trp Thr Asp Glu Asn Pro His Ser Leu Leu Lys Lys Leu Lys Lys Gln
 65 70 75 80
 Ser Asp Tyr Tyr Asn Phe Asn Lys Pro Thr Val Gly Ser Phe Phe Arg
 85 90 95
 Asp Val Asn Thr Arg Gly Leu Ser Ala Thr Ile Ala Asp Arg Lys Met
 100 105 110
 Trp Ala Glu Met Lys Met Asn Pro Thr Asp Leu Ala Asp Val Ser Gly
 115 120 125
 Tyr Thr Tyr Thr Tyr Leu Met Asn Gly Gln Ala Pro Leu Lys Asn Trp
 130 135 140
 Thr Gly Leu Phe Arg Pro Gly Glu Lys Ile Arg Leu Arg Phe Ile Asn
 145 150 155 160
 Gly Ser Ala Met Thr Tyr Phe Asp Ile Arg Ile Pro Gly Leu Lys Met
 165 170 175

Thr Val Val Ala Ala Asp Gly Gln Tyr Val Asn Pro Val Thr Val Asp
 180 185 190
 Glu Phe Arg Ile Ala Val Ala Glu Thr Tyr Asp Val Ile Val Glu Pro
 195 200 205
 Gln Gly Glu Ala Tyr Thr Ile Phe Ala Gln Ser Met Asp Arg Thr Gly
 210 215 220
 Tyr Ala Arg Gly Thr Leu Ala Thr Arg Glu Gly Leu Ser Ala Ala Val
 225 230 235 240
 Pro Pro Leu Asp Pro Arg Pro Leu Leu Thr Met Glu Asp Met Gly Met
 245 250 255
 Gly Gly Met Gly His Asp Met Ala Gly Met Asp His Ser Gln Met Gly
 260 265 270
 Gly Met Asp Asn Ser Gly Glu Met Met Ser Met Asp Gly Ala Asp Leu
 275 280 285
 Pro Asp Ser Gly Thr Ser Ser Ala Pro Met Asp His Ser Ser Met Ala
 290 295 300
 Gly Met Asp His Ser Arg Met Ala Gly Met Pro Gly Met Gln Ser His
 305 310 315 320
 Pro Ala Ser Glu Thr Asp Asn Pro Leu Val Asp Met Gln Ala Met Ser
 325 330 335
 Val Ser Pro Lys Leu Asn Asp Pro Gly Ile Gly Leu Arg Asn Asn Gly
 340 345 350
 Arg Lys Val Leu Thr Tyr Ala Asp Leu Lys Ser Arg Phe Glu Asp Pro
 355 360 365
 Asp Gly Arg Glu Pro Gly Arg Thr Ile Glu Leu His Leu Thr Gly His
 370 375 380
 Met Glu Lys Phe Ala Trp Ser Phe Asn Gly Ile Lys Phe Ser Asp Ala
 385 390 395 400
 Ala Pro Val Leu Leu Lys Tyr Gly Glu Arg Leu Arg Ile Thr Leu Ile
 405 410 415
 Asn Asp Thr Met Met Thr His Pro Ile His Leu His Gly Met Trp Ser
 420 425 430
 Asp Leu Glu Asp Glu Asn Gly Asn Phe Met Val Arg Lys His Thr Ile
 435 440 445
 Asp Val Pro Pro Gly Thr Lys Arg Ser Tyr Arg Val Thr Ala Asp Ala
 450 455 460
 Leu Gly Arg Trp Ala Tyr His Cys His Leu Leu Tyr His Met Glu Met
 465 470 475 480
 Gly Met Phe Arg Glu Val Arg Val Glu Glu
 485 490

<210> 5910

<211> 91

<212> FRT

<213> *Enterobacter cloacae*

<400> 5910

Ser Asn Ile Met Asn Asp Leu Ile Met Ile Val Ile Arg Phe Leu Leu
 1 5 10 15
 Tyr Leu Asp Leu Met Val Ile Phe Gly Leu Pro Phe Phe Gln Ile Tyr
 20 25 30
 Gly Ile Ser Gly Val Arg His Glu Thr Tyr Asn Leu Thr Asn Phe Arg
 35 40 45
 Ser Phe Ile Thr Phe Ala Val Val Thr Gly Ile Ile Leu Thr Gly Ile
 50 55 60
 Asn Met Leu Leu Val Ser Asn Ala Met Ser Gly Val Thr Asp Leu Arg
 65 70 75 80
 Glu Leu Ser Ile His Val Ile Glu Met Val Ile
 85 90

<210> 5911

<211> 454

<212> PRT

<213> *Enterobacter cloacae*

<400> 5911

Thr Asn Ser Asn Ser Ser Gln Val Asn Phe Tyr Tyr Ile Gln Gly Ser
 1 5 10 15
 His Ala Ala Leu Ser Gly Gly Phe Met Leu Leu Ala Gly Ala Ile Phe
 20 25 30
 Ile Leu Thr Ile Val Leu Val Ile Trp Gln Pro Lys Gly Leu Gly Ile
 35 40 45
 Gly Trp Ser Ala Ile Phe Gly Ala Ile Leu Ala Leu Ile Ser Gly Val
 50 55 60
 Val His Ile Thr Asp Ile Leu Val Val Trp Asn Ile Val Trp Asn Ala
 65 70 75 80
 Thr Ala Thr Phe Ile Ala Val Ile Ile Ile Ser Leu Leu Leu Asp Glu
 85 90 95
 Ser Gly Phe Phe Glu Trp Ala Ala Leu His Val Ser Arg Trp Gly Asn
 100 105 110
 Gly Arg Gly Arg Leu Leu Phe Thr Tyr Ile Val Leu Leu Gly Ala Ala
 115 120 125
 Val Ala Ala Leu Phe Ala Asn Asp Gly Ala Ala Leu Ile Leu Thr Pro
 130 135 140
 Ile Val Ile Ala Met Leu Leu Ala Leu Gly Phe Ser Lys Ser Ala Thr
 145 150 155 160
 Leu Ala Phe Val Met Ala Ala Gly Phe Ile Ala Asp Thr Ala Ser Leu
 165 170 175
 Pro Leu Ile Val Ser Asn Leu Val Asn Ile Val Ser Ala Asp Phe Phe
 180 185 190
 His Leu Gly Phe Thr Glu Tyr Ala Ser Val Met Val Pro Val Asp Ile
 195 200 205
 Ala Ala Ile Ile Ala Thr Leu Val Met Leu His Leu Phe Phe Arg Lys
 210 215 220
 Asp Ile Pro Pro Thr Tyr Asp Leu Asn Arg Leu Lys Glu Pro Ala Leu
 225 230 235 240
 Ala Ile Lys Asp Pro Ala Thr Phe Arg Thr Gly Trp Ile Val Leu Ile
 245 250 255
 Leu Leu Leu Val Gly Phe Phe Val Leu Glu Pro Leu Gly Ile Pro Val
 260 265 270
 Ser Ala Ile Ala Ala Val Gly Ala Ala Ile Leu Phe Phe Val Ala Lys
 275 280 285
 Lys Gly His Ala Ile Asn Thr Gly Lys Val Leu Arg Gly Ala Pro Trp
 290 295 300
 Gln Ile Val Ile Phe Ser Leu Gly Met Tyr Leu Val Val Tyr Gly Leu
 305 310 315 320
 Arg Asn Ala Gly Leu Thr Glu Tyr Leu Ser Gly Val Leu Asn Leu Phe
 325 330 335
 Ala Asp Lys Gly Leu Trp Ala Ala Thr Phe Gly Thr Gly Phe Leu Thr
 340 345 350
 Ala Phe Leu Ser Ser Ile Met Asn Asn Met Pro Thr Val Leu Ile Gly
 355 360 365
 Ala Leu Ser Ile Asp Gly Ser Thr Ala Ser Gly Val Ile Lys Glu Ala
 370 375 380
 Met Ile Tyr Ala Asn Val Ile Gly Cys Asp Leu Gly Pro Lys Ile Thr
 385 390 395 400
 Pro Ile Gly Ser Leu Ala Thr Leu Leu Trp Leu His Val Leu Ser Gln
 405 410 415
 Lys Asn Met Thr Ile Thr Trp Gly Tyr Tyr Phe Arg Thr Gly Ile Ile
 420 425 430
 Met Thr Leu Pro Val Leu Phe Val Thr Leu Ala Ala Leu Ala Leu Arg
 435 440 445

Leu Ser Phe Thr Leu
450

<210> 5912
<211> 93
<212> PRT
<213> Enterobacter cloacae

<400> 5912
Asp Thr Asp Met Ser Asn Ile Thr Ile Tyr His Asn Pro Ala Cys Gly
1 5 10 15
Thr Ser Arg Asn Thr Leu Glu Met Ile Arg Asn Ser Gly Thr Glu Pro
20 25 30
Thr Val Ile His Tyr Leu Glu Thr Pro Pro Ser Arg Asp Glu Leu Val
35 40 45
Lys Leu Ile Ala Asp Met Gly Ile Thr Val Arg Ala Leu Leu Arg Lys
50 55 60
Asn Val Glu Pro Phe Glu Ala Leu Gly Leu Ala Glu Asp Arg Phe Thr
65 70 75 80
Asp Asp Gln Leu Ile Asp Phe Met Val Ser Val Lys
85 90

<210> 5913
<211> 112
<212> PRT
<213> Enterobacter cloacae

<400> 5913
Lys Gln Lys Gly His Val Ser Thr Pro Met Met Gln Leu Gln Asp Pro
1 5 10 15
Glu Arg Thr Lys Val Leu Leu Val Thr Leu Pro Glu Thr Thr Pro Val
20 25 30
Leu Glu Ala Ala Asn Leu Gln Ala Asp Leu Glu Arg Ala Gly Ile His
35 40 45
Pro Trp Gly Trp Ile Ile Asn Asn Ser Leu Ser Ile Ala Glu Thr Arg
50 55 60
Ser Pro Leu Leu Arg Gln Arg Ser Gln Gln Glu Leu Pro Gln Ile Glu
65 70 75 80
Ala Val Lys Asn Gln His Ala Thr Arg Val Ala Leu Val Pro Val Leu
85 90 95
Ala Ala Glu Pro Thr Gly Ile Asp Lys Leu Lys Gln Leu Ala Gly
100 105 110

<210> 5914
<211> 213
<212> PRT
<213> Enterobacter cloacae

<400> 5914
Asp Ser Ile Ala Trp Met Pro Arg Pro Ala Val Val Lys Thr Leu Phe
1 5 10 15
Ser Ala Glu Arg Glu Gly Gly Pro Leu Thr Glu Ala Ala Cys Trp Ala
20 25 30
His Ala Arg Arg Lys Ile His Asp Val Tyr Ile Ser Thr Arg Thr Ala
35 40 45
Thr Ala Glu Glu Ala Leu Lys Arg Ile Ser Glu Leu Tyr Ala Ile Glu
50 55 60
Glu Glu Ile Arg Gly Leu Pro Ala Ser Gln Arg Leu Ala Ala Arg Arg
65 70 75 80
Ser Arg Ser Lys Pro Leu Leu Ile Ser Leu His Asp Trp Leu Val Glu
85 90 95

Lys Arg Ala Thr Leu Ser Lys Lys Ser Arg Leu Gly Glu Ala Phe Ala
 100 105 110
 Tyr Ala Leu Asn Gln Trp Asp Ala Leu Cys Tyr Tyr Cys Asp Asp Gly
 115 120 125
 Leu Ala Glu Pro Asp Asn Asn Ala Ala Glu Arg Ala Leu Arg Ala Val
 130 135 140
 Cys Leu Gly Lys Lys Asn Tyr Ile Phe Phe Gly Ser Asp His Gly Gly
 145 150 155 160
 Glu Arg Gly Ala Leu Leu Tyr Gly Leu Ile Gly Thr Cys Arg Leu Asn
 165 170 175
 Gly Ile Asp Pro Glu Gly Tyr Leu Arg His Ile Leu Ser Val Leu Pro
 180 185 190
 Glu Trp Pro Ile Asn Lys Val Ala Glu Leu Leu Pro Trp Asn Val Asp
 195 200 205
 Leu Thr Asn Lys
 210

<210> 5915

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 5915

Arg Gln Pro Gln Pro Gly Ser Gln Pro Met Gln Thr Gln Leu Val Thr
 1 5 10 15
 Pro Ser Asn Asp Pro Gly Gln Val Ala Pro Val Glu Pro Glu Pro Val
 20 25 30
 Gln Glu Asp Gln Glu Gln Ala Ala Thr Pro Ser Glu Pro Gln Ala Gln
 35 40 45
 Gln Pro Thr Gly Ile Glu Gln Gln Trp Arg Ser Tyr Arg Val Glu Pro
 50 55 60
 Gly Lys Thr Leu Ala Gln Leu Phe Arg Asp His Asn Leu Pro Ala Thr
 65 70 75 80
 Asp Val Tyr Ala Met Ala Gln Val Glu Gly Ala Gly Lys Pro Leu Ser
 85 90 95
 Asn Leu Gln Asn Gly Gln Met Val Gln Ile Arg Gln Asn Ala Ser Gly
 100 105 110
 Val Val Thr Gly Leu Thr Ile Asp Thr Gly Asn Gly Gln Gln Val Leu
 115 120 125
 Phe Thr Arg Gln Pro Asp Gly Ser Phe Ile Arg Ala Arg
 130 135 140

<210> 5916

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 5916

Glu Asp Lys Val Met Gln Val Ile Leu Leu Asp Lys Val Ala Asn Leu
 1 5 10 15
 Gly Ser Leu Gly Asp Gln Val Asn Val Lys Ala Gly Tyr Ala Arg Asn
 20 25 30
 Phe Leu Val Pro Gln Gly Lys Ala Val Pro Ala Thr Lys Lys Asn Val
 35 40 45
 Glu Phe Phe Glu Ala Arg Arg Ala Glu Leu Glu Ala Lys Leu Ala Asp
 50 55 60
 Val Leu Ala Ala Ala Asn Ala Arg Ala Glu Ala Ile Asn Ala Leu Gly
 65 70 75 80
 Thr Val Thr Ile Ala Ser Lys Ala Gly Asp Glu Gly Lys Leu Phe Gly
 85 90 95
 Ser Ile Gly Thr Arg Asp Ile Ala Asp Ala Val Thr Ala Ala Gly Val

100 105 110
 Lys Val Ala Lys Ser Glu Val Arg Leu Pro Asn Gly Val Leu Arg Thr
 115 120 125
 Thr Gly Glu His Glu Val Asp Phe Gln Val His Ser Glu Val Phe Ala
 130 135 140
 Lys Leu Val Val Asn Val Val Ala Glu
 145 150

<210> 5917
 <211> 82
 <212> PRT
 <213> Enterobacter cloacae

<400> 5917
 Ile Leu Glu Thr Ser His Met Ala Arg Tyr Phe Arg Arg Arg Lys Phe
 1 5 10 15
 Cys Arg Phe Thr Ala Glu Gly Val Gln Glu Ile Asp Tyr Lys Asp Ile
 20 25 30
 Ala Thr Leu Lys Asn Tyr Ile Thr Glu Ser Gly Lys Ile Val Pro Ser
 35 40 45
 Arg Ile Thr Gly Thr Arg Ala Lys Tyr Gln Arg Gln Leu Ala Arg Ala
 50 55 60
 Ile Lys Arg Ala Arg Tyr Leu Ser Leu Leu Pro Tyr Thr Asp Arg His
 65 70 75 80
 Gln

<210> 5918
 <211> 319
 <212> PRT
 <213> Enterobacter cloacae

<400> 5918
 Asn Ala Ile Leu Phe Met Arg Phe Val Met Asp Thr Ala Leu Pro Thr
 1 5 10 15
 Pro Val Phe Ala Arg Arg Asn Val Ala Tyr Ala Cys Ala Thr Leu Cys
 20 25 30
 Cys Leu Leu Trp Gly Ser Ser Tyr Pro Ala Ile Lys Ser Gly Tyr Glu
 35 40 45
 Leu Phe Gln Ile Ala Thr Asp Asp Ile Pro Ser Lys Val Val Phe Ala
 50 55 60
 Gly Tyr Arg Phe Leu Phe Ala Gly Ala Leu Leu Leu Phe Ala Leu
 65 70 75 80
 Ala Gln Arg Lys Pro Ile Gly Arg Leu Thr Pro Thr Gln Phe Gly Gln
 85 90 95
 Leu Thr Ile Leu Gly Leu Thr Gln Thr Ser Leu Gln Tyr Thr Phe Phe
 100 105 110
 Tyr Ile Gly Leu Ala Tyr Thr Thr Gly Val Asn Gly Ser Ile Met Asn
 115 120 125
 Ala Thr Gly Thr Phe Phe Ser Val Leu Leu Ala His Phe Ile Tyr His
 130 135 140
 Asn Asp Lys Leu Ser Tyr Asn Lys Thr Leu Gly Cys Val Leu Gly Phe
 145 150 155 160
 Ala Gly Val Met Leu Val Asn Phe His Ser Gly Leu Ser Glu Phe Gln
 165 170 175
 Phe Val Trp Lys Gly Asp Gly Phe Val Val Leu Ala Ala Phe Ile Leu
 180 185 190
 Ser Ala Ala Thr Leu Tyr Gly Lys Arg Ile Ser Gln Thr Val Asp Pro
 195 200 205
 Thr Val Met Thr Gly Trp Gln Leu Gly Ile Gly Gly Ala Ala Leu Val
 210 215 220

Ala Gly Gly Tyr Ala Thr Gly Gly Thr Leu Glu Val His Ser Met Lys
 225 230 240
 Ala Val Ala Val Leu Gly Tyr Leu Thr Leu Leu Ser Ser Val Ala Phe
 245 250 255
 Ala Leu Trp Ser Ala Leu Leu Lys Val Asn Arg Val Ser Met Ile Ala
 260 265 270
 Pro Phe Asn Phe Val Ile Pro Val Ala Gly Thr Val Leu Ser Ala Ile
 275 280 285
 Phe Leu Gly Asp Asn Ile Met Asp Ile Lys Tyr Ala Ile Ala Leu Val
 290 295 300
 Leu Val Cys Ser Gly Ile Trp Trp Val Asn Lys Arg Arg Ala
 305 310 315

<210> 5919

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 5919

Thr Glu Arg Leu Gln Trp Leu Ala Ala Leu Leu Leu Asp Ala Leu Lys
 1 5 10 15
 Ile Gln Gln Gly Asp Thr Leu Leu Thr His Pro Glu Val Trp Ala Leu
 20 25 30
 Val Thr Thr Leu Ala Asn Arg Leu Ser Gly Gln Ser Leu His Ala Ile
 35 40 45
 Leu His Asp Ile Cys Gln Ser Arg Glu Gln Leu Leu Thr Val Thr Gly
 50 55 60
 Gly Gly Leu Asn Arg Glu Leu Leu Leu Thr Asp Gln Leu Leu Arg Ile
 65 70 75 80
 Glu His Tyr Leu Gln Pro Gly Val Ile Pro Pro Val Ser His Leu
 85 90 95

<210> 5920

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 5920

Pro Thr Ser Tyr Cys Val Ser Asn Thr Thr Cys Asn Arg Val Ser Tyr
 1 5 10 15
 Arg Arg Phe Pro Thr Ser Glu Arg Asp Ile Met Phe Leu Val Asp Ser
 20 25 30
 His Cys His Leu Asp Gly Leu Asp Tyr Gln Ser Leu His Lys Asn Val
 35 40 45
 Asp Asp Val Leu Ala Lys Ala Ala Ala Arg Asp Val Lys Phe Cys Leu
 50 55 60
 Ala Val Ala Thr Thr Leu Pro Gly Tyr Arg Ser Met Arg Glu Leu Val
 65 70 75 80
 Gly Glu Arg Asp Asn Val Val Phe Ser Cys Gly Val His Pro Leu Asn
 85 90 95
 Gln Asp Glu Ala Tyr Asp Val Glu Asp Leu Arg Arg Leu Ala Ala Glu
 100 105 110
 Glu Gly Val Val Ala Met Gly Glu Thr Gly Leu Asp Tyr Leu Tyr Thr
 115 120 125
 Pro Glu Thr Lys Pro Arg Gln Gln Glu Ser Phe Arg Asn His Ile Arg
 130 135 140
 Ile Gly Arg Glu Leu Asn Lys Pro Val Ile Val His Thr Arg Asp Ala
 145 150 155 160
 Arg Ala Asp Thr Leu Ala Ile Leu Arg Glu Lys Val Thr Asp Cys
 165 170 175
 Gly Gly Val Leu His Cys Phe Thr Glu Asp Arg Glu Thr Ala Gly Lys

180 185 190
 Leu Leu Asp Leu Gly Phe Tyr Ile Ser Phe Ser Gly Ile Val Thr Phe
 195 200 205
 Arg Asn Ala Glu Gln Leu Arg Asp Ala Ala Arg Tyr Val Pro Leu Asp
 210 215 220
 Arg Ile Leu Val Glu Thr Asp Ser Pro Tyr Leu Ala Pro Val Pro His
 225 230 235 240
 Arg Gly Lys Glu Asn Gln Pro Ala Met Thr Arg Asp Val Ala Glu Tyr
 245 250 255
 Met Ala Val Leu Lys Gly Val Ser Ile Glu Glu Leu Ala Arg Val Thr
 260 265 270
 Thr Glu Asn Phe Ala Ser Leu Phe His Ile Asp Pro Ala Arg Leu Gln
 275 280 285
 Ser Val
 290

<210> 5921

<211> 489

<212> PRT

<213> *Enterobacter cloacae*

<400> 5921

Lys Lys His Lys Tyr Ser Gly Ala Leu Ser Ile Met Phe Lys Asn Ala
 1 5 10 15
 Phe Ala Asn Leu Gln Lys Val Gly Lys Ser Leu Met Leu Pro Val Ser
 20 25 30
 Val Leu Pro Ile Ala Gly Ile Leu Leu Gly Val Gly Ser Ala Asn Phe
 35 40 45
 Ser Trp Leu Pro Ala Val Val Ser His Val Met Ala Glu Ala Gly Gly
 50 55 60
 Ser Val Phe Ala Asn Met Pro Leu Ile Phe Ala Ile Gly Val Ala Leu
 65 70 75 80
 Gly Phe Thr Asn Asn Asp Gly Val Ser Ala Leu Ala Ser Val Val Ala
 85 90 95
 Tyr Gly Ile Met Val Lys Thr Met Ala Val Val Ala Pro Leu Val Leu
 100 105 110
 His Leu Pro Ala Glu Glu Ile Ala Ala Lys His Leu Ala Asp Thr Gly
 115 120 125
 Val Leu Gly Gly Ile Ile Ser Gly Ala Ile Ala Tyr Met Phe Asn
 130 135 140
 Arg Phe Tyr Arg Ile Lys Leu Pro Glu Tyr Leu Gly Phe Phe Ala Gly
 145 150 155 160
 Lys Arg Phe Val Pro Ile Ile Ser Gly Leu Ala Ala Ile Phe Thr Gly
 165 170 175
 Val Val Leu Ser Phe Ile Trp Pro Pro Ile Gly Thr Ala Ile Gln Thr
 180 185 190
 Phe Ser Gln Trp Ala Ala Tyr His Asn Pro Val Val Ala Phe Gly Ile
 195 200 205
 Tyr Gly Phe Ile Glu Arg Cys Leu Val Pro Phe Gly Leu His His Ile
 210 215 220
 Trp Asn Val Pro Phe Gln Met Gln Ile Gly Glu Tyr Thr Asn Ala Ala
 225 230 235 240
 Gly Gln Val Phe His Gly Asp Ile Pro Arg Tyr Met Ala Gly Asp Pro
 245 250 255
 Thr Ala Gly Lys Leu Ser Gly Gly Phe Leu Phe Lys Met Tyr Gly Leu
 260 265 270
 Pro Ala Ala Ala Ile Ala Ile Trp His Ser Ala Lys Pro Glu Asn Arg
 275 280 285
 Ala Lys Val Gly Gly Ile Met Ile Ser Ala Ala Leu Thr Ser Phe Leu
 290 295 300
 Thr Gly Ile Thr Glu Pro Ile Glu Phe Ser Phe Met Phe Val Ala Pro

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305          310          315          320
Ile Leu Tyr Ile Ile His Ala Val Leu Ala Gly Leu Ala Phe Pro Ile
          325          330          335
Cys Ile Leu Leu Gly Met Arg Asp Gly Thr Ser Phe Ser His Gly Leu
          340          345          350
Ile Asp Phe Ile Val Leu Ser Gly Asn Ser Ser Lys Leu Trp Leu Phe
          355          360          365
Pro Ile Val Gly Ala Gly Tyr Ala Val Val Tyr Tyr Thr Val Phe Arg
          370          375          380
Val Leu Ile Lys Ala Leu Asp Leu Lys Tnr Pro Gly Arg Glu Asp Ala
385          390          395          400
Thr Glu Asp Ser Lys Ala Gly Ala Thr Ser Glu Met Ala Pro Ala Leu
          405          410          415
Val Ala Ala Phe Gly Gly Lys Glu Asn Ile Thr Asn Leu Asp Ala Cys
          420          425          430
Ile Thr Arg Leu Arg Val Ser Val Ala Asp Val Ala Lys Val Asp Gln
          435          440          445
Pro Gly Leu Lys Lys Leu Gly Ala Ala Gly Val Val Val Ala Gly Ser
          450          455          460
Gly Val Gln Ala Ile Phe Gly Thr Lys Ser Asp Asn Leu Lys Thr Glu
465          470          475          480
Met Asp Glu Tyr Ile Arg Asn Asn
          485

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<210> 5922

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 5922

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Asp Ser Asn Ala Leu Ile Gly Ser Ile Gly Val Arg Met Asp His Trp
1          5          10          15
Asn Leu Ser Gly Ile Met Ser Thr Val Gly Val Lys Asn Glu Pro Leu
          20          25          30
Thr Ala Gly Glu Phe Lys Asp Ala Leu Asp Pro Phe His Pro Leu Ser
          35          40          45
Asp Ser Thr Arg Glu Phe Met Gln Lys Glu Ile Leu Asn Thr Met His
50          55          60
Glu Lys Phe Ile Thr Asp Val Glu Leu Gly Arg Gly Lys Lys Leu Leu
65          70          75          80
Ser Arg His Asp Ala Asp Ala Val Ser Leu Tyr Ser Gly Arg Val Trp
          85          90          95
Pro Thr Pro Gln Ala Val Lys Tyr Gly Leu Val Asp Gly Asp Leu Thr
          100          105          110
Ser Val Glu Ile Arg Thr Arg Leu Ser Lys Met Tyr Ser Thr Asp Thr
          115          120          125
Phe Lys Asn Tyr Asn Glu Pro His Arg Asn Leu Arg Ser Ala Leu Gly
          130          135          140
Met Leu Met Ser Leu Ser Ser Asn Ile Glu Ser Leu Thr Gly Thr Thr
145          150          155          160
Thr Arg Leu Val Glu Ser Val Asn Ala Thr Ser Tyr Pro Ser Val Arg
          165          170          175

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<210> 5923

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 5923

Gly Asn Met Asp Ala Phe Asn Leu Leu Trp Ser Ile Thr Gly Val Ala
 1 5 10 15
 Phe Ile Ile Leu Ile Phe Val Val Leu Leu Cys Leu Leu Gly Phe Met
 20 25 30
 Thr Ser Ala Ile Ala Glu Arg Arg Thr Ala Lys Ala Ile Glu Ser Gly
 35 40 45
 Leu Pro Glu Glu Ala Gln Gly Leu Leu Ser Asp Leu Thr Phe Gln Leu
 50 55 60
 Ser Ala His Ser Thr Thr Gln Val Asp His Ile Leu Val Ala Pro His
 65 70 75 80
 Gly Ile Tyr Val Ile Glu Gln Lys Asn Tyr Val Gly Lys Leu Tyr Gly
 85 90 95
 Thr Leu Glu Glu Ser His Trp Arg Lys Trp Thr Gln Ser Arg Thr Leu
 100 105 110
 Lys Leu Gln Asn Pro Phe Lys Gln Asn Gln Gly His Ile Arg Ala Ile
 115 120 125
 Gln Ser Ala Leu Lys Ala Arg Glu Leu Glu Cys Ile Asn Val Val Ile
 130 135 140
 Ile Asn Gly Arg Cys Lys Phe Asp Gly Ile Lys Pro Glu Trp Leu Cys
 145 150 155 160
 Met Gly Met Asp Asp Phe Ile His Lys Val Lys Gln Arg Arg Gly Leu
 165 170 175
 Arg Leu Phe Thr Pro Glu Ser Val Gln His Ile Cys Ser Val Leu Lys
 180 185 190
 Ser Thr Arg Lys Ser Pro Gly Leu Tyr Thr Asp Leu Thr His Ile His
 195 200 205
 Asn Ile Thr Thr Lys Tyr Lys Ala Pro Met Lys Phe Glu Gln Arg Val
 210 215 220
 Thr Tyr Ile Leu Leu Asn Phe Ile His Tyr Leu Trp Ala Ser Leu Phe
 225 230 235 240
 Thr Lys Gln Lys Pro
 245

<210> 5924

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 5924

Arg Gly Met Pro Ala Arg Val Ser Arg Pro Gly Ile Thr Gly Arg Ser
 1 5 10 15
 His Leu Met Ser Gln Asn Thr Leu Lys Val His Asp Leu Asn Glu Asp
 20 25 30
 Ala Glu Phe Asp Glu Asn Gly Ala Glu Ala Phe Asp Glu Lys Ala Leu
 35 40 45
 Val Glu Glu Glu Pro Ser Asp Asn Asp Leu Ala Glu Glu Glu Leu Leu
 50 55 60
 Ser Gln Gly Ala Thr Gln Arg Val Leu Asp Ala Thr Gln Leu Tyr Leu
 65 70 75 80
 Gly Glu Ile Gly Tyr Ser Pro Leu Leu Thr Ala Glu Glu Glu Val Tyr
 85 90 95
 Phe Ala Arg Arg Ala Leu Arg Gly Asp Val Ala Ser Arg Arg Arg Met
 100 105 110
 Ile Glu Ser Asn Leu Arg Leu Val Val Lys Ile Ala Arg Arg Tyr Gly
 115 120 125
 Asn Arg Gly Leu Ala Leu Leu Asp Leu Ile Glu Glu Gly Asn Leu Gly
 130 135 140
 Leu Ile Arg Ala Val Glu Lys Phe Asp Pro Glu Arg Gly Phe Arg Phe
 145 150 155 160
 Ser Thr Tyr Ala Thr Trp Trp Ile Arg Gln Thr Ile Glu Arg Ala Ile
 165 170 175

Met Asn Gln Thr Arg Thr Ile Arg Leu Pro Ile His Ile Val Lys Glu
 180 185 190
 Leu Asn Val Tyr Leu Arg Thr Ala Arg Glu Leu Ser His Lys Leu Asp
 195 200 205
 His Glu Pro Ser Ala Glu Glu Ile Ala Glu Gln Leu Asp Lys Pro Val
 210 215 220
 Asp Asp Val Ser Arg Met Leu Arg Leu Asn Glu Arg Ile Thr Ser Val
 225 230 235 240
 Asp Thr Pro Leu Gly Gly Asp Ser Glu Lys Ala Leu Leu Asp Ile Leu
 245 250 255
 Ala Asp Glu Lys Asp Asn Gly Pro Glu Asp Thr Thr Gln Asp Asp Asp
 260 265 270
 Met Lys Gln
 275

<210> 5925

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 5925

Arg Arg Val Ala Ala Leu Ser Leu Val Ser Leu Trp Leu Ala Gly Cys
 1 5 10 15
 Thr Ser Ser Asn Asn Ala Pro Ala Pro Val Ser Ser Val Asn Gly Thr
 20 25 30
 Ser Gly Ser Gly Asn Thr Ser Ser Gly Met Leu Ile Thr Pro Pro Pro
 35 40 45
 Lys Met Gly Thr Ser Thr Ala Gln Gln Thr Pro Gln Ile Gln Pro Val
 50 55 60
 Gln Arg Pro Val Thr Gln Pro Thr Gln Ile Gln Pro Val Glu Gln Pro
 65 70 75 80
 Val Gln Thr Glu Asn Gly Arg Ile Val Tyr Asn Arg Lys Tyr Gly Asn
 85 90 95
 Ile Pro Lys Gly Ser Tyr Thr Gly Gly Ser Thr Tyr Thr Val Lys Arg
 100 105 110
 Gly Asp Thr Leu Phe Tyr Ile Ala Trp Ile Thr Gly Asn Asp Phe Arg
 115 120 125
 Asp Leu Ala Gln Arg Asn Asn Val Gln Ala Pro Tyr Ala Leu Glu Val
 130 135 140
 Gly Gln Thr Leu Gln Val Gly Asn Ala Thr Gly Thr Pro Leu Thr Pro
 145 150 155 160
 Gly Asn Thr Val Ser Ala Ala Asp Val Thr Ala Gln Asn Asn Ser Val
 165 170 175
 Thr Pro Ala Gln Lys Thr Thr Thr Val Val Ala Ser Gln Pro Val Ile
 180 185 190
 Thr Tyr Ser Glu Asp Ser Gly Asp Gln Ser Ala Asn Lys Met Leu Pro
 195 200 205
 Asn Asn Lys Gly Thr Ala Thr Val Val Thr Ala Pro Thr Thr Ala Pro
 210 215 220
 Val Val Ser Ser Thr Val Pro Thr Ala Ser Ser Gln Asn Ala Ser Ser
 225 230 235 240
 Ser Ile Thr Thr Trp Arg Trp Pro Thr Asp Gly Lys Ile Ile Glu Asn
 245 250 255
 Phe Ala Thr Ser Glu Gly Gly Asn Lys Gly Ile Asp Ile Ala Gly Ser
 260 265 270
 Lys Gly Gln Ala Ile Ile Ala Thr Ala Asp Gly Arg Val Val Tyr Ala
 275 280 285
 Gly Asn Ala Leu Arg Gly Tyr Gly Asn Leu Ile Ile Lys His Asn
 290 295 300
 Asp Asp Tyr Leu Ser Ala Tyr Ala His Asn Asp Thr Met Leu Val Arg
 305 310 315 320

Glu Gln Gln Glu Val Lys Ala Gly Gln Lys Ile Ala Thr Met Gly Ser
 325 330 335
 Thr Gly Thr Ser Ser Thr Arg Leu His Phe Glu Ile Arg Tyr Lys Gly
 340 345 350
 Lys Ser Val Asn Pro Leu Gln Tyr Leu Pro Gln Arg
 355 360 365

<210> 5926

<211> 130

<212> PRT

<213> *Enterobacter cloacae*

<400> 5926

Ser Leu Leu Asn Phe Leu Ile Pro Lys Asn Lys Gly Ala Ile Ser Pro
 1 5 10 15
 Gln Ile Lys Phe His Gln Val Thr Arg Thr Lys Lys Phe Gln Arg Asp
 20 25 30
 Gln Arg Ile Gln Thr Ser Ala Arg Gly Asn Tyr Gly Arg Glu Gln Thr
 35 40 45
 Glu Glu Glu Pro Pro Lys Gly Thr Ala Pro Glu Lys Pro Gln Ala Ala
 50 55 60
 Gln Arg Arg Glu Lys Arg Lys Thr Glu Lys Gly His Gln Asn Arg Gly
 65 70 75 80
 Glu Lys Leu Ile Ser Glu Gln Asn Arg Ser Pro Asn Glu Lys Arg Asn
 85 90 95
 Ile Ser Ala Glu Lys Lys Arg Glu Ser Ala Gln Leu Val Leu Asp Gln
 100 105 110
 Asn His Thr Val Ala Ala Val Leu His Arg Arg Gly Arg Lys Glu Thr
 115 120 125
 Arg Phe
 130

<210> 5927

<211> 605

<212> PRT

<213> *Enterobacter cloacae*

<400> 5927

Val Ser Pro Ser Glu Arg Thr Leu Glu Gly Lys Glu Trp Cys Ala Gly
 1 5 10 15
 Asn Thr Asn Gly Asp Ser Gly Lys Ser Leu Lys Val Asn Ile Gly Gly
 20 25 30
 Lys Lys Ser Trp Ala Asp Phe Ala Ser Gly Asp Ser Gly Asp Leu Leu
 35 40 45
 Asp Leu Trp Val Leu Val Arg Asn Cys Gln Leu His Asp Ala Met Arg
 50 55 60
 Glu Ala Lys Glu Phe Leu Gly Leu Lys Asp Asp Asp His His Phe Glu
 65 70 75 80
 Ala Lys Lys Lys Leu Phe Ser Arg Pro Thr Lys Lys Gly Val Lys Ser
 85 90 95
 Ala Ser Lys Cys Tyr Asp Tyr Leu Ala Ser Arg Gly Ile Thr Arg Glu
 100 105 110
 Thr Ala Asp Arg Phe Lys Val Thr Asp Ala Val Val Trp Tyr His Asp
 115 120 125
 Glu Ser Arg Glu Val Pro Ala Val Ala Phe Pro Tyr Ile Arg Asn Gly
 130 135 140
 Glu Leu Leu Gln Val Lys Arg Ile Gly Thr Glu Arg Pro Asn Gly Lys
 145 150 155 160
 Lys Leu Ile Met Ala Glu Ala Asp Cys Glu Pro Cys Leu Phe Gly Trp
 165 170 175
 Gln Ala Leu Asp Lys Asn Thr Arg Leu Val Val Leu Cys Glu Gly Glu

180 185 190
 Ile Asp Cys Met Thr Phe Thr Gln Leu Gly Tyr Asp Ala Leu Ser Val
 195 200 205
 Pro Phe Gly Gly Gly Lys Gly Ala Lys Gln Gln Trp Ile Glu Tyr Glu
 210 215 220
 Tyr His Asn Leu Asp Arg Phe Gln Glu Ile Trp Leu Cys Leu Asp Asn
 225 230 235 240
 Asp Asn Val Gly Arg Glu Ala Ala Lys Glu Ile Ala Arg Arg Leu Gly
 245 250 255
 Glu His Arg Cys Arg Met Val Glu Leu Pro His Lys Asp Ile Asn Asp
 260 265 270
 Cys Leu Met Asn Gly Met Asp Ser Asp Ser Ile Leu Glu Tyr Met Glu
 275 280 285
 Arg Ala Lys Phe Phe Asp Pro Asp Glu Leu Cys Ser Ala Gly Asp Leu
 290 295 300
 Leu Gln Glu Thr Ile Glu Ala Phe Glu His Arg Asp Thr Gly Leu Phe
 305 310 315 320
 Thr Ser Pro Trp Ala Ser Leu Asn Asn Asn Phe Lys Phe Arg Ala Gly
 325 330 335
 Glu Leu Thr Leu Val Asn Gly Val Asn Gly His Gly Lys Thr Glu Leu
 340 345 350
 Val Gly His Ile Ala Ile Asp Ala Met Ser Gln Gly Val Arg Thr Cys
 355 360 365
 Ile Ala Ser Leu Glu Leu Lys Pro Gly Lys Met Leu Ala Arg Leu Thr
 370 375 380
 Arg Gln Thr Ile Cys Thr Ser Ser Pro Lys Arg Glu Glu Ile Ile Met
 385 390 395 400
 Thr Asn Glu Trp Phe Ser Asp Arg Leu Trp Val Phe Lys Leu Thr Gly
 405 410 415
 Thr Ala Lys Ala Asp Arg Leu Leu Glu Ile Phe Ala Tyr Ala Arg Arg
 420 425 430
 Arg Tyr Gly Ile Glu Leu Phe Val Ile Asp Asn Leu Ala Lys Cys Gly
 435 440 445
 Leu Asp Glu Glu Asp Tyr Thr Gly Gln Lys Asp Phe Ile Asp Thr Leu
 450 455 460
 Cys Asp Phe Lys Asn Glu His Asn Cys His Val Leu Leu Val Thr His
 465 470 475 480
 Ala Arg Lys Thr Asn Asp Ser Ala Pro Thr Gly Lys Met Asp Val Lys
 485 490 495
 Gly Thr Gly Ala Leu Thr Asp Met Pro Asp Asn Val Met Ala Val Trp
 500 505 510
 Arg Asn Ile Pro Arg Glu Leu Ala Gln Arg Lys Ala Asp Arg Met Gly
 515 520 525
 Tyr Glu Ser Leu Asp Lys Asp Glu Gln Ala Ala Ile Asn Leu Pro Ala
 530 535 540
 Ser Met Ile Arg Leu Leu Lys Gln Arg Glu Gly Glu Gly Trp Ile Gly
 545 550 555 560
 Asp Ile Gly Ala Asn Phe Asp Ser Arg Ser His Gln Phe Leu Glu Gly
 565 570 575
 Glu Lys Lys Pro Phe Asn Tyr Leu Val Gly Lys Pro Gln Ser Glu Leu
 580 585 590
 Asp Leu Glu Trp Glu Ala Ser Asn Val Thr Arg Val
 595 600 605

<210> 5928

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 5928

Ala Ser Ser Arg Leu His Asn His Ala Ser Ser Gly Val Cys Val Ser

```

1           5           10           15
Ser Lys Ile Leu Gly Asn Val Trp Asp Ala Cys Ala Ala His Asp Ile
20          25          30
Lys Gly Ala Lys Leu Val Ile Met Ala Arg Leu Ala Asp Tyr Ser Asn
35          40          45
Asp Asp Gly Val Cys Tyr Pro Ser Val Glu Thr Ile Cys Arg Gln Leu
50          55          60
Gly Leu Gly Glu Ser Thr Val Arg Thr Ala Ile Ala Glu Leu Glu Ser
65          70          75          80
Ser Gly Trp Leu Arg Arg Glu Ala Arg Arg Lys Gly Asn Arg Asn Thr
85          90          95
Ser Asn Leu Tyr His Leu Asn Ala Glu Arg Leu Glu Ala Leu Ala Arg
100         105         110
Ile Glu Glu Asp Lys Val Ala Ala Leu Lys Gln Gln Arg Thr Asn
115         120         125
Gly Phe His Pro Ser Asp Ser Asp Pro Ser Lys Thr Glu Pro Ser Asp
130         135         140
Ser Gly Phe Ser Asn Gly Phe His Pro Ser Asp Ser Asp Lys Asn Gly
145         150         155         160
Val Phe Thr Arg Gln Asn Leu Thr Pro Asp Pro Gln Val Asn Ser Lys
165         170         175
His Asp Pro Gln Val Asn Ser Lys His Asp Pro Gln Val Asn Ser Lys
180         185         190
Gln Glu Ser Gln Asp Ile Gly Val Cys Gly Lys Ala Ser Ser Glu Asn
195         200         205
Arg Ser Ser Lys Glu Asn Tyr Ser Asn Glu Phe Glu Lys Ala Trp Gln
210         215         220
Ala Tyr Pro Lys Arg Ala Gly Gly Asn Ser Lys Ala Ala Ala Trp Lys
225         230         235         240
Ala Trp Lys Ala Arg Ile Lys Asp Gly Val Asn Thr Glu Ala Met Leu
245         250         255
Ala Gly Val Asn Arg Tyr Ala Gly Tyr Val Arg Ala Thr Gly Ser Ala
260         265         270
Gly Thr Gln Tyr Val Lys Gln Ala Ala Thr Phe Phe Gly Pro Asp Lys
275         280         285
His Phe Asp Glu Pro Trp Leu Val Glu Thr Gln Glu Asn Lys Val Pro
290         295         300
Thr Arg Gln Asp Gln Ser Arg Tyr Glu Trp Tyr Ala Lys Ser Asp Asp
305         310         315         320
Gly Ser Ala Glu Val Phe Ile Asn Gln Ser Ala Ile Asp Arg Met Asn
325         330         335
Arg Gly Gly Tyr Arg Pro
340

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<210> 5929

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 5929

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Ser Pro Cys Pro Arg Ala Ala Ala Asp Arg Leu Asn Thr Ser Asn Asn
1           5           10           15
Thr Lys Val Arg Ile Asp Pro Ile Ile Val Ala Gln Asp Gly Ser Leu
20          25          30
Cys Gly Pro Gly Thr Ala Cys Thr Thr Val Ala Lys Gln Thr Tyr Ala
35          40          45
Leu Pro Ala Arg Pro Asp Leu Ser Gly Gly Met Gly Gly Val Ser Thr
50          55          60
Pro Ala Val Pro Ala Gln Pro Gln Gly Glu Val Arg Ala Ile Ser Asn
65          70          75          80
Asp Thr Leu Gln Ser Glu Asp Ala Thr Gly Ala Pro Val Lys Ser Ser

```

85 90 95
 Gly Phe Phe Gly Ala Pro Thr Thr Leu Ala Pro Gly Val Ile Glu Ser
 100 105 110
 Asn Glu Pro Ala Pro Ala Leu Ala Pro Val Val Ala Ala Pro Ala Ala
 115 120 125
 Gln Pro Ala Pro Val Thr Ala Pro Cys Cys Tyr Ala Asp Cys Gly Ala
 130 135 140
 Cys Asp Gly Glu Arg Gln Leu Arg Gly Ser Gly Trp Arg Cys Gln Arg
 145 150 155 160
 Ser Asp Pro Cys Arg Ala Ile Ser Ala Ala Phe Lys Gln Thr Val Trp
 165 170 175
 Arg Ala Arg Pro Arg
 180

<210> 5930

<211> 106

<212> PRT

<213> *Enterobacter cloacae*

<400> 5930

Asn Ser Arg Pro Val Ala Gly Val Ile Ile Phe Tyr Thr His Ala Gly
 1 5 10 15
 Ala Asp Met Lys Thr Lys Leu Asn Glu Leu Leu Glu Phe Pro Thr Pro
 20 25 30
 Phe Thr Tyr Lys Val Met Gly Leu Ala Lys Pro Glu Leu Val Asp Gln
 35 40 45
 Val Val Glu Val Val Gln Arg His Ala Pro Gly Asp Tyr Ser Pro Ser
 50 55 60
 Val Lys Pro Ser Ser Lys Gly Asn Tyr His Ser Val Ser Ile Thr Ile
 65 70 75 80
 Thr Ala Thr His Ile Glu Gln Val Glu Thr Leu Tyr Glu Glu Leu Gly
 85 90 95
 Asn Ile Glu Ile Val Arg Met Val Leu
 100 105

<210> 5931

<211> 90

<212> PRT

<213> *Enterobacter cloacae*

<400> 5931

Pro Arg Pro Ala Ala Thr Gln Thr Ala Ala Pro Ala Thr Ala Ser Gly
 1 5 10 15
 Ser Tyr Val Val Gln Val Gly Ala Val Ser Asp Arg Thr Arg Ala Glu
 20 25 30
 Gln Tyr Gln Gln Arg Leu Ser Lys Gln Phe Gly Val Pro Gly Arg Val
 35 40 45
 Glu Gln Asn Gly Ala Val Trp Arg Ile Gln Met Gly Pro Phe Ala Ser
 50 55 60
 Lys Ser Gln Ala Ala Ser Leu Gln Gln Arg Leu Gln Ser Glu Ala Gln
 65 70 75 80
 Leu Gln Ser Phe Ile Ala Val Ala Lys
 85 90

<210> 5932

<211> 435

<212> PRT

<213> *Enterobacter cloacae*

<400> 5932

His Ser His Asp Glu Ser Arg Met Pro Ala Arg Ile Ala Phe Ala Ile

1 5 10 15
 Val Arg His Phe Asn Ser Ile Thr Asp Val Val Val Leu Thr Met
 20 25 30
 Lys Thr Thr Phe Ser Ala Arg Phe Val Gln Arg Met Ala Leu Thr Thr
 35 40 45
 Ala Leu Cys Ala Ala Ala Phe Ser Ala Ala His Ala Asp Asp Leu Asn
 50 55 60
 Ile Lys Thr Met Ile Pro Gly Val Pro Gln Ile Asp Ala Glu Ser Tyr
 65 70 75 80
 Ile Leu Ile Asp Tyr Asn Ser Gly Lys Val Leu Ala Glu Gln Asn Ala
 85 90 95
 Asp Ala Arg Arg Asp Pro Ala Ser Leu Thr Lys Met Met Thr Ser Tyr
 100 105 110
 Val Ile Gly Gln Ala Met Lys Ala Gly Lys Phe Lys Glu Thr Asp Leu
 115 120 125
 Val Thr Ile Gly Asn Asp Ala Trp Ala Thr Gly Asn Pro Val Phe Lys
 130 135 140
 Gly Ser Ser Leu Met Phe Leu Lys Pro Gly Met Gln Val Pro Val Ser
 145 150 155 160
 Gln Leu Ile Arg Gly Ile Asn Leu Gln Ser Gly Asn Asp Ala Cys Val
 165 170 175
 Ala Met Ala Asp Phe Ala Ala Gly Ser Gln Asp Ala Phe Val Gly Leu
 180 185 190
 Met Asn Ser Tyr Val Ser Ala Leu Gly Leu Lys Asn Ser His Phe Gln
 195 200 205
 Thr Val His Gly Leu Asp Ala Glu Gly Gln Tyr Ser Ser Ala Arg Asp
 210 215 220
 Met Ala Leu Ile Gly Gln Ala Leu Ile Arg Asp Val Pro Asn Glu Tyr
 225 230 235 240
 Ser Ile Tyr Lys Glu Lys Glu Phe Thr Phe Asn Gly Ile Arg Gln Thr
 245 250 255
 Asn Arg Asn Gly Leu Leu Trp Asp Asn Ser Leu Asn Val Asp Gly Ile
 260 265 270
 Lys Thr Gly His Thr Asp Lys Ala Gly Tyr Asn Leu Val Ala Ser Ala
 275 280 285
 Thr Glu Gly Gln Met Arg Leu Ile Ser Ala Val Met Gly Gly Arg Thr
 290 295 300
 Phe Lys Gly Arg Glu Thr Glu Ser Lys Lys Leu Leu Thr Trp Gly Phe
 305 310 315 320
 Arg Phe Phe Glu Thr Val Asn Pro Leu Lys Ala Gly Lys Glu Phe Ala
 325 330 335
 Ser Glu Pro Val Trp Phe Gly Asp Asn Asp Arg Ala Ser Leu Gly Val
 340 345 350
 Asp Lys Asp Leu Tyr Leu Thr Ile Pro Arg Gly Arg Met Lys Asp Leu
 355 360 365
 Lys Ala Ser Tyr Val Leu Asn Thr Thr Glu Leu His Ala Pro Leu Gln
 370 375 380
 Lys Asn Gln Val Val Gly Thr Ile Asn Phe Gln Leu Asp Gly Lys Thr
 385 390 395 400
 Ile Asp Gln Arg Pro Leu Val Val Leu Glu Glu Ile Pro Glu Gly Asn
 405 410 415
 Phe Phe Gly Lys Ile Ile Asp Tyr Ile Lys Leu Met Phe His His Trp
 420 425 430
 Phe Gly
 435

<210> 5933

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 5933

Tyr Thr Pro Arg Tyr Leu Phe Ser Leu Val Phe Gly Asp Val Leu Leu
 1 5 10 15
 Tyr Gln Asp Lys Ile Leu Val Arg His Leu Gly Ile Gln Pro Tyr Glu
 20 25 30
 Pro Val Ser Gln Ala Met His Asp Phe Thr Asp Met Arg Asp Asp Thr
 35 40 45
 Thr Pro Asp Glu Ile Trp Leu Val Glu His Met Pro Val Phe Thr Gln
 50 55 60
 Gly Gln Ala Gly Lys Ala Glu His Leu Leu Met Thr Gly Asp Ile Pro
 65 70 75 80
 Val Ile Gln Ser Asp Arg Gly Gly Gln Val Thr Tyr His Gly Pro Gly
 85 90 95
 Gln Gln Val Met Tyr Val Leu Leu Asn Leu Lys Arg Arg Lys Leu Gly
 100 105 110
 Val Arg Glu Leu Val Thr Leu Leu Glu Gln Thr Val Val Asn Thr Leu
 115 120 125
 Ala Glu Tyr Gly Ile Asp Ala His Pro Arg Ala Asp Ala Pro Gly Val
 130 135 140
 Tyr Val Gly Glu Lys Lys Ile Cys Ser Leu Gly Leu Arg Ile Arg Lys
 145 150 155 160
 Gly Cys Ser Phe His Gly Leu Ala Leu Asn Ile Asn Met Asp Leu Thr
 165 170 175
 Pro Phe Gln Arg Ile Asn Pro Cys Gly Tyr Ala Gly Met Glu Met Thr
 180 185 190
 Gln Met Arg Gln Trp Val Ala Thr Ala Thr Pro Glu Asn Ile Arg Pro
 195 200 205
 Val Leu Leu Lys Lys Phe Leu Ala Leu Leu Asn Asn Pro Asp His Glu
 210 215 220
 Tyr Ile Ala Ala
 225

<210> 5934

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 5934

Pro Gly Val Asp Met Tyr Ala Leu Thr His Gly Arg Ile Tyr Thr Gly
 1 5 10 15
 His Glu Ile Leu Asp Asp His Ala Ile Val Ile Ala Asn Gly Leu Ile
 20 25 30
 Glu Arg Val Cys Pro Leu Ala Glu Leu Pro Pro Glu Ile Glu Gln Arg
 35 40 45
 Ser Leu Asn Gly Ala Val Ile Ser Pro Gly Phe Ile Asp Val Gln Leu
 50 55 60
 Asn Gly Cys Gly Gly Val Gln Phe Asn Asp Thr Ala Glu Ala Val Thr
 65 70 75 80
 Val Glu Thr Leu Glu Ile Met Gln Lys Ala Asn Glu Lys Ser Gly Cys
 85 90 95
 Thr Ser Tyr Leu Pro Thr Leu Ile Thr Ser Ser Asp Asp Leu Met Lys
 100 105 110
 Gln Gly Ile Arg Val Met Arg Glu Tyr Leu Ala Lys His Pro Asn Gln
 115 120 125
 Ala Leu Gly Leu His Leu Glu Gly Pro Trp Leu Asn Met Val Lys Lys
 130 135 140
 Gly Thr His Asn Pro Asn Tyr Val Arg Lys Pro Asp Ala Glu Leu Val
 145 150 155 160
 Asp Tyr Met Cys Ala Asn Ala Asp Val Ile Thr Lys Val Thr Leu Ala
 165 170 175
 Pro Glu Met Thr Gly Thr Asp Val Ile Ser Lys Leu Ala Ala Ala Gly

180 185 190
 Ile Val Val Ser Ala Gly His Ser Asn Ala Thr Leu Lys Glu Ala Lys
 195 200 205
 Ala Gly Phe Arg Ala Gly Ile Thr Phe Ala Thr His Leu Tyr Asn Ala
 210 215 220
 Met Pro Tyr Ile Thr Gly Arg Glu Pro Gly Leu Val Gly Ala Ile Leu
 225 230 235 240
 Asp Glu Pro Asp Val Tyr Cys Gly Ile Ile Ala Asp Gly Leu His Val
 245 250 255
 Asp Tyr Thr Asn Ile Arg Asn Ala Gln Arg Leu Lys Gly Asp Lys Leu
 260 265 270
 Cys Leu Val Thr Asp Ala Thr Ala Pro Ala Gly Ala Asn Ile Asp Gln
 275 280 285
 Phe Ile Cys Ala Gly Lys Thr Ile Tyr Tyr Arg Asn Gly Leu Cys Val
 290 295 300
 Asp Glu Asn Gly Thr Leu Ser Gly Ser Ser Leu Thr Met Ile Glu Gly
 305 310 315 320
 Val Arg Asn Leu Val Glu His Cys Gly Ile Ala Leu Glu Glu Val Leu
 325 330 335
 Arg Met Ala Thr Leu Tyr Pro Ala Arg Ala Ile Gly Val Asp Lys Gln
 340 345 350
 Leu Gly Gly Ile Ala Pro Gly Met Val Ala Asn Leu Thr Ala Phe Thr
 355 360 365
 His Asp Tyr Lys Ile Ile Lys Thr Ile Val Asn Gly Asn Glu Val Val
 370 375 380
 Thr Glu
 385

<210> 5935

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 5935

Ile Met Arg Leu Ile Pro Leu Ala Thr Ala Glu Gln Val Gly Lys Trp
 1 5 10 15
 Ala Ala Arg His Ile Val Asn Arg Ile Asn Ala Phe Lys Pro Thr Ala
 20 25 30
 Asp Arg Pro Phe Val Leu Gly Leu Pro Thr Gly Gly Thr Pro Leu Thr
 35 40 45
 Ala Tyr Lys Ala Leu Val Glu Met His Lys Ala Gly Gln Val Ser Phe
 50 55 60
 Lys His Val Val Thr Phe Asn Met Asp Glu Tyr Val Gly Leu Pro Lys
 65 70 75 80
 Glu His Pro Glu Ser Tyr His Ser Phe Met His Arg Asn Phe Phe Asp
 85 90 95
 His Val Asp Ile Pro Ala Glu Asn Ile Asn Leu Leu Asn Gly Asn Ala
 100 105 110
 Pro Asp Ile Asp Ala Glu Cys Arg Gln Tyr Glu Glu Lys Ile Arg Ser
 115 120 125
 Tyr Gly Lys Ile His Leu Phe Met Gly Gly Val Gly Asn Asp Gly His
 130 135 140
 Ile Ala Phe Asn Glu Pro Ala Ser Ser Leu Ala Ser Arg Thr Arg Ile
 145 150 155 160
 Lys Thr Leu Thr His Asp Thr Arg Val Ala Asn Ser Arg Phe Phe Asp
 165 170 175
 Gly Asp Val Asn Gln Val Pro Lys Tyr Ala Leu Thr Val Gly Val Gly
 180 185 190
 Thr Leu Leu Asp Ala Glu Glu Val Met Ile Leu Val Leu Gly Ala Val
 195 200 205
 Lys Ala Gln Ala Leu Gln Ala Ala Val Glu Gly Asn Val Asn His Met

210 215 220
 Trp Thr Ile Ser Cys Leu Gln Leu His Pro Lys Ala Val Val Val Cys
 225 230 235 240
 Asp Glu Pro Ser Thr Met Glu Leu Lys Val Lys Thr Leu Lys Tyr Phe
 245 250 255
 Asn Glu Leu Glu Ala Glu Asn Ile Lys Gly Leu
 260 265

<210> 5936

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 5936

Val Ser Lys Ser Met Thr Pro Gly Gly Gln Ala Gln Ile Gly Asn Val
 1 5 10 15
 Asp Leu Val Lys Gln Leu Asn Ser Ala Val Tyr Arg Leu Ile Asp
 20 25 30
 Gln His Gly Pro Ile Ser Arg Ile Gln Ile Ala Glu Gln Ser Gln Leu
 35 40 45
 Ala Pro Ala Ser Val Thr Lys Ile Thr Arg Gln Leu Ile Glu Arg Gly
 50 55 60
 Leu Ile Lys Glu Val Asp Gln Gln Ala Ser Thr Gly Gly Arg Arg Ala
 65 70 75 80
 Ile Ser Ile Val Thr Glu Thr Arg Asn Phe Gln Ala Ile Gly Val Arg
 85 90 95
 Leu Gly Arg His Asp Thr Thr Leu Thr Leu Tyr Asp Leu Ser Ser Lys
 100 105 110
 Ala Ile Ala Glu Glu His Tyr Pro Leu Pro Glu Arg Thr Gln Glu Thr
 115 120 125
 Leu Glu His Ala Leu Leu Asn Thr Ile Ala Gln Phe Ile Glu Ser Cys
 130 135 140
 Gln Arg Lys Ile Arg Glu Leu Ile Ala Ile Ser Val Ile Leu Pro Gly
 145 150 155 160
 Leu Val Asp Pro Glu Ser Gly Val Ile Arg Tyr Met Pro His Ile Lys
 165 170 175
 Val Glu Asn Trp Gly Leu Val Glu Ala Leu Glu Lys Arg Phe Lys Leu
 180 185 190
 Thr Cys Phe Val Gly His Asp Ile Arg Ser Leu Ala Leu Ala Glu His
 195 200 205
 Tyr Phe Gly Ala Ser Gln Asp Cys Glu Asp Ser Ile Leu Val Arg Val
 210 215 220
 His Arg Gly Thr Gly Ala Gly Ile Ile Ser Asn Gly Arg Ile Phe Ile
 225 230 235 240
 Gly Arg Asn Gly Asn Val Gly Glu Ile Gly His Ile Gln Val Glu Pro
 245 250 255
 Leu Gly Glu Arg Cys His Cys Gly Asn Phe Gly Cys Leu Glu Thr Val
 260 265 270
 Ala Ala Asn Ala Ala Ile Glu His Arg Val Arg His Leu Leu Glu Gln
 275 280 285
 Gly Tyr Gln Ser Arg Val Thr Leu Asp Asp Cys Lys Ile Gly Ala Ile
 290 295 300
 Cys Lys Ala Ala Asn Lys Gly Asp Ala Leu Ala Cys Glu Val Ile Glu
 305 310 315 320
 Gln Val Gly Arg His Leu Gly Lys Thr Ile Ala Ile Ala Ile Asn Leu
 325 330 335
 Phe Asn Pro Gln Lys Val Val Ile Ala Gly Glu Ile Val Glu Ala Glu
 340 345 350
 Lys Val Leu Leu Pro Ala Ile Glu Gly Cys Ile Asn Thr Gln Ala Leu
 355 360 365
 Lys Ala Phe Arg Gln Asn Leu Pro Val Val Arg Ser Thr Leu Asp His

370 375 380
 Arg Ser Ala Ile Val Phe Ile His Glu Gly Arg Glu Arg Arg
 385 390 395

<210> 5937
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 5937
 Met Arg Arg Asp Met Tyr Glu Val Met Asp Arg Trp Gly Ala Trp Ala
 1 5 10 15
 Ala Ala Asp Ser Ser Gly Val Asp Trp Gln Pro Ile Ala Ala Gly Phe
 20 25 30
 Lys Gly Leu Leu Pro His Gly Lys Lys Ser Arg Leu Gln Cys Asp Asp
 35 40 45
 Asp Glu Gly Ile Met Ile Asp Gly Cys Ile Ala Arg Leu Arg Lys Phe
 50 55 60
 Lys Ser Asp Glu Tyr Glu Leu Leu Ile Ala His Phe Val Ile Gly Ile
 65 70 75 80
 Ser Leu Arg Thr Ile Ala Lys Lys Lys Lys Cys Ser Asp Gly Thr Val
 85 90 95
 Arg Lys Asp Leu Gln Thr Ala Leu Gly Phe Val Glu Gly Val Met Ser
 100 105 110
 Met Leu
 115

<210> 5938
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 5938
 Asp Val Met Gly Ile Met Cys Asp Met Ser Tyr Arg Leu Tyr Pro Leu
 1 5 10 15
 Lys Asn Thr Val Ala Phe Arg Lys Thr Trp Glu Lys Trp Gly Gly Leu
 20 25 30
 Ser Asn Met Ala Lys Gly Tyr Pro Leu Leu Ile Asn Gly Leu Pro Ile
 35 40 45
 Gln Ser Ser Glu Ile Leu Tyr Gln Ala Cys Arg Tyr Pro Asp Tyr Pro
 50 55 60
 Glu Ile Gln Lys Ala Ile Ile Thr Gln Gly Asn Pro Tyr Glu Ala Lys
 65 70 75 80
 Gln Thr Ala Arg Ser Phe Glu Ala Lys Thr Arg Ser Gly Trp Glu Lys
 85 90 95
 Asn Arg Val Ser Ile Met Lys Trp Cys Val Cys Val Lys Leu Cys Gln
 100 105 110
 Asn Trp Glu Thr Phe Phe Ala Leu Leu Asp Ser Thr Gly Glu His Asp
 115 120 125
 Ile Val Glu His Ser Glu Lys Asp Gln Phe Trp Gly Ala Ser Lys Asp
 130 135 140
 Ser Glu Gly Asn Phe Tyr Gly Met Asn Val Leu Gly Arg Ile Leu Met
 145 150 155 160
 Asp Val Arg Asp Val Ala Arg Lys Arg Gly Pro Thr Gly Phe Ala Ser
 165 170 175
 Ile Pro Pro Leu Pro Leu Glu Lys Phe Leu Leu Gly Asp His Ile
 180 185 190
 Arg Asp Val Thr Phe Thr Pro Pro Val Asp Thr Gly His Ser Leu
 195 200 205
 Ser Leu Phe
 210

<210> 5939

<211> 217

<212> PRT

<213> *Enterobacter cloacae*

<400> 5939

```

Ser Ser Arg Ile Arg Cys Asn Met Leu Phe His Thr Asn Asn Ser Ile
1      5      10      15
Tyr Leu Ser His Asn Asp Gly Gln Gln Val Ser His Thr Pro Ser Met
20     25     30
His Cys Tyr Gly Cys Val Lys Lys Cys Leu Phe Gly Asp Ala Glu Ala
35     40     45
Cys Ala Arg Lys Thr Cys Thr Gly Leu Glu Cys Tyr Ile Trp Pro Asp
50     55     60
Asn Asn Ser Tyr Leu Val Glu Gly Ile Arg His Tyr Phe Glu Cys Val
65     70     75     80
Ser Asp Lys Tyr Ile Ser Gln Pro Val Val Ile Ile Asp Phe Ser His
85     90     95
Lys Asn Ile Thr Tyr Phe Leu Asn Asp Ser Trp Leu Glu Gln Phe Lys
100    105    110
Asn Met Arg Leu Ile Leu Val Thr Asp Lys Lys Met Thr Ala Ile Ala
115    120    125
His Tyr Trp Phe Tyr Asn Asp Thr Leu Glu Thr Thr Ile Ser Ser Ile
130    135    140
Ile Phe Tyr Asp Asp Ser Ala Glu Glu Val Ala Thr Lys Leu Lys Lys
145    150    155    160
Thr Phe Leu Ala Lys Thr Ile Lys Pro Ser Gly Ser Arg Pro Lys Leu
165    170    175
Ser Gln Asn Glu Phe Ser Leu Phe Ser Phe Leu Phe Asn Gly Trp Thr
180    185    190
Pro Lys Lys Ile Ala Tyr Gln Asn Gly Thr Ser Val Lys Asn Thr Tyr
195    200    205
Ala Met Lys Asn Leu His His Glu
210    215

```

<210> 5940

<211> 812

<212> PRT

<213> *Enterobacter cloacae*

<400> 5940

```

Phe Met Arg Ile Cys Cys Leu Gly Arg Ile Lys Thr Leu Phe Tyr His
1      5      10      15
Gly Leu Ser Leu Tyr Leu Ser Ser Leu Ile Leu Leu Ala Trp Thr Ala
20     25     30
Ala Leu Gly Val Ala Gly Leu Trp Asn Ile Trp Val Leu Val Pro Leu
35     40     45
Ala Ile Ile Leu Leu Pro Phe Asn Leu Thr Pro Met Arg Lys Ser Met
50     55     60
Ile Ser Val Pro Val Phe Arg Gly Phe Arg Lys Val Met Pro Pro Met
65     70     75     80
Ser Arg Thr Glu Lys Glu Ala Ile Asp Ala Gly Thr Thr Trp Trp Glu
85     90     95
Gly Asp Leu Phe Gln Gly Asn Pro Asp Trp Lys Lys Leu His Asn Tyr
100    105    110
Pro Gln Pro Arg Leu Thr Ala Glu Glu Gln Ala Phe Ile Asp Gly Pro
115    120    125
Val Glu Glu Ala Cys Arg Met Ala Asn Asp Phe Ala Ile Thr His Glu
130    135    140
Met Ala Asp Leu Pro Pro Glu Leu Trp Ala Tyr Leu Lys Glu His Arg

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145	Phe	Phe	Ala	Met	Ile	Ile	Lys	Lys	Glu	Tyr	150	Gly	Gly	Leu	Glu	Phe	160
					165					170							175
Ala	Tyr	Ala	Gln	Ala	Arg	Val	Leu	Gln	Lys	Leu	Ala	Gly	Val	Ser	Gly		
			180					185					190				
Ile	Leu	Ala	Ile	Thr	Val	Gly	Val	Pro	Asn	Ser	Leu	Gly	Pro	Gly	Glu		
			195				200						205				
Leu	Leu	Gln	His	Tyr	Gly	Thr	Glu	Glu	Gln	Lys	Asp	His	Tyr	Leu	Pro		
			210				215						220				
Arg	Leu	Ala	Arg	Gly	Gln	Glu	Ile	Pro	Cys	Phe	Ala	Leu	Thr	Ser	Pro		
			225			230					235				240		
Glu	Ala	Gly	Ser	Asp	Ala	Gly	Ala	Ile	Pro	Asp	Thr	Gly	Val	Val	Cys		
			245								250				255		
Met	Gly	Glu	Trp	Gln	Gly	Gln	Gln	Val	Leu	Gly	Met	Arg	Leu	Thr	Trp		
			260					265					270				
Asn	Lys	Arg	Tyr	Ile	Thr	Leu	Ala	Pro	Ile	Ala	Thr	Val	Leu	Gly	Leu		
			275				280						285				
Ala	Phe	Lys	Leu	Ser	Asp	Pro	Glu	Lys	Leu	Leu	Gly	Glu	Glu	Asp			
			290				295				300						
Leu	Gly	Ile	Thr	Cys	Ala	Leu	Ile	Pro	Thr	Ser	Thr	Pro	Gly	Val	Glu		
			305			310				315					320		
Ile	Gly	Arg	Arg	His	Phe	Pro	Leu	Asn	Val	Pro	Phe	Gln	Asn	Gly	Pro		
			325						330					335			
Thr	Arg	Gly	Gln	Asp	Ile	Phe	Val	Pro	Ile	Asp	Tyr	Ile	Ile	Gly	Gly		
			340					345					350				
Pro	Lys	Met	Ala	Gly	Gln	Gly	Trp	Arg	Met	Leu	Val	Glu	Cys	Leu	Ser		
			355				360						365				
Val	Gly	Arg	Gly	Ile	Thr	Leu	Pro	Ser	Asn	Ser	Thr	Gly	Gly	Leu	Lys		
			370				375				380						
Ser	Val	Ala	Met	Gly	Ile	Gly	Ala	Tyr	Ala	His	Ile	Arg	Arg	Gln	Phe		
			385			390				395					400		
Lys	Ile	Ser	Ile	Gly	Lys	Met	Glu	Gly	Ile	Glu	Glu	Pro	Leu	Ala	Arg		
			405						410					415			
Ile	Ala	Gly	Asn	Ala	Tyr	Val	Met	Asp	Ala	Ala	Ala	Ser	Leu	Ile	Thr		
			420					425					430				
Tyr	Gly	Ile	Met	Leu	Gly	Glu	Lys	Pro	Ala	Val	Leu	Ser	Ala	Ile	Val		
			435				440						445				
Lys	Tyr	His	Cys	Thr	His	Arg	Ala	Gln	Gln	Ser	Ile	Ile	Asp	Ala	Met		
			450			455					460						
Asp	Ile	Ala	Ser	Gly	Lys	Gly	Ile	Met	Leu	Gly	Glu	Gly	Asn	Phe	Leu		
			465			470				475					480		
Ala	Arg	Asn	Tyr	Gln	Gly	Ala	Pro	Ile	Ala	Ile							

Gly Val Gln Asp Ala Leu Tyr Gln Ala Glu Gln Ala Ile Asp Asp Leu
 645 650 655
 Leu Ala Asn Phe Pro Asn Arg Phe Val Ala Gly Ala Leu Arg Val Val
 660 665 670
 Ile Phe Pro Thr Gly Arg His His Leu Ala Pro Ser Asp Lys Leu Asp
 675 680 685
 His Lys Val Ala Lys Ile Leu Gln Val Pro Ser Ala Thr Arg Ser Arg
 690 695 700
 Ile Gly Arg Gly Gln Tyr Leu Ala Pro Thr Pro His Asn Pro Val Gly
 705 710 715 720
 Leu Leu Glu Glu Ala Leu Leu Asp Val Met Ala Ala Asp Pro Ile His
 725 730 735
 Gln Lys Ile Cys Lys Gln Leu Gly Lys Asn Leu Pro Phe Thr Arg Leu
 740 745 750
 Asp Glu Leu Ala Lys Gln Ala Leu Ala Gly Gly Ile Ile Asp Asn Ser
 755 760 765
 Glu Ala Ala Ile Leu Val Lys Ala Glu Glu Ser Arg Leu Arg Ser Ile
 770 775 780
 Asn Val Asp Asp Phe Glu Pro Glu Glu Leu Ala Thr Gln Pro Val Lys
 785 790 795 800
 Leu Pro Glu Lys His Arg Lys Pro Glu Ala Ala
 805 810

<210> 5941

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 5941

Gly Val Gly Ile Val Pro Gly Leu Lys Ile Ser Val Leu Gln Gln Pro
 1 5 10 15
 Leu Val Trp Met Asp Gly Pro Ala Asn Leu Arg His Phe Asp Arg Gln
 20 25 30
 Leu Glu Glu Ile Ser Gly Arg Asp Val Ile Val Leu Pro Glu Met Phe
 35 40 45
 Thr Thr Gly Phe Ala Met Glu Ala Ala Lys Gln Ser Met Pro Gln Asp
 50 55 60
 Glu Val Val Ala Trp Met His Ala Lys Ala Gln Glu Thr Asn Ala Leu
 65 70 75 80
 Ile Ala Gly Ser Val Ala Leu Gln Thr Glu Arg Gly Pro Val Asn Arg
 85 90 95
 Phe Leu Leu Val Glu Pro Glu Gly Lys Val His Phe Tyr Asp Lys Arg
 100 105 110
 His Leu Phe Arg Met Ala Asp Glu His Gln His Tyr Val Ala Gly Asn
 115 120 125
 Glu Arg Val Val Phe Glu Trp Arg Gly Trp Arg Ile Leu Pro Leu Val
 130 135 140
 Cys Tyr Asp Leu Arg Phe Pro Val Trp Ser Arg Asn Arg Asn Asp Tyr
 145 150 155 160
 Asp Leu Ala Leu Tyr Val Ala Asn Trp Pro Ala Pro Arg Ser Leu His
 165 170 175
 Trp Gln Ala Leu Leu Thr Ala Arg Ala Ile Glu Asn Gln Ala Tyr Ile
 180 185 190
 Val Gly Cys Asn Arg Val Gly Thr Asp Gly Asn Gly His His Tyr Arg
 195 200 205
 Gly Asp Ser Arg Val Ile Ser Pro Gln Gly Glu Ile Ile Ala Thr Ala
 210 215 220
 Glu Pro His Gln Ala Thr Arg Ile Asp Ala Glu Leu Ser Leu Thr Ala
 225 230 235 240
 Leu Thr Glu Tyr Arg Glu Lys Phe Pro Ala Trp Gln Asp Ala Asp Arg
 245 250 255

Phe Ser Ile Glu Asn Lys
260

<210> 5942

<211> 166

<212> PRT

<213> *Enterobacter cloacae*

<400> 5942

```

Glu Asp Ile His Trp Ile Phe Leu Val Ser Arg Pro Leu Tyr Pro Leu
1      5      10      15
Ala Val Glu Leu Leu Met Arg Pro Glu Ser Thr Leu Leu Ser Asp Met
20      25      30
Glu Pro Ile Glu Gly Val Ile Asn Ala Ile Arg Ala Gly Ser Glu Arg
35      40      45
Ala Glu Arg Ile Ser Gln Thr Leu Leu Ile Pro Glu Thr Pro Asp Ile
50      55      60
Glu Glu Glu Ser Glu Gln Met Ile Ala Leu Thr His Ser Glu Arg Lys
65      70      75      80
Val Leu Arg Leu Leu Gly Lys Gly Trp Gly Ile Asn Gln Ile Ala Thr
85      90      95
Leu Leu Asn Lys Ser Asn Lys Thr Ile Ser Ala Gln Lys Asn Ser Ala
100     105     110
Met Arg Arg Leu Ser Leu Arg Ser Asn Ala Asp Met Tyr Ala Trp Ile
115     120     125
Ser Ser Thr Gln Gly Met Arg Glu Leu Ser Leu Met Ser Ala Tyr Gly
130     135     140
Glu Phe Glu Glu Trp Lys Arg Pro Leu Gln Gln Asp Ile Ser Pro Ser
145     150     155     160
Ser Lys Ala Ala Gln
165

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<210> 5943

<211> 383

<212> PRT

<213> *Enterobacter cloacae*

<220>

<221> UNSURE

<222> (327)

<400> 5943

```

Glu Arg Pro Lys Arg Thr Tyr Asp Arg Arg Ser Ala Met Ser Ala Asn
1      5      10      15
His Ala Ala Phe Asn Leu Ile Phe Arg Phe Val Glu Asn Tyr Val Ser
20      25      30
Pro Ile Ala Gly Arg Ile Ser Ser Gln Arg His Val Met Ala Ile Arg
35      40      45
Asp Gly Phe Ile Ser Ala Met Pro Phe Met Ile Val Gly Ser Phe Leu
50      55      60
Leu Val Phe Ala Tyr Pro Pro Phe Ser Pro Asp Thr Thr Trp Gly Phe
65      70      75      80
Ala Arg Ala Trp Leu Asp Met Ala Lys Gln Phe Glu Gly Gln Ile Leu
85      90      95
Thr Pro Phe Asp Met Thr Met Gly Val Met Ser Leu Tyr Ile Cys Ala
100     105     110
Ala Ile Ala Tyr Asn Leu Gly Lys His Tyr Val Lys Thr His Gln Leu
115     120     125
Asp Pro Phe Met Cys Ala Met Leu Ser Leu Met Ala Phe Leu Leu Val
130     135     140
Ala Ala Pro Lys Thr Lys Gly Ala Leu Pro Val Asp Ser Leu Gly Gly

```

145 150 155 160
 Thr Gly Ile Phe Thr Ala Ile Leu Val Ala Ile Tyr Cys Val Glu Met
 165 170 175
 Met Arg Phe Leu Lys Ala His Asn Ile Gly Ile Arg Leu Pro Asp Gln
 180 185 190
 Val Pro Pro Met Ile Lys Asn Ser Phe Asp Leu Leu Ile Pro Val Leu
 195 200 205
 Val Val Val Leu Thr Leu Tyr Pro Leu Ser Leu Leu Ile Gln Ser Gln
 210 215 220
 Phe Gly Met Leu Ile Pro Gln Ala Ile Met Ser Ile Phe Lys Pro Leu
 225 230 235 240
 Val Ser Ala Ala Asp Ser Leu Pro Ala Ile Leu Leu Ala Val Leu Ile
 245 250 255
 Gly His Leu Leu Trp Phe Ala Gly Ile His Gly Ala Ala Ile Val Ser
 260 265 270
 Gly Met Leu Gln Met Phe Trp Leu Thr Asn Leu Gly Ala Asn His Thr
 275 280 285
 Ala Leu Ala Ala Asn Gln Pro Leu Pro His Ile Phe Met Glu Ala Phe
 290 295 300
 Trp Thr Phe Phe Ile Val Ile Gly Gly Ser Gly Ala Thr Met Gly Leu
 305 310 315 320
 Val Phe Cys Tyr Leu Arg Xaa Arg Ser Ala His Leu Arg Ser Ile Gly
 325 330 335
 Arg Leu Asn Val Val Pro Ser Ile Phe Asn Ile Asn Glu Pro Val Ile
 340 345 350
 Phe Val Thr Pro Asp Cys Asp Glu Pro Gly Val Leu Tyr Ser Phe Pro
 355 360 365
 Cys Trp Arg Arg Trp Leu Ile Pro Cys Trp His Gly Gln Arg
 370 375 380

<210> 5944

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 5944

Phe Pro Ser Cys Arg Gly Arg His Pro Ala Pro Val Gly Ala Ala Trp
 1 5 10 15
 Ala Leu Gly Trp Asp Phe Arg Ala Ala Ile Leu Val Leu Val Leu Ala
 20 25 30
 Cys Val Ser Ala Ile Ile Tyr Phe Pro Phe Phe Lys Val Tyr Glu Lys
 35 40 45
 Gln Leu Leu Gln Gln Glu Ala Glu Glu Ala Gln Arg Asn Gly Glu Glu
 50 55 60
 Glu Asn Gln Gln Val Ala
 65 70

<210> 5945

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 5945

Gly Met Glu Lys Thr Thr Ala Thr Arg His Ile Ala Val Ile Glu Ser
 1 5 10 15
 Cys Ser Met Ser Ala Val Gly Leu Lys His Leu Phe Ala Met Pro Ser
 20 25 30
 Leu Ser His Tyr Gln Val His Leu Phe Ser Arg Phe Ala Ser Phe Lys
 35 40 45
 Ala Ala Leu Ser Asp Ile Ser Phe Tyr Ala Val Ile Tyr Ser Leu Ser
 50 55 60

Asp Glu Arg Glu Glu Arg Arg Asn Cys Leu Ala Cys Leu Arg Asp Leu
 65 70 75 80
 Thr Phe Thr His Ser Asp Val Gln Arg Ile Val Leu Ala Ser Asp Glu
 85 90 95
 Met Glu Ala Arg Leu Val Ser His Leu Ser Pro Ser Arg Leu His Gly
 100 105 110
 Ile Ile Ser Lys Ser Val Pro Leu Lys Gln Leu Met Glu Gly Leu Lys
 115 120 125
 Thr Leu Leu Ser Glu Thr His Gln Val Asn Asp Asn Met Tyr Asn His
 130 135 140
 Trp Cys Val Ser Gln Asn Arg Met Leu Ser Pro Thr Glu Arg Ala Ile
 145 150 155 160
 Leu Arg Tyr Met Ser Ser Gly Phe Ser Ile Pro Glu Ile Ala Ala Gln
 165 170 175
 Leu Glu Arg Asn Ile Lys Thr Ile Arg Ala His Lys Phe Asn Ala Met
 180 185 190
 Val Lys Leu Gly Val Asn Ser Asp Val Gly Leu Leu Asp Ala Ala Asp
 195 200 205
 Ile Leu Ala His Leu Pro Ala Arg Glu Val Arg Arg Ser Ala Leu Thr
 210 215 220
 Val Pro Ser Phe Ser
 225 230

<210> 5946

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 5946

Arg Leu His Thr Met Ala Thr Arg Thr Ala His Ile Val Glu Pro Leu
 1 5 10 15
 Leu Trp Arg Ala Pro Leu Ser Ala Gly Glu Thr Thr Leu Ala Asp Ala
 20 25 30
 Ile Arg Glu Lys Ile Ala Val Thr Arg Ala His Leu Leu Asp Phe Ile
 35 40 45
 Lys Leu Asp Glu Ala Pro Pro His His Ala Leu Thr Leu Thr Glu Trp
 50 55 60
 Gln Arg Pro Ala Glu Leu Arg Ser Leu Leu Ala Thr Tyr Ser Asp His
 65 70 75 80
 Ile Tyr Arg Asn Gln Pro Thr Leu Thr Arg Glu Asn Lys Pro Leu Leu
 85 90 95
 Ser Leu Trp Ala Gln Trp Tyr Ile Gly Leu Met Val Pro Pro Val Met
 100 105 110
 Leu Ala Leu Leu Thr Gln Glu Thr Met Leu Asp Leu Ser Ser Glu His
 115 120 125
 Phe His Val Glu Phe His Glu Thr Gly Arg Ala Ala Cys Phe Trp Ile
 130 135 140
 Asp Val His Glu Asp Pro Ser Ala Arg His Leu Ser Ala Gln Ala Arg
 145 150 155 160
 Met Glu Arg Leu Ile Thr Arg Ala Leu Val Pro Val Ile Asp Ala Leu
 165 170 175
 Glu Ala Thr Gly Glu Ile Asn Gly Lys Leu Ile Trp Ser Asn Thr Gly
 180 185 190
 Tyr Leu Ile His Trp Tyr Leu Thr Glu Met Lys Pro Leu Leu Gly Asp
 195 200 205
 Glu Lys Val Asp Ala Leu Arg Gln Ser Cys Phe Phe Ala Arg Gln Leu
 210 215 220
 Ser Asp Gly Arg Asp Asn Pro Leu Tyr Arg Thr Val Val Pro Arg Glu
 225 230 235 240
 Gly Leu Leu Val Arg Arg Thr Cys Cys Gln Arg Tyr Arg Leu Pro Asp
 245 250 255

Val Gln Gln Cys Gly Asp Cys Thr Leu Lys
260 265

<210> 5947

<211> 164

<212> PRT

<213> *Enterobacter cloacae*

<400> 5947

```

Gln Ile Thr Gln Asp Ile Cys Gln Glu Glu Ser Met Ser Leu Gln Ser
1      5      10      15
Val Gln Gln Phe Phe Ala Glu His Ala Pro Asp Ile Glu Ile Ile Glu
20      25      30
Leu Asn Gln Ser Thr Ala Thr Val Ala Leu Ala Ala Ala Ala His Asn
35      40      45
Val Glu Pro Gly Gln Ile Ala Lys Thr Leu Ser Leu Lys Ile Lys Asn
50      55      60
Asp Val Ile Leu Val Val Ala Lys Gly Asp Ala Arg Leu Asp Asn Lys
65      70      75      80
Lys Leu Lys Glu Thr Phe Gly Ala Lys Ala Arg Met Leu Ser Ser Asp
85      90      95
Glu Val Val Thr Leu Thr Gly His Pro Val Gly Gly Val Cys Pro Phe
100     105     110
Gly Leu Glu Asn Pro Leu Ser Val Tyr Cys Asp Ile Thr Leu Lys Gln
115     120     125
Tyr Ala Glu Val Leu Pro Ala Ala Gly Ala Ile His Ser Ala Val Arg
130     135     140
Ile Ser Pro Asp Arg Met Ala Glu Leu Thr Ala Ala Lys Trp Val Asp
145     150     155     160
Val Cys Ile

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<210> 5948

<211> 335

<212> PRT

<213> *Enterobacter cloacae*

<400> 5948

```

Ile Ala Ile Leu Pro Gly Pro Cys Cys Tyr Thr Gln Ala Pro Ser Thr
1      5      10      15
Cys Thr Ala Gly Cys Ser Ile Thr Ala Asn Tyr Leu Lys Lys Phe Ile
20      25      30
Met Ser Arg Ile Leu Ala Ala Ile Thr Leu Leu Leu Ser Val Ile Leu
35      40      45
Thr Ile Leu Val Thr Ile Ala Cys Ser Val Pro Ile Ile Val Ala Gly
50      55      60
Ile Ile Lys Leu Leu Leu Pro Val Pro Val Trp Arg Ala Val Ser
65      70      75      80
Ala Phe Cys Asn Phe Met Met Tyr Cys Trp Cys Glu Gly Leu Ala Ile
85      90      95
Leu Leu His Leu Asn Pro Trp Leu Lys Trp Asp Val Gln Gly Leu Glu
100     105     110
Lys Leu Asn Lys Lys Asn Trp Tyr Leu Leu Ile Cys Asn His His Ser
115     120     125
Trp Ala Asp Ile Val Val Leu Cys Val Leu Phe Arg Lys His Ile Pro
130     135     140
Met Asn Lys Tyr Phe Leu Lys Gln Gln Leu Ala Trp Val Pro Phe Ile
145     150     155     160
Gly Leu Ala Cys Trp Ala Leu Asp Met Pro Phe Met Lys Arg Tyr Ser
165     170     175
Arg Ser Tyr Leu Ile Arg His Pro Glu Arg Arg Gly Lys Asp Val Glu

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<400> 5950

Arg Val Ser Leu Asn Glu Arg Ser Thr Thr Met Lys Cys Lys Arg Leu
 1 5 10 15
 Asn Glu Val Ile Glu Leu Leu Gln Pro Ala Trp Gln Lys Glu Pro Glu
 20 25 30
 Leu Asn Leu Met Gln Phe Leu Gln Lys Leu Ala Lys Glu Ser Gly Phe
 35 40 45
 Asp Gly Glu Leu Ala Asp Leu Ser Asp Asp Ile Leu Ile Tyr His Leu
 50 55 60
 Lys Met Arg Asp Ser Ala Lys Asp Ala Val Ile Pro Gly Ile Gln Lys
 65 70 75 80
 Asp Tyr Glu Glu Asp Phe Lys Thr Ala Leu Arg Ala Arg Gly Val
 85 90 95
 Ile Lys Glu
 100

<210> 5951

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 5951

Phe Pro Asp Asp Arg Met Asn Asp Gln Ala Phe Thr Phe Gln Thr Leu
 1 5 10 15
 His Pro Asp Thr Ile Met Asp Ala Leu Phe Glu Gln Gly Ile Arg Val
 20 25 30
 Asp Ser Gly Leu Thr Ala Leu Asn Ser Tyr Glu Asn Arg Val Tyr Gln
 35 40 45
 Phe Gln Asp Glu Glu Arg Gln Arg Phe Val Val Lys Phe Tyr Arg Pro
 50 55 60
 Gln Arg Trp Ser Ala Glu Gln Ile Gln Glu Glu His Gln Phe Ala His
 65 70 75 80
 Asp Leu Leu Asp Asp Asp Val Pro Val Ala Ala Pro Ile Lys Phe Asn
 85 90 95
 Asn Gln Thr Leu Leu Thr His Gln Gly Phe Tyr Tyr Ala Val Phe Pro
 100 105 110
 Ser Leu Gly Gly Arg Gln Phe Glu Ala Asp Asn Ile Asp Gln Met Glu
 115 120 125
 Trp Val Ala Arg Tyr Leu Gly Arg Ile His Gln Thr Gly Arg Lys Lys
 130 135 140
 Pro Phe Val Ala Arg Pro Thr Ile Gly Val Lys Glu Tyr Leu Ile Glu
 145 150 155 160
 Pro Arg Gln Val Phe Glu Thr Ser Ala Leu Ile Pro Asn Ala Leu Lys
 165 170 175
 Asp Asn Phe Leu Thr Ala Thr Asp Lys Leu Ile Asp Ala Val Lys Ala
 180 185 190
 Ser Trp Arg Asp Asp Ile Thr Thr Leu Arg Leu His Gly Asp Cys His
 195 200 205
 Ala Gly Asn Ile Leu Trp Arg Asp Gly Pro Leu Phe Val Asp Leu Asp
 210 215 220
 Asp Ala Arg Met Gly Pro Ala Val Gln Asp Leu Trp Met Leu Leu Asn
 225 230 235 240
 Gly Asp Lys Ala Glu Gln Arg Met Gln Leu Glu Thr Ile Ile Glu Ala
 245 250 255
 Tyr Glu Glu Phe Ile Pro Phe Asn Ser Asp Glu Ile Ala Leu Ile Glu
 260 265 270
 Pro Leu Arg Ala Met Arg Phe Val Tyr Tyr Leu Ala Trp Leu Ile Arg
 275 280 285
 Arg Trp Glu Asp Pro Ala Phe Pro Arg Asn Phe Pro Trp Leu Thr Gly
 290 295 300
 Glu Asp Tyr Trp Arg Asn Gln Ile Ser Thr Phe Thr Glu Gln Val Lys
 305 310 315 320

Val Leu Gln Glu Pro Pro Leu Gln Leu Thr Pro Met Tyr
 325 330

<210> 5952

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 5952

Leu Asp Thr Pro Arg Arg Glu Leu Ile Met Lys Lys Ile Trp Leu Ala
 1 5 10 15
 Leu Ala Gly Met Ile Leu Ala Phe Ser Ala Thr Ala Ala Gln Phe Thr
 20 25 30
 Asp Gly Lys Gln Tyr Ile Thr Leu Asp Lys Pro Val Ala Gly Glu Pro
 35 40 45
 Gln Val Leu Glu Phe Phe Ser Phe Tyr Cys Pro His Cys Tyr Glu Phe
 50 55 60
 Glu Gln Val Leu His Val Ser Asp Asn Val Lys Lys Leu Pro Glu
 65 70 75 80
 Gly Thr Lys Met Thr Lys Tyr His Val Glu Phe Leu Gly Pro Leu Gly
 85 90 95
 Lys Asp Leu Thr Gln Ala Trp Ala Val Ala Ile Ala Leu Gly Val Glu
 100 105 110
 Asp Lys Ile Thr Ala Pro Met Phe Glu Ala Val Gln Lys Thr Gln Thr
 115 120 125
 Val Gln Thr Thr Ala Asp Ile Arg Lys Val Phe Val Asp Ala Gly Val
 130 135 140
 Lys Gly Glu Asp Tyr Asp Ala Ala Trp Asn Ser Phe Val Val Lys Ser
 145 150 155 160
 Leu Val Ala Gln Gln Glu Lys Ala Ala Asp Phe Gln Leu Gln Gly
 165 170 175
 Val Pro Ala Met Tyr Val Asn Gly Lys Tyr Gln Val Asn Met Arg Gly
 180 185 190
 Met Asp Thr Thr Ser Met Asp Ile Phe Val Gln Gln Tyr Ala Asp Thr
 195 200 205
 Val Lys Tyr Leu Val Glu Lys Lys
 210 215

<210> 5953

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 5953

Asp Ala Gln Pro Ala Asn Leu Leu His Arg Gly Arg Lys Arg Ser Ala
 1 5 10 15
 Trp Thr Ile Pro Glu Gly Ala Thr Ala Pro Gln Ala Ala Asp Lys Ile
 20 25 30
 His Thr Asp Phe Val Lys Gly Phe Ile Arg Thr Gln Thr Ile Val Phe
 35 40 45
 Glu Asp Phe Ile Thr Tyr Lys Gly Glu Gln Gly Ala Lys Glu Thr Gly
 50 55 60
 Lys Met Arg Ala Glu Gly Lys Asp Tyr Ile Ile Lys Asp Gly Asp Val
 65 70 75 80
 Met Asn Phe Leu Phe Asn Leu
 85

<210> 5954

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 5954

Cys Gln Arg Met Thr Phe Ser Cys Val Arg Arg Leu Cys Val Thr Phe
 1 5 10 15
 Ser Ala Glu Ser Ser Ser Gly Lys Gly Ser Val Glu Val Ala Val Tyr
 20 25 30
 Ala Ala Val Glu Ser Asp Ile Ala Glu Ile Ile Asp Gly Asp His Lys
 35 40 45
 Glu Phe Met Ala Glu Arg Gly Leu Asn Arg Val Ile Arg Ala Gly Tyr
 50 55 60
 Glu Leu Leu Ser Leu Gln Thr Tyr Phe Thr Ala Gly Val Lys Glu Val
 65 70 75 80
 Asn Ala

<210> 5955

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 5955

Arg Gln Arg Met Pro Phe Ser Cys Val Arg Arg Leu Cys Val Thr Phe
 1 5 10 15
 Ser Ala Asp Ser Ser Ser Asp Lys Gly Ser Val Val Val Ala Phe Trp
 20 25 30
 Asn Ala Val Glu Ser Asp Ile Ala Glu Met Asn Asp Ala Asp Arg Glu
 35 40 45
 Asp Phe Met Ala Glu Gln Gly Leu Asn Arg Val Ile Arg Ala Gly His
 50 55 60
 Glu Met Leu Ser Leu Gln Thr Tyr Phe Thr Ala Gly Val Lys Glu Val
 65 70 75 80
 Arg Gly Pro Ser Leu Arg Val Arg Leu Arg Leu Arg Arg Pro Ile Lys
 85 90 95
 Ser Thr Pro Ile Ser
 100

<210> 5956

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 5956

Val Cys Arg Leu Ser Ile Ser Trp Pro Ala Arg Ile Thr Arg Phe Arg
 1 5 10 15
 Pro Cys Ser Ala Met Lys Ser Ser Arg Ser Ala Ser Phe Ile Ser Ala
 20 25 30
 Ile Ser Asp Ser Thr Ala Phe Gln Asn Ala Thr Thr Thr Glu Pro Leu
 35 40 45
 Ser Leu Glu Glu Ser Ala Glu Lys Val Thr His Asn Arg Leu Thr Gln
 50 55 60
 Leu Asn Gly Ile Arg Trp Arg Tyr Asp Ile His Gly Arg Thr Val Glu
 65 70 75 80
 Lys Asp Asn Gly Gln Thr Arg Trp His Tyr Arg Tyr Asp Gly Glu His
 85 90 95
 Arg Leu Thr Glu Val Ile Ser Gln Pro Arg Asp Arg Asn Arg Pro Gln
 100 105 110
 Thr Leu Val Ser Phe Arg Tyr Asp Pro Leu Gly Arg Arg Ile Ser Lys
 115 120 125
 Thr Arg Arg Gln Met Leu Gly Gly Gln Pro Thr Gly Lys Pro Val Thr
 130 135 140
 Thr Arg Phe Val Trp Glu Gly Phe Arg Leu Leu Gln Glu Val His Gly

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<210> 5957
<211> 268
<212> PRT
<213> Enterobacter cloacae

<400> 5957
Thr Gln Lys Ile Ser Leu Ser Leu Lys Glu Leu Leu Lys Val Gly Gly
1      5      10      15
Val Val Val Glu Val Lys Ile Tyr Tyr Lys Gly Ser Val Asp Phe Ile
20      25      30
Ala Gly Glu Gly Thr Ile Leu Asn Asn Glu Phe Ile Gly Glu Val Ala Thr
35      40      45
Arg Gln Ile Asn Ile Ile Asp Gly Asn Tyr Tyr Ala Ser Ser Ser Leu
50      55      60
Leu Asp Lys Lys Glu Lys Val Gly Phe Leu Leu Tyr Asp Gly Lys Lys
65      70      75      80
Ser Asp Leu Asn Leu Ser Asp Ala Glu Glu Ile Ser Asn Glu Glu Phe
85      90      95
Glu Val Phe Trp Gln Thr Ser Thr Gly Ser Leu Gln Glu Lys Lys Arg
100     105     110
Ile Lys Tyr Leu Ser Gly Asp Ala Val Glu Pro Leu Lys Lys Ser Thr
115     120     125
Val Ile Ala His Ile Val Asn Asn Lys Gly Lys Trp Gly Lys Gly Phe

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```

      130              135              140
Val Leu Ser Leu Ser Asn Lys Tyr Pro Ala Ala Lys Lys Ser Tyr Leu
145              150              155              160
Ser Cys Phe Lys Glu Asn Asn Phe Pro Glu Leu Gly Val Val Asp Phe
      165              170              175
Val Met Val Asp Ala Gln Glu Lys Ile Phe Ile Ala Asn Met Tyr Ala
      180              185              190
Gln Asp Gly Ile Lys Lys Asn Ile Asn Asp Lys Lys Gln Tyr Val Cys
      195              200              205
Tyr Asp Ser Leu Lys Val Cys Leu Glu Lys Leu Ser Asp Phe Ala Leu
      210              215              220
Val Asn Arg Leu Ser Ile Gln Met Pro Arg Ile Gly Ala Gly Leu Gly
      225              230              235              240
Gly Gly Asp Trp Asn Val Ile Glu Ser Leu Ile Leu Lys Asn Ile Cys
      245              250              255
Tyr Lys Met Ile Asp Cys Asn Val Ile Thr Leu
      260              265

```

<210> 5958

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 5958

```

Ser Phe Lys Glu Gln Arg Met Leu Ile Leu Thr Arg Arg Val Gly Glu
1              5              10              15
Thr Leu Met Ile Gly Asp Glu Val Thr Val Thr Val Leu Gly Val Lys
      20              25              30
Gly Asn Gln Val Arg Ile Gly Val Asn Ala Pro Lys Glu Val Ser Val
      35              40              45
His Arg Glu Glu Ile Tyr Gln Arg Ile Gln Ala Glu Lys Ser Gln Gln
      50              55              60
Ser Ser Tyr
65

```

<210> 5959

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 5959

```

Ile Gln Phe Gly Asn Thr Lys Gly Ala His Lys Arg Phe Asp Asn Leu
1              5              10              15
Gly Arg Trp Gly Thr Pro Ala Leu Ala Val Arg Ala Thr Glu Ile Phe
      20              25              30
Leu Arg Ser Trp Arg Pro His Tyr Gly Ala Ala Leu Pro Gly Ser Ala
      35              40              45
Glu Glu Asp Gly Asp Arg Tyr Ile Glu Ile Trp Asn Ile Val Phe Met
      50              55              60
Gln Phe Asn Arg Gln Ala Asp Gly Thr Met Glu Pro Leu Pro Lys Thr
      65              70              75              80
Val Arg Arg Tyr Arg Tyr Gly Pro
      85

```

<210> 5960

<211> 707

<212> PRT

<213> Enterobacter cloacae

<400> 5960

```

Ala Gly Gly Gly Pro Arg Pro Leu Arg Tyr Val Pro Pro Arg Phe Phe

```

1	5	10	15
Tyr Asp His Gly Asp His Ile Met Gly Arg Pro Ser Arg Glu Ala Arg	20	25	30
Lys Lys Met Ala Ile Ala Ile Leu Arg Ser Gly Thr Leu Ser Ser Cys	35	40	45
Ser Ser Thr Val Arg Arg Thr Ala Pro Trp Ser Arg Cys Pro Lys Pro	50	55	60
Ser Val Asp Thr Gly Met Gly Leu Glu Arg Ile Ala Ala Val Leu Gln	65	70	75
His Val Asn Ser Asn Tyr Glu Ile Asp Leu Phe Ser Thr Leu Ile Lys	85	90	95
Ala Val Ala Glu Val Thr Gly Ala Thr Asp Leu Ser Asn Lys Ser Leu	100	105	110
Arg Val Ile Ala Asp His Ile Arg Ser Cys Ala Phe Leu Ile Ala Asp	115	120	125
Gly Val Ile Pro Ser Asn Glu Asn Arg Gly Tyr Val Leu Arg Arg Ile	130	135	140
Ile Arg Arg Ala Ile Arg His Gly Asn Met Leu Gly Ala Lys Asp Thr	145	150	155
Phe Phe Tyr Lys Leu Val Gly Pro Leu Ile Gly Val Met Gly Ser Ala	165	170	175
Gly Asp Glu Leu Lys Arg Gln Gln Ala Gln Val Glu Gln Val Leu Lys	180	185	190
Thr Glu Glu Glu Gln Phe Ala Arg Thr Leu Glu Arg Gly Leu Ala Leu	195	200	205
Leu Asp Asp Glu Leu Ala Lys Leu Lys Gly Asp Thr Leu Asp Gly Glu	210	215	220
Thr Ala Phe Arg Leu Tyr Asp Thr Tyr Gly Phe Pro Val Asp Leu Thr	225	230	235
Ala Asp Val Cys Arg Glu Arg Asn Ile Lys Val Asp Glu Ala Gly Phe	245	250	255
Glu Ala Ala Met Glu Glu Gln Arg Arg Arg Ala Arg Glu Ser Ser Gly	260	265	270
Phe Gly Ala Asp Tyr Asn Ala Met Ile Arg Val Asp Ser Ala Ser Glu	275	280	285
Phe Lys Gly Tyr Glu Glu Leu Ala Leu Thr Ser Asn Val Thr Ala Leu	290	295	300
Phe Val Asp Gly Lys Ala Val Asp Ser Ile Ser Ala Gly Gln Asp Ala	305	310	315
Val Val Ile Leu Asp Lys Thr Pro Phe Tyr Ala Glu Ser Gly Gly Gln	325	330	335
Val Gly Asp Lys Gly Glu Leu Lys Gly Asn Gly Phe Ser Phe Ser Val	340	345	350
Ser Asp Thr Gln Lys Tyr Gly Gln Ala Ile Gly His Gln Gly Lys Leu	355	360	365
Val Ser Gly Ser Leu Lys Val Gly Glu Gly Val Gln Ala Asn Val Asp	370	375	380
Glu Ala Arg Arg Ala Arg Ile Arg Leu Asn His Ser Ala Thr His Leu	385	390	395
Met His Ala Ala Leu Arg Glu Val Leu Gly Thr His Val Ala Gln Lys	405	410	415
Gly Ser Leu Val Asn Asp Lys Val Leu Arg Phe Asp Phe Ser His Phe	420	425	430
Glu Ala Met Lys Pro Ser Glu Ile Arg Ala Val Glu Asp Leu Val Asn	435	440	445
Ala Gln Ile Arg Arg Asn Leu Pro Ile Glu Thr His Ile Met Asp Leu	450	455	460
Glu Ala Ala Lys Lys Lys Gly Ala Met Ala Leu Phe Gly Glu Lys Tyr	465	470	475
Asp Asp Arg Val Arg Val Leu Ser Met Gly Asp Phe Ser Thr Glu Leu	485	490	495

Cys Gly Gly Thr His Ala Ser Arg Thr Gly Asp Ile Gly Leu Phe Arg
 500 505 510
 Ile Val Ser Glu Ser Gly Thr Ala Ala Gly Val Arg Arg Ile Glu Ala
 515 520 525
 • Val Thr Gly Glu Gly Ala Ile Ala Ser Leu His Ala Gln Ser Asp Gln
 530 535 540
 Leu His Glu Ile Ala Gln Leu Leu Lys Gly Asp Ser Gln Asn Leu Gly
 545 550 555 560
 Glu Lys Val Arg Val Ala Leu Asp Arg Thr Arg Gln Leu Glu Lys Glu
 565 570 575
 Leu Gln Gln Leu Lys Glu Gln Ala Ala Ala Gln Glu Ser Ala Asn Leu
 580 585 590
 Ser Ser Lys Ala Val Asp Ile Lys Gly Val Lys Leu Leu Val Ser Asp
 595 600 605
 Leu Ala Gly Val Glu Pro Lys Met Leu Arg Thr Met Val Asp Asp Leu
 610 615 620
 Lys Asn Gln Leu Gly Ser Thr Val Ile Val Leu Ala Thr Val Ala Glu
 625 630 635 640
 Gly Lys Val Ser Leu Ile Ala Gly Val Ser Lys Asp Val Thr Asp Arg
 645 650 655
 Val Lys Ala Gly Glu Leu Ile Gly Met Val Ala Gln Gln Val Gly Gly
 660 665 670
 Lys Gly Gly Gly Arg Pro Asp Met Ala Gln Ala Gly Gly Thr Asp Ala
 675 680 685
 Ala Ala Leu Pro Ala Ala Leu Ala Ser Val Glu Ser Trp Val Ser Ala
 690 695 700
 Lys Leu
 705

<210> 5961

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 5961

Val Ser Pro Leu Ile Gln Leu Leu Asp Arg Pro Ile Ala Tyr Gln Pro
 1 5 10 15
 Ala Phe Ala Gln Leu Arg Ala Gly Lys Val Ser Gly Pro Ala Ala
 20 25 30
 Ala Val Leu Ser Gln Leu Val Tyr Trp His Asn Arg Met Asp Gly
 35 40 45
 Glu Trp Leu Tyr Lys Thr Arg Glu Asp Ile Lys Lys Glu Thr Gly Leu
 50 55 60
 Ser Arg Asp Glu Gln Glu Thr Ala Arg Lys Arg Leu Val Ala Leu Gly
 65 70 75 80
 Val Leu Gln Glu Asp Leu Arg Gly Val Pro Ala Thr Val His Tyr Arg
 85 90 95
 Ile Asn Thr Glu Arg Leu Glu Ala Leu Leu Leu Ala Pro Gly Gln Ala
 100 105 110
 Glu Ser Gln Leu Gly Ala Thr Pro Pro Thr Arg Arg Arg Gln Pro Arg
 115 120 125
 Gln Gln Asp Gly Gly Asn Ala Pro Asn Lys Met Val Glu Thr Pro Pro
 130 135 140
 Thr Arg Arg Val Glu Pro Thr Gln Gln Val Gly Trp Val Pro Ala Asn
 145 150 155 160
 Phe Pro Thr Gly Asp Tyr Thr Glu Ile Thr Gln Glu Ser Thr Gln Glu
 165 170 175
 Ile Thr Gln Lys Ala Gly Glu Lys Asn Ser Val Asp Asn Phe Ser Glu
 180 185 190
 Ile Tyr Pro Glu Ala Glu Ile Phe Asp Ala Glu Lys Lys Thr Trp Gly
 195 200 205

Thr Ala Glu Asp Leu Glu Phe Ala Gln Trp Phe Phe Ala Arg Ile Val
 210 215 220
 Glu Leu His Glu Lys Ala Ala Glu Tyr Asp Gly Met Leu Ser Arg Pro
 225 230 235 240
 Lys Glu Pro Asp Trp Thr Gly Trp Ala Asp Glu Val Arg Gln Leu Arg
 245 250 255
 Glu Gly Gln Arg Cys Asp His Gln Ala Asp Ala Lys Pro Gly Arg Ala
 260 265 270
 Tyr Ser Ala Arg Pro Val Gly Gly Ala Arg Arg Phe Arg Leu Pro Lys
 275 280 285
 Cys Cys Thr Pro Asn Gly Gln Asn Trp Ser
 290 295

<210> 5962

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 5962

Met Glu Thr Val Leu Asp Val Leu Lys Ala Met Gly Lys Thr Thr Tyr
 1 5 10 15
 Arg Asp Val Ala Ala Arg Leu Asp Ile Glu Pro Val Val Ala Leu Asn
 20 25 30
 Met Leu Arg Glu Gln Lys Glu Gln Gly Leu Cys Asp Tyr Ala Asp Gly
 35 40 45
 Gly Trp Phe Leu Gly Thr Ala Ala Lys Gln Lys Pro Lys Arg Ile Arg
 50 55 60
 Pro Lys Gln Glu Ser Glu Leu Val Gly Arg Ile Leu Ala Val Met Gln
 65 70 75 80
 Gly Gln Gly Ala Ile Ser Ala Glu Lys Ile Ala Lys Leu Leu Gly Lys
 85 90 95
 Thr Ser Arg Ala Leu Asn Ala Ser Leu Gly Ala Leu Gly Lys Glu Gly
 100 105 110
 Arg Val Val Arg His Val Asp Gly Lys Asn Ile Thr Trp Ser Leu Lys
 115 120 125
 Asn Asp Asp Ala Pro Ala Pro Ala Thr Ala Ala Pro Ile Ala Asn Ala
 130 135 140
 Arg Gln Ala Glu Ser Ala Leu Ala Glu Lys Ser Thr Ala Gln Ile Ile
 145 150 155 160
 Glu Glu Ile Pro Ala Phe Thr Ala Arg Pro Asn Asp Leu Ala Ile Pro
 165 170 175
 Ser Ser Arg Phe Ile Ser Ser Glu Ile Arg Arg Thr Lys Ala Lys Leu
 180 185 190
 Ala Ser Leu Gln Lys Leu Gln Cys Ala Ala Arg Gln Leu Arg Arg His
 195 200 205
 Lys His Leu Leu Val Gly Leu Asp Asn Glu
 210 215

<210> 5963

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 5963

Leu Met Glu Ile Lys His Glu His Ile Gln Cys Val Leu Leu Ala Trp
 1 5 10 15
 Ala Ala Glu Val Gly Gln Ala His Ala Ala Glu Ala Ile Thr Ala Glu
 20 25 30
 Tyr Thr Arg Gln Gly Gly Ala Glu Leu Pro Leu Val Ala Gly Asn Thr
 35 40 45
 Trp Asn Asn Gln Gln Asn Ile Phe His Arg Trp Leu Asp Gly Ser Thr

50 55 60
 Pro Gln Arg Arg Ala Lys Ile Arg Glu Leu Leu Pro Ala Ile Leu Ala
 65 70 75 80
 Val Leu Pro Arg Ser Ile Arg His Arg Leu Ser Ile Tyr Asp Thr Ile
 85 90 95
 Glu Arg Arg Ala Leu Leu Ala Ala Gln Asp Ala Leu Gly Ala Ala Ile
 100 105 110
 Asp Ala His Asp Asp Ala Val Glu Ala Leu Phe Gln Lys Val Met Gln
 115 120 125
 His Ala Ala Ala Asp Ser Pro Lys Phe His
 130 135

<210> 5964

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 5964

Val His Arg Gly Asp Val Val Ser Val Lys Cys Cys Gly Cys Gln Glu
 1 5 10 15
 Leu Leu Glu Glu Asp Glu Val Phe Lys Leu Ala Asp Ser Cys Gly Val
 20 25 30
 Asp Ile Cys Asp Arg Cys Ala Ser Arg Val Val His Ser Tyr Asn Glu
 35 40 45
 Trp His Gly Gly Phe Ser Tyr Ala Pro Val Lys Gln Lys Asn Pro Arg
 50 55 60
 Lys Ser Ile Ser Ala Ala Val Lys Leu Lys Ile Phe Gln Arg Asp Gly
 65 70 75 80
 Phe Arg Cys Lys His Cys Gly Thr Ser Glu Ala Leu Thr Ile Asp His
 85 90 95
 Ile Gln Pro Val Ser Lys Gly Gly Ser Asn Gln Asp Glu Asn Leu Gln
 100 105 110
 Thr Leu Cys Ala Ser Cys Asn Ser Arg Lys Gly Val Lys
 115 120 125

<210> 5965

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 5965

Arg Lys Asn Gly Leu Ala Tyr Ile Asn Ala Val Tyr Pro Phe Asn Phe
 1 5 10 15
 Ile Ile Pro Leu Gly Ile Ser Ala Cys Leu Ala Tyr Ile Leu Pro Ile
 20 25 30
 Ile Asn Glu Lys Ile Thr Tyr Leu Gln Ser Arg Pro Ile Ser Arg Thr
 35 40 45
 Ala Ile Leu Leu Ser Ile Arg Ala Lys Lys Ala Leu Val Ala Asp Ile
 50 55 60
 Ser Leu Glu Lys Tyr Arg Ala Lys Arg Asp Val Thr Tyr Glu Arg His
 65 70 75 80
 Val Ala Gly Ala Glu Lys Glu Ile Gln Asp Met Arg Glu Glu Ile Val
 85 90 95
 Asn Ser Lys Glu Arg Val Gly Glu Met Asn Ala Ala Leu Leu Glu Leu
 100 105 110
 Asn Gln Lys Asn Asp Glu Ile Asn Ala Leu Leu Gln Asp Ser Asn Ile
 115 120 125
 Arg Asn Lys Lys Leu Ser Asp Glu Ile Glu Arg His Lys Ile Ala Glu
 130 135 140
 Thr Arg Phe Phe Gly Glu Ile Glu Asp Leu Asn Lys Glu Leu Asp Arg
 145 150 155 160

Leu Tyr Ser Leu Leu Lys Met Glu Pro Thr Arg Gly Val Gly Leu Gly
 165 170 175
 Ile Arg Lys Ile Thr Thr Ile Asn Gly Glu Glu Asn Ser Asp Thr Asp
 180 185 190
 Asp Thr Gln Tyr Arg Pro Gly Ser Asn Glu Asp Lys
 195 200 205

<210> 5966

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 5966

Val Ala Asn Met Gln Thr Pro His Ile Leu Ile Val Glu Asp Glu Leu
 1 5 10 15
 Val Thr Arg Asn Thr Leu Lys Ser Ile Phe Glu Ala Glu Gly Tyr Asp
 20 25 30
 Val Phe Glu Ala Thr Asp Gly Ala Glu Met His Gln Ile Leu Ser Glu
 35 40 45
 Asn Asp Ile Asn Leu Val Ile Met Asp Ile Asn Leu Pro Gly Lys Asn
 50 55 60
 Gly Leu Leu Leu Ala Arg Glu Leu Arg Glu Gln Ala Asn Val Ala Leu
 65 70 75 80
 Met Phe Leu Thr Gly Arg Asp Asn Glu Val Asp Lys Ile Leu Gly Leu
 85 90 95
 Glu Ile Gly Ala Asp Asp Tyr Ile Thr Lys Pro Phe Asn Pro Arg Glu
 100 105 110
 Leu Thr Ile Arg Ala Arg Asn Leu Leu Ser Arg Thr Met Asn Leu Gly
 115 120 125
 Thr Val Ser Glu Glu Arg Arg Ser Val Asp Ser Tyr Lys Phe Asn Gly
 130 135 140
 Trp Glu Leu Asp Ile Asn Ser Arg Ser Leu Ile Ser Pro Asn Gly Glu
 145 150 155 160
 Gln Tyr Lys Leu Pro Arg Ser Glu Phe Arg Ala Met Leu His Phe Cys
 165 170 175
 Glu Asn Pro Gly Lys Ile Gln Ser Arg Ala Glu Leu Leu Lys Lys Met
 180 185 190
 Thr Gly Arg Glu Leu Lys Pro His Asp Arg Thr Val Asp Val Thr Ile
 195 200 205
 Arg Arg Ile Arg Lys His Phe Glu Ser Thr Pro Asp Thr Pro Glu Ile
 210 215 220
 Ile Ala Thr Ile His Gly Glu Gly Tyr Arg Phe Cys Gly Asp Leu Gln
 225 230 235 240
 Glu

<210> 5967

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 5967

Met His Leu Ser Ile Val Leu Val Ala Pro Ala Arg Ala Glu Asn Ile
 1 5 10 15
 Gly Ala Ala Ala Arg Ala Met Lys Thr Met Gly Phe Thr Asp Leu Arg
 20 25 30
 Ile Val Asp Ser Thr Ala His Leu Glu Pro Ala Ala Arg Trp Val Ala
 35 40 45
 His Gly Ser Gly Asp Ile Leu Asp Asn Ile Thr Thr Tyr Ala Thr Leu
 50 55 60
 Ala Asp Ala Leu His Asp Ile Ser Phe Thr Val Ala Thr Thr Ala Arg

65 70 75 80
 Ser Arg Ala Lys Phe His Tyr Tyr Ala Thr Pro Ala Glu Leu Val Pro
 85 90 95
 Met Leu Glu Glu Lys Ser Gln Trp Leu Glu Lys Ala Ala Leu Val Phe
 100 105 110
 Gly Arg Glu Asp Ser Gly Leu Thr Asn Glu Glu Leu Ala Leu Ala Asp
 115 120 125
 Val Leu Thr Gly Ala Pro Met Val Ala Asp Tyr Pro Ser Leu Asn Leu
 130 135 140
 Gly Gln Ala Val Met Val Tyr Cys Tyr Gln Leu Ala Ser Leu Ile Gln
 145 150 155 160
 Ile Ser Gln Pro Pro Val Thr Val Ser Asp Glu Asn Gln Leu Ala Ala
 165 170 175
 Leu Arg Val Arg Ala Asp Lys Leu Leu Ala Gln Leu Gly Val Ala Asp
 180 185 190
 Asp Gln Lys Met Val Asp Trp Leu Gln Gln Arg Leu Gly Arg Leu Glu
 195 200 205
 Gln Arg Asp Thr Val Met Leu His Arg Leu Leu His Asp Ile Glu Lys
 210 215 220
 Lys Leu Ala Glu
 225

<210> 5968
 <211> 160
 <212> PRT
 <213> Enterobacter cloacae

<400> 5968
 Gly Asn Asn Met Lys Tyr Lys Val Leu Val Phe Ala Ala Leu Ala Leu
 5 10 15
 Met Ala Gly Arg Val Ala Gln Ala Glu Gln Ile Gly Ser Val Asp Thr
 20 25 30
 Val Phe Lys Met Phe Gly Pro Asp His Lys Ile Val Val Glu Ala Phe
 35 40 45
 Asp Asp Pro Asp Val Lys Asn Val Thr Cys Tyr Val Ser Arg Ala Lys
 50 55 60
 Thr Gly Gly Ile Lys Gly Gly Leu Gly Leu Ala Glu Asp Thr Ser Asp
 65 70 75 80
 Ala Ala Ile Ser Cys Gln Gln Val Gly Pro Val Glu Leu Ser Asp Lys
 85 90 95
 Ile Lys Asn Gly Lys Ala Gln Gly Asp Val Val Phe Gln Lys Arg Thr
 100 105 110
 Ser Leu Val Phe Lys Lys Leu Gln Val Val Arg Phe Tyr Asp Ala Lys
 115 120 125
 Arg Asn Thr Leu Ala Tyr Leu Ala Tyr Ser Asp Lys Val Val Glu Gly
 130 135 140
 Ser Pro Lys Asn Ala Ile Ser Ala Val Pro Ile Met Pro Trp His
 145 150 155 160

<210> 5969
 <211> 288
 <212> PRT
 <213> Enterobacter cloacae

<400> 5969
 Lys Lys Cys Leu Ser Ala Leu Arg Gln Ile Leu Glu Lys Ser Thr Arg
 1 5 10 15
 Leu Ile Met Ser Gly Ser Ser Gln Asp Asp Phe Thr Gly Ala Asp Met
 20 25 30
 Phe Arg Arg Leu Arg Asp Ile Ile Lys Arg Gly Val Val Lys Glu Val
 35 40 45

Gln Met Gln Pro Pro Arg Val Arg Val Thr Phe Gly Gly Glu His Gln
 50 55 60
 Ser Gly Trp Leu Gln Trp Phe Thr Leu Ala Thr Ser Glu Arg Val Asp
 65 70 75 80
 Trp Ser Ala Pro Lys Val Gly Asp Pro Val Pro Pro Asn Ser Thr Ala
 85 90 95
 Ala Glu Arg Ala Leu Glu Ala Val Leu Ser His Val Gly Asp Leu Pro
 100 105 110
 Gly Asp Ile Arg Ile Ile Lys Asn Pro Asp Leu Cys Pro Val Asp Leu
 115 120 125
 Leu Pro Trp Leu Ala Trp Glu Tyr Ala Val Thr Tyr Trp Asn Ser Gly
 130 135 140
 Trp Ser Glu Gln Gln Lys Arg Gln Val Ile Lys Ala Ala Trp Gln
 145 150 155 160
 Asn Lys His Arg Gly Thr Arg Gly Ala Val Glu Arg Ala Leu Leu Thr
 165 170 175
 Val Gly Tyr Glu Ser Gln Leu Gln Glu Trp Phe Glu Lys Val Pro Lys
 180 185 190
 Gly Asp Pro Tyr Thr Phe Gly Ile Lys Ile Tyr Leu Leu Lys Gln Met
 195 200 205
 Gly Met Asp Leu Asp Leu Leu Asn Thr Phe Ile Ala Gln Ile Phe Asp
 210 215 220
 Ala Lys Asn Cys Arg Ser Leu Leu Glu Ser Ile Asn Phe Glu Ala Glu
 225 230 235 240
 Ile Asp Gly Glu Phe Tyr Ile Ala Gly Thr Thr Ala Ala Asp Val Val
 245 250 255
 Val Glu Ile Pro Ala Glu Asp Glu Gly Gly Val Lys Val Asn Gly Ser
 260 265 270
 Leu Phe Ile Ser Gly Val Pro Thr Ala His Ile Thr Val Glu Ile
 275 280 285

<210> 5970

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 5970

Gly Gly Ser Lys Ser Lys Arg Leu Pro Val Tyr Phe Gly Cys Thr Asp
 1 5 10 15
 Ser Ser Tyr His Ser Gly Asn Ile Glu Met Val Gln Lys Arg Thr Ala
 20 25 30
 Leu Lys Ser Ala Thr Ser Thr Pro Asp Asp Lys Ile Tyr Ala Ile Leu
 35 40 45
 Thr Asp Arg Gly Ala Glu Leu Glu Ala Ala Leu Ala Thr Gly Val
 50 55 60
 Pro Val Lys Leu Thr Lys Phe Val Ile Gly Asp Ala Asn Gly Gln Glu
 65 70 75 80
 Glu Val Thr Pro Asp Pro Ala Arg Thr Ala Leu Ile His Glu Val Tyr
 85 90 95
 Arg Gly Asp Ile Asn Gly Ala Glu Ser Lys Gly Asn Gln Val Thr Phe
 100 105 110
 Thr Leu Asp Val Pro Pro Glu Thr Gly Gly Tyr Thr Ile Arg Glu Val
 115 120 125
 Gly Ile Leu Thr Glu Ala Gly Glu Leu Tyr Ser Val Ala Arg Ser Pro
 130 135 140
 Asp Ile Leu Lys Pro Thr Glu Ser Asn Gly Ala Val Ile Ser Ile Thr
 145 150 155 160
 Phe Lys Tyr Ile Leu Ala Val Ser Ser Thr Ser Thr Val Thr Val Val
 165 170 175
 Val Tyr Asn Asp Tyr Leu Thr Pro Asp Ala Ala Asp Ala Arg Tyr Leu
 180 185 190

Lys Val Asn Ala Asn Leu Lys Glu Ile Ala Asp Asn Gly Ala Ser Ser
 195 200 205
 Gln Gln Leu Ala Arg Lys Asn Ile Gly Ile Asp Gly Asp Ile Ala Tyr
 210 215 220
 Arg Asp Lys Glu Asn Ile Phe Thr Lys Lys Asn Thr Phe Gly Glu Ile
 225 230 235 240
 Leu Tyr Val Asn Lys Ser Ile Val Leu Ser Gly Asp Trp Ala Val Ser
 245 250 255
 Trp Ser Leu Ala Gly Ala Tyr Ile Glu Ala Tyr Leu Val His Ser Lys
 260 265 270
 Leu Pro Asp Arg Leu Phe Ser Thr
 275 280

<210> 5971

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 5971

Arg Cys Arg Ala Ala Leu Leu Gln Ala Ile Leu Asp Gly Val Ala Gln
 1 5 10 15
 His Gly Pro Tyr Phe Val Ile Ala Pro Gly Leu Ala Met Pro His Gly
 20 25 30
 Arg Pro Glu Glu Gly Val Lys Lys Thr Gly Phe Ala Leu Val Thr Leu
 35 40 45
 Lys Thr Pro Leu Val Phe Asn His Glu Asp Asn Asp Pro Val Asp Ile
 50 55 60
 Leu Ile Thr Met Ala Ala Val Asp Ala Asn Thr His Gln Glu Val Gly
 65 70 75 80
 Ile Met Gln Ile Val Asn Leu Phe Asp Asp Glu Ala Asn Phe Asp Arg
 85 90 95
 Leu Arg Ala Cys Arg Thr Ala Gln Asp Val Leu Asp Leu Ile Asp Asn
 100 105 110
 Ala Thr Ala Ala Ala Val
 115

<210> 5972

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 5972

Glu Glu Leu Lys Met Ser Leu Pro Met Leu Gln Val Ala Leu Asp Asn
 1 5 10 15
 Gln Thr Leu Ser His Ala Tyr Glu Thr Thr Arg Leu Ile Ala Glu Glu
 20 25 30
 Val Asp Ile Ile Glu Val Gly Thr Ile Leu Cys Val Gly Glu Gly Val
 35 40 45
 Arg Ala Val Arg Asp Leu Lys Ala Leu Tyr Pro His Lys Ile Val Leu
 50 55 60
 Ala Asp Ala Lys Ile Ala Asp Ala Gly Lys Ile Leu Ser Arg Met Cys
 65 70 75 80
 Phe Glu Ala Asn Ala Asp Trp Val Thr Val Ile Cys Cys Ala Asp Ile
 85 90 95
 Asn Thr Ala Lys Gly Ala Leu Asp Val Ala Lys Glu Phe Asn Gly Asp
 100 105 110
 Val Gln Ile Glu Leu Thr Gly Phe Trp Thr Trp Glu Gln Ala Gln Glu
 115 120 125
 Trp Arg Glu Ala Gly Ile Gln Gln Val Val Tyr His Arg Ser Arg Asp
 130 135 140
 Ala Gln Ala Ala Gly Val Ala Trp Gly Glu Ala Asp Ile Ser Ala Ile

145 150 155 160
 Lys Arg Leu Ala Asp Met Gly Phe Lys Val Thr Gly Gly Leu
 165 170 175
 Ala Leu Glu Asp Leu Pro Leu Phe Lys Gly Ile Pro Ile His Val Phe
 180 185 190
 Ile Ala Gly Arg Ser Ile Arg Asp Ala Glu Ser Pro Val Glu Ala Ala
 195 200 205
 Arg Gln Phe Lys Arg Ser Ile Ala Gln Leu Trp Gly
 210 215 220

<210> 5973

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 5973

Gly Ala Gly Met Leu Ser Lys Gln Val Pro Leu Gly Ile Tyr Glu Lys
 1 5 10 15
 Ala Leu Pro Ala Gly Glu Cys Trp Leu Glu Arg Leu Gln Leu Ala Lys
 20 25 30
 Gln Leu Gly Phe Asp Phe Val Glu Met Ser Leu Asp Glu Thr Asp Glu
 35 40 45
 Arg Leu Ala Arg Leu Asp Trp Ser Arg Asp Gln Arg Leu Ala Leu Val
 50 55 60
 Ser Ala Ile Ala Glu Thr Gly Val Arg Val Pro Ser Met Cys Leu Ser
 65 70 75 80
 Ala His Arg Arg Phe Pro Leu Gly Ser Glu Asp Asp Ala Val Arg Ala
 85 90 95
 Glu Gly Leu Glu Ile Met Arg Lys Ala Ile Arg Phe Ala Gln Asp Val
 100 105 110
 Gly Ile Arg Val Ile Gln Leu Ala Gly Tyr Asp Val Tyr Tyr Gln Glu
 115 120 125
 Ala Asn Asp Glu Thr Arg Arg Phe Arg Asp Gly Leu Lys Glu Ser
 130 135 140
 Val Glu Met Ala Ser Arg Ala Gln Val Thr Leu Ala Met Glu Ile Met
 145 150 155 160
 Asp Tyr Pro Leu Met Asn Ser Ile Ser Lys Ala Leu Gly Tyr Ala His
 165 170 175
 Tyr Leu Asn Asn Pro Trp Phe Gln Leu Tyr Pro Asp Ile Gly Asn Leu
 180 185 190
 Ser Ala Trp Asp Asn Asp Val Gln Met Glu Leu Gln Ala Gly Ile Gly
 195 200 205
 His Ile Val Ala Val His Val Lys Asp Thr Arg Pro Gly Val Phe Lys
 210 215 220
 Asn Val Pro Phe Gly Thr Gly Val Val Asp Phe Glu Arg Cys Phe Gln
 225 230 235 240
 Thr Leu Lys Gln Thr Gly Tyr Cys Gly Pro Tyr Leu Ile Glu Met Trp
 245 250 255
 Ser Glu Thr Ala Asp Asp Pro Ala Ala Glu Val Ala Lys Ala Arg Asp
 260 265 270
 Trp Val Cys Glu Arg Met Ala Arg Ala Gly Leu Met Glu Ala Glu His
 275 280 285
 Ala
 290

<210> 5974

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 5974

Thr Trp Cys Gln Ala Asp Gly Arg Val Lys Pro Gln Leu Ala Val Leu
 1 5 10 15
 Tyr Pro Cys Lys Pro Gly Leu Ser Leu Ser Arg Trp Pro Phe Val Ile
 20 25 30
 Ile His Pro Arg Gly Val Arg Met Phe Val Ala Glu Leu Ser Glu Ala
 35 40 45
 Phe Asn Gly Ile Ser Gln Arg Leu Ile Pro Gly Ala Val Leu Ala Ile
 50 55 60
 Asp Cys Ala Ala Ile Tyr Ser Phe Ala Pro Asn Ala Val Val Trp Gly
 65 70 75 80
 Phe Met Trp Gly Thr Ile Gly Gln Leu Ile Ala Val Gly Ile Leu Val
 85 90 95
 Gly Cys Gly Ser Ser Ile Leu Ile Ile Pro Gly Phe Ile Pro Met Phe
 100 105 110
 Phe Ser Asn Ala Thr Ile Gly Val Phe Ala Asn His Phe Gly Gly Trp
 115 120 125
 Arg Ala Ala Leu Lys Ile Cys Leu Val Met Gly Met Val Glu Ile Phe
 130 135 140
 Gly Cys Val Trp Ala Val Lys Leu Thr Gly Met Ser Ala Trp Met Gly
 145 150 155 160
 Met Ala Asp Trp Ser Ile Leu Ala Pro Pro Met Met Gln Gly Phe Ala
 165 170 175
 Ser Val Gly Leu Val Phe Met Ala Val Ile Ile Leu Ile Ala Leu Ala
 180 185 190
 Tyr Met Phe Phe Ala Gly Arg Ser Leu Arg Ala Glu Glu Asp Ala Glu
 195 200 205
 Lys Gln Thr Ala Glu Val Ser Ala His
 210 215

<210> 5975

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 5975

Gly Val Ser Ile Met Thr Val Arg Ile Leu Ala Val Cys Gly Asn Gly
 1 5 10 15
 Gln Gly Ser Ser Met Ile Met Lys Met Lys Val Asp Gln Phe Leu Thr
 20 25 30
 Gln Ser Asn Ile Asp His Thr Val Asn Ser Cys Ala Val Gly Glu Tyr
 35 40 45
 Lys Ser Glu Leu Asn Gly Ala Asp Ile Ile Ile Ala Ser Thr His Ile
 50 55 60
 Ala Gly Glu Ile Ser Val Ser Gly Asn Lys Tyr Val Val Gly Val Arg
 65 70 75 80
 Asn Met Leu Ser Pro Ala Asp Phe Gly Pro Lys Leu Leu Glu Val Ile
 85 90 95
 Lys Glu His Phe Pro Gln Asp Val Lys
 100 105

<210> 5976

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 5976

Gly Cys His Met Lys Leu Arg Asp Ser Leu Ala Glu Asn Asn Ser Ile
 1 5 10 15
 Leu Leu Gln Ala Glu Ala Ser Thr Trp Gln Glu Ala Val Lys Leu Ser
 20 25 30
 Val Asp Leu Leu Val Lys Ala Asp Val Val Glu Pro Arg Tyr Tyr Arg

35 40 45
 Arg Phe Trp Met Ala Trp Arg Ser Met Ala Leu Thr Leu
 50 55 60

<210> 5977
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 5977
 Trp Arg Arg Asn Met Leu Lys Leu Lys Gln Gln Val Phe Glu Ala Asn
 1 5 10 15
 Met Asp Leu Pro Arg Tyr Gly Leu Val Thr Phe Thr Trp Gly Asn Val
 20 25 30
 Ser Ala Ile Asp Arg Glu Gln Gly Leu Val Val Ile Lys Pro Ser Gly
 35 40 45
 Val Ala Tyr Asp Ala Met Lys Ala Asp Asp Met Val Val Val Asp Leu
 50 55 60
 Glu Gly Leu Val Val Glu Gly Lys Trp Arg Pro Ser Ser Asp Thr Ala
 65 70 75 80
 Thr His Leu Ala Leu Tyr Gln Arg Tyr Pro Ser Leu Gly Gly Ile Val
 85 90 95
 His Thr His Ser Thr His Ala Thr Ala Trp Ala Gln Ala Gly Leu Ala
 100 105 110
 Ile Pro Ala Leu Gly Thr Thr His Ala Asp Tyr Phe Phe Gly Asp Ile
 115 120 125
 Pro Cys Thr Arg Ala Leu Thr Gln Thr Glu Val Glu Gly Glu Tyr Glu
 130 135 140
 Leu Asn Thr Gly Arg Val Ile Ile Glu Thr Leu Gly Glu Thr Glu Pro
 145 150 155 160
 Leu His Thr Pro Gly Ile Val Val Tyr Gln His Gly Pro Phe Ser Gly
 165 170 175
 Arg Asn Leu His Leu Gly Pro Gly Gly Pro Glu Leu Arg
 180 185 190

<210> 5978
 <211> 236
 <212> PRT
 <213> Enterobacter cloacae

<400> 5978
 Lys Ser Ala Arg Tyr Ser Phe Asn Lys Arg Val Arg Thr Ala Ile Phe
 1 5 10 15
 Ser Tyr Met Asp Cys Leu Leu Ser Glu Arg Arg Met Pro Met Gln Asn
 20 25 30
 Lys Lys Thr Ile His Val Ala Val Val Asp Ser Cys Glu Phe Thr Met
 35 40 45
 Ile Gly Leu Gln Ser Leu Gly Lys Arg Glu Pro Asp Glu Lys His Asp
 50 55 60
 Val Ile Phe His Gly Phe Thr His Ile Glu Glu Leu Ala Met Ser Glu
 65 70 75 80
 Gln Leu Phe Asp Ile Ile Ile Tyr Asp Pro Leu Asn Thr Arg His Phe
 85 90 95
 Arg Val Thr Thr Asn Asp Asp Ile Leu Cys Ile Lys Gln Lys Gln Val
 100 105 110
 Thr Ala Lys Ile Tyr Ile Tyr Ser Leu Ser Ala Gly Tyr Leu Lys Phe
 115 120 125
 Lys His Val Asp Gly Val Ile Ser Lys Arg Val Ser Leu Gly Asp Ile
 130 135 140
 Lys Ala Leu Trp Gln Ile Leu Met Ser Gln Thr Pro Gln Glu Ser Gly
 145 150 155 160

Arg Tyr Asn Val Gly Met Thr Thr Arg Leu Arg Thr Pro Ala Arg Leu
 165 170 175
 Ser Ser Glu Glu Ala Ser Val Leu Arg Gly Tyr Ser Cys Asn Leu Lys
 180 185 190
 Thr Lys Gln Ile Ala Arg Gln Leu Gly Cys Asn Val Arg Leu Val Tyr
 195 200 205
 Phe Tyr Lys Asn Asn Ala Met Asn Lys Leu Lys Ala Val Arg Gly Pro
 210 215 220
 Ser Phe Tyr Gln Ser Ile Arg Trp Ile Leu Asn
 225 230 235

<210> 5979

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 5979

Ile Lys Asn Leu Thr Val Cys Arg Leu Pro Phe Val Pro Val Ser Ala
 1 5 10 15
 Gly Thr Phe Phe Ser Phe Ser Glu Gly Cys Ser Met Tyr Thr Val Leu
 20 25 30
 Pro Ser Pro Leu Leu Gln Arg Ile Ser Gly Leu Arg Phe Gln Pro Leu
 35 40 45
 Val Asp Leu His Ser Gly Gln Val Phe Ala His Glu Val Leu Val Glu
 50 55 60
 Ile Arg Asn Val Asn Leu Glu Val Leu Phe Ala Ser Leu Pro Ser Arg
 65 70 75 80
 Ser Ala Leu Gln Ile Phe Phe Trp Gln Ala Asn Thr Leu Leu Gln Ile
 85 90 95
 Pro Ala Arg Asp Gly Tyr Trp Leu Asn Leu Pro Ala Glu His Leu Leu
 100 105 110
 Asp Glu Arg Ala Ile Arg Leu Leu Leu Ala Leu Arg His Gln Gln Arg
 115 120 125
 Leu Thr Ile Glu Ile Gln Asp Pro Leu Thr Ile Thr Arg Leu Ser Glu
 130 135 140
 Ala Glu Gln Arg His Leu His Ala Thr Leu Val Arg Leu Lys Glu Ala
 145 150 155 160
 Gly Trp Gln Ile Trp Leu Asp Asp Leu Thr Arg Glu Leu Ala Glu Ala
 165 170 175
 Phe Ala Arg Leu Ala Leu Pro Leu Asp Gly Val Lys Ile Asp Arg Ser
 180 185 190
 Ala Leu Arg Glu Arg Ala Pro Leu Ala Pro Phe Val Gln Glu Val Arg
 195 200 205
 Thr Gly Ile Ala Gln Ser Ile Leu Ile Glu Gly Ile Glu Asn Ser Arg
 210 215 220
 Asp Leu Ala Arg Ala Arg Thr Ser Gly Ala Gln Ser Gly Gln Gly Phe
 225 230 235 240
 Leu Trp Pro Glu Ser Arg Thr Asp Ala Arg Val Thr Leu
 245 250

<210> 5980

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 5980

Gly Gly Asn Asp Ala Arg His Ile Lys Val Gly Val Ile Asn Gly Ala
 1 5 10 15
 Glu Gln Asp Val Ala Glu Val Ala Lys Lys Val Ala Lys Glu Lys Tyr
 20 25 30
 Gly Leu Asp Val Glu Leu Val Gly Phe Ser Gly Ser Leu Leu Pro Asn

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<210> 5981
<211> 185
<212> PRT
<213> Enterobacter cloacae
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```
<210> 5982
<211> 80
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5983
<211> 79
<212> PRT
<213> Enterobacter cloacae
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```
<400> 5983
Phe Ser Ser Arg Leu Val Lys Thr Lys Leu Leu Ala Gln Lys Leu Lys
1          5          10          15
Asp Met Ala Leu Glu Asp Val Leu Ile Ile Thr Gly Glu Leu Asp Glu
```

```

      20      25      30
Asn Leu Phe Leu Ala Ala Arg Asn Leu His Lys Val Asp Val Arg Asp
      35      40      45
Ala Thr Gly Ile Asp Pro Val Ser Leu Ile Ala Phe Asp Lys Val Val
      50      55      60
Met Thr Ala Asp Ala Val Lys Gln Val Glu Glu Met Leu Ala
      65      70      75

```

<210> 5984

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 5984

```

Arg Pro Lys His Glu Ala His Tyr Ala Ala Cys Glu Arg Ser Cys Arg
1      5      10      15
Ser His Pro Glu Ala His Gln Pro His Tyr Cys Gly Cys Val Arg Ser
      20      25      30
Leu Arg Leu Trp Arg Leu Ala Met Gly Gln Lys Val His Pro Asn Gly
      35      40      45
Ile Arg Leu Gly Ile Val Lys Pro Trp Asn Ser Thr Trp Phe Ala Asn
      50      55      60
Thr Lys Glu Phe Ala Asp Asn Leu Asp Ser Asp Phe Lys Val Arg Gln
      65      70      75      80
Tyr Leu Thr Lys Glu Leu Ala Lys Ala Ser Val Ser Arg Ile Val Ile
      85      90      95
Glu Arg Pro Ala Lys Ser Ile Arg Val Thr Ile His Thr Ala Arg Pro
      100      105      110
Gly Ile Val Ile Gly Lys Lys Gly Glu Asp Val Glu Lys Leu Arg Lys
      115      120      125
Val Val Ala Asp Ile Ala Gly Val Pro Ala Gln Ile Asn Ile Ala Glu
      130      135      140
Val Arg Lys Pro Glu Leu Asp Ala Lys Leu Val Ala Asp Ser Ile Thr
      145      150      155      160
Ser Gln Leu Glu Arg Arg Val Met Phe Arg Arg Ala Met Lys Arg Ala
      165      170      175
Val Gln Asn Ala Met Arg Leu Gly Ala Lys Gly Ile Lys Val Glu Val
      180      185      190
Ser Gly Arg Leu Gly Gly Ala Glu Ile Ala Arg Thr Glu Trp Tyr Arg
      195      200      205
Glu Gly Arg Val Pro Leu His Thr Leu Arg Ala Asp Ile Asp Tyr Asn
      210      215      220
Thr Ser Glu Ala His Thr Thr Tyr Gly Val Ile Gly Val Lys Val Trp
      225      230      235      240
Ile Phe Lys Gly Glu Ile Leu Gly Gly Met Ala Ala Val Glu Gln Pro
      245      250      255
Glu Lys Pro Ala Ala Gln Pro Lys Lys Gln Arg Lys Gly Arg Lys
      260      265      270

```

<210> 5985

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 5985

```

Gly Ala Ser Leu Met Leu Gln Pro Lys Arg Thr Lys Phe Arg Lys Val
1      5      10      15
His Lys Gly Arg Asn Arg Gly Leu Ala Gln Gly Thr Asp Val Ser Phe
      20      25      30

```

Gly Thr Phe Gly Leu Lys Ala Val Gly Arg Gly Arg Leu Thr Ala Arg
 35 40 45
 Gln Ile Glu Ala Ala Arg Arg Ala Met Thr Arg Ala Val Lys Arg Gln
 50 55 60
 Gly Lys Ile Trp Ile Arg Val Phe Pro Asp Lys Pro Ile Thr Glu Lys
 65 70 75 80
 Pro Leu Glu Val Arg Met Gly Lys Gly Lys Gly Asn Val Glu Tyr Trp
 85 90 95
 Val Ala Leu Ile Gln Pro Gly Lys Val Leu Tyr Glu Met Asp Gly Val
 100 105 110
 Pro Glu Glu Leu Ala Arg Glu Ala Phe Gly Leu Ala Ala Lys Leu
 115 120 125
 Pro Ile Lys Thr Thr Phe Val Thr Lys Thr Val Met
 130 135 140

<210> 5986

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 5986

Val Ser Arg Arg Ser Asn Thr Met Ala Val Val Lys Cys Lys Pro Thr
 1 5 10 15
 Ser Pro Gly Arg Arg His Val Val Lys Val Val Asn Pro Glu Leu His
 20 25 30
 Lys Gly Lys Pro Phe Ala Pro Leu Leu Glu Lys Asn Ser Lys Ser Gly
 35 40 45
 Gly Arg Asn Asn Asn Gly Arg Ile Thr Thr Arg His Ile Gly Gly Gly
 50 55 60
 His Lys Gln Ala Tyr Arg Ile Val Asp Phe Lys Arg Asn Lys Asp Gly
 65 70 75 80
 Ile Pro Ala Val Val Glu Arg Leu Glu Tyr Asp Pro Asn Arg Ser Ala
 85 90 95
 Asn Ile Ala Leu Val Leu Tyr Lys Asp Gly Glu Arg Arg Tyr Ile Leu
 100 105 110
 Ala Pro Lys Gly Leu Lys Ala Gly Asp Gln Ile Gln Ser Gly Val Asp
 115 120 125
 Ala Ala Ile Lys Ala Gly Asn Thr Leu Pro Met Arg Asn Ile Pro Val
 130 135 140
 Gly Ser Thr Val His Asn Val Glu Met Lys Pro Gly Lys Gly Gly Gln
 145 150 155 160
 Leu Ala Arg Ser Ala Gly Thr Tyr Val Gln Ile Val Ala Arg Asp Gly
 165 170 175
 Ala Tyr Val Thr Leu Arg Leu Arg Ser Gly Glu Met Arg Lys Val Glu
 180 185 190
 Ala Asp Cys Arg Ala Thr Leu Gly Glu Val Gly Asn Ala Glu His Met
 195 200 205
 Leu Arg Val Leu Gly Lys Ala Gly Ala Ala Arg Trp Arg Gly Val Arg
 210 215 220
 Pro Thr Val Arg Gly Thr Ala Met Asn Pro Val Asp His Pro His Gly
 225 230 235 240
 Gly Gly Glu Gly Arg Asn Phe Gly Lys His Pro Val Thr Pro Trp Gly
 245 250 255
 Val Gln Thr Lys Gly Lys Lys Thr Arg Ser Asn Lys Arg Thr Asp Lys
 260 265 270
 Phe Ile Val Arg Arg Arg Ser Lys
 275 280

<210> 5987

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 5987

Glu Glu Glu Met Glu Thr Leu Ala Gln His Arg His Ala Arg Ser Ser
 1 5 10 15
 Ala Gln Lys Val Arg Leu Val Ala Asp Leu Ile Arg Gly Lys Lys Val
 20 25 30
 Ser Gln Ala Leu Asp Ile Leu Thr Tyr Thr Asn Lys Lys Ala Ala Val
 35 40 45
 Leu Val Lys Lys Val Leu Glu Ser Ala Ile Ala Asn Ala Glu His Asn
 50 55 60
 Asp Gly Ala Asp Ile Asp Asp Leu Lys Val Ala Lys Ile Phe Val Asp
 65 70 75 80
 Glu Gly Pro Ser Met Lys Arg Ile Met Pro Arg Ala Lys Gly Arg Ala
 85 90 95
 Asp Arg Ile Leu Lys Arg Thr Ser His Ile Thr Val Val Val Ser Asp
 100 105 110
 Arg

<210> 5988

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 5988

Asp Phe Thr Asp Ser Glu Gly Gly Cys Val Met Thr Asp Lys Ile Arg
 1 5 10 15
 Thr Leu Gln Gly Arg Val Val Ser Asp Lys Met Glu Lys Ser Ile Val
 20 25 30
 Val Ala Ile Glu Arg Phe Val Lys His Pro Ile Tyr Gly Lys Phe Ile
 35 40 45
 Lys Arg Thr Thr Lys Leu His Val His Asp Glu Asn Asn Glu Cys Gly
 50 55 60
 Ile Gly Asp Lys Val Glu Ile Arg Asp Ala Val Gln Val Asp Asp Tyr
 65 70 75 80
 Ser Trp Thr Leu Phe Ala Cys Lys Lys Lys
 85 90

<210> 5989

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 5989

Gly Asp Ala Gly Met Ile Arg Glu Glu Arg Leu Leu Lys Val Leu Arg
 1 5 10 15
 Ala Pro His Val Ser Glu Lys Ala Ser Thr Ala Met Glu Lys Thr Asn
 20 25 30
 Thr Ile Val Leu Lys Val Ala Lys Asp Ala Thr Lys Ala Glu Ile Lys
 35 40 45
 Ala Ala Val Gln Lys Leu Phe Glu Val Glu Val Glu Val Val Asn Thr
 50 55 60
 Leu Val Val Lys Gly Lys Val Lys Arg His Gly Gln Arg Ile Gly Arg
 65 70 75 80
 Arg Ser Asp Trp Lys Lys Ala Tyr Val Thr Leu Lys Glu Gly Gln Asn
 85 90 95
 Leu Asp Phe Val Gly Gly Ala Glu
 100 105

<210> 5990

<211> 94

<212> PRT

<213> *Enterobacter cloacae*

<400> 5990

```

Ala Met Pro Arg Ser Leu Lys Lys Gly Pro Phe Ile Asp Leu His Leu
1      5      10      15
Leu Lys Lys Val Glu Lys Ala Val Glu Ser Gly Asp Lys Lys Pro Leu
      20      25      30
Arg Thr Trp Ser Arg Arg Ser Thr Ile Phe Pro Asn Met Ile Gly Leu
      35      40      45
Thr Ile Ala Val His Asn Gly Arg Gln His Val Pro Val Phe Val Thr
      50      55      60
Asp Glu Met Val Gly His Lys Leu Gly Glu Phe Ala Pro Thr Arg Thr
      65      70      75      80
Tyr Arg Gly His Ala Ala Asp Lys Lys Ala Lys Lys Lys
      85      90

```

<210> 5991

<211> 68

<212> PRT

<213> *Enterobacter cloacae*

<400> 5991

```

Asp Gly Asp Val Met Lys Ala Lys Glu Leu Arg Glu Lys Ser Val Glu
1      5      10      15
Glu Leu Asn Ala Glu Leu Leu Asn Leu Leu Arg Glu Gln Phe Asn Leu
      20      25      30
Arg Met Gln Ala Ala Ser Gly Gln Leu Gln Gln Thr His Leu Leu Lys
      35      40      45
Gln Val Arg Arg Asn Val Ala Arg Val Lys Thr Leu Leu Thr Gln Lys
      50      55      60
Ala Gly Ala
      65

```

<210> 5992

<211> 436

<212> PRT

<213> *Enterobacter cloacae*

<400> 5992

```

Thr Leu Leu Leu Pro Thr Arg Arg Leu Lys Leu Tyr Gly Glu Ser Phe
1      5      10      15
Ser Asp Ala His Leu Asn Val Leu Leu Thr Lys Leu Glu Lys Ala Ala
      20      25      30
Thr Asn Ile Thr Glu Lys Arg Lys Ser Gly Trp Asp Glu Lys Asp Val
      35      40      45
Val Leu Ile Thr Tyr Ala Asp Gln Phe Ser Thr Lys Gly Glu Gln Ala
      50      55      60
Leu Pro Val Phe Thr Arg Phe Tyr Asn Glu Trp Leu Ser Arg Thr Phe
      65      70      75      80
Ser His Val His Leu Leu Pro Phe Tyr Pro Trp Ser Ser Asp Asp Gly
      85      90      95
Phe Ser Val Ile Asp Tyr His Glu Val Ala Pro Glu Thr Gly Thr Trp
      100      105      110
Arg Asp Val Ala Glu Leu Lys His Ser Ala Ser Leu Met Phe Asp Phe
      115      120      125
Val Cys Asn His Met Ser Ala Lys Ser Glu Trp Phe Ala Asn Tyr Leu
      130      135      140
Ala Gln Lys Pro Gly Tyr Glu Asp Phe Phe Ile Ser Val Asp Pro Glu
      145      150      155      160

```

Thr Asp Leu Ser Ala Val Thr Arg Pro Arg Ala Leu Pro Leu Leu Thr
 165 170
 Pro Phe Thr Leu His Asp Gly Ser Val Arg His Leu Trp Thr Thr Phe
 180 185
 Ser Asp Asp Gln Ile Asp Leu Asn Phe Ala Ser Pro Gln Val Leu Ile
 195 200
 Ala Met Val Asp Val Leu Leu His Tyr Leu Met Glu Gly Ala Arg Tyr
 210 215
 Ile Arg Leu Asp Ala Val Gly Phe Met Trp Lys Ile Pro Gly Thr Thr
 225 230
 Cys Ile His Leu Glu Gln Thr His Cys Leu Ile Gln Leu Phe Arg Ala
 245 250
 Ile Thr Asp Ala Val Ala Pro Gly Thr Val Ile Ile Thr Glu Thr Asn
 260 265
 Val Pro His Lys Asp Asn Val Ser Tyr Phe Gly Asp Gly Glu Asn Glu
 275 280
 Ala His Met Val Tyr Gln Phe Ser Leu Pro Pro Leu Val Leu His Ala
 290 295
 Val His Arg Gln Asp Val Lys Thr Leu Cys Gln Trp Ala Gly Ser Leu
 305 310
 Ala Leu Pro Ser Thr His Thr Thr Trp Phe Asn Phe Leu Ala Ser His
 325 330
 Asp Gly Ile Gly Leu Asn Pro Leu Arg Gly Ile Leu Pro Glu Ser Glu
 340 345
 Ile Leu Ser Leu Val Glu Lys Leu Gln His Glu Cys Ala Leu Val Asn
 355 360
 Trp Lys Asn Asn Pro Asp Gly Thr Arg Ser Pro Tyr Glu Ile Asn Val
 370 375
 Thr Tyr Leu Asp Ala Leu Ser Leu Arg Asp Ser Tyr Asp Glu Arg
 385 390
 Ile Ala Arg Phe Ile Leu Ser His Ala Val Leu Leu Ser Phe Pro Gly
 405 410
 Val Pro Ala Val Tyr Ile Gln Ser Ile Leu Gly Ser Arg Asn Asp Tyr
 420 425
 Glu Gly Val
 435

<210> 5993

<211> 125

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (32)

<400> 5993

Arg Leu Gly Tyr Asn Arg Ala Ile Asn Arg Lys Lys Tyr Thr Ala Arg
 1 5 10 15
 His Val Asp Leu Glu Leu Asn Asn Lys Lys Ser Ile Arg Tyr Gln Xaa
 20 25 30
 Tyr Ser Arg Leu Ser Glu Phe Ile Ala Ile Arg Arg Gly Glu Ser Ala
 35 40 45
 Phe His Pro Asp Ser Gln Ala Ile Phe Asp Ala Ile Gly Glu His Ile
 50 55 60
 Leu Lys Ile Val Arg Val Ala Glu Asn Gly Glu Arg Met Thr Ala Leu
 65 70 75 80
 Phe Asn Phe Ser Asn Lys Met Gln Thr Ile Tyr Gly Gln Thr Leu Phe
 85 90 95
 Gly Arg Glu Leu Leu Ser Gly His Asp Ile Ser Gly Thr Glu Leu Asn
 100 105 110

Leu Asn Pro Trp Gln Val Met Trp Ile Lys Glu Asn
 115 120 125

<210> 5994

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 5994

Cys Gly Leu Lys Lys Thr Lys Lys Asp Pro Lys Met Lys Met Pro Lys
 1 5 10 15
 Ile Val Leu Leu Ser Ala Leu Val Ser Cys Ala Leu Leu Ser Gly Cys
 20 25 30
 Lys Asp Asp Lys Ala Ser Gln Val Thr Ile Glu Phe Met His Ser Ser
 35 40 45
 Val Glu Gln Glu Arg Gln Ala Val Ile Thr Lys Leu Ile Glu Lys Phe
 50 55 60
 Glu Lys Glu Asn Pro Thr Ile Thr Val Lys Gln Val Pro Val Glu Glu
 65 70 75 80
 Asp Ala Tyr Asn Thr Lys Val Ile Thr Leu Ala Arg Thr Gly Ala Leu
 85 90 95
 Pro Glu Val Ile Glu Val Ser His Asp Tyr Ala Lys Val Met Asp Lys
 100 105 110
 Glu Gln Leu Leu Asp Arg Asp Ala Ile Gly Asn Ala Ile Lys Ala Val
 115 120 125
 Gly Glu Asp Thr Phe Tyr Asp Gly Ile Leu Arg Val Val Arg Thr Glu
 130 135 140
 Asp Gly Lys Ala Trp Thr Gly Val Pro Val Ser Ala Trp Leu Ser Gly
 145 150 155 160
 Val Trp Tyr His Lys Asp Ala Leu Ala Ala Gly Ile Glu Glu Pro
 165 170 175
 His Asn Trp Glu Gln Leu Leu Lys Ala Ser Gln Ala Leu Asn Asp Pro
 180 185 190
 Ala Lys Lys His Tyr Gly Ile Ala Leu Pro Thr Ala Glu Ser Val Met
 195 200 205
 Thr Glu Gln Ala Phe Ser Gln Phe Ala Leu Ser Gly Gly Ala Asn Val
 210 215 220
 Phe Asp Ala Asn Gly Asn Val Lys Ile Asp Thr Pro Glu Met Ser Lys
 225 230 235 240
 Ala Leu Ala Phe Tyr Arg Ala Leu Ala Ala Asn Thr Met Pro Gly Ser
 245 250 255
 Asn Asp Val Met Glu Ile Lys Asp Ala Phe Met Asn Gly Cys Ala Pro
 260 265 270
 Met Ala Val Tyr Ser Thr Tyr Ile Leu Pro Ala Val Tyr Lys Asp Gly
 275 280 285
 Asn Pro Ala Asn Leu Gly Phe Val Val Pro Thr Glu Lys Ser Ser Ala
 290 295 300
 Val Tyr Gly Met Ile Thr Ser Leu Thr Ile Thr Thr Gly Gln Thr Glu
 305 310 315 320
 Glu Glu Thr Gln Ala Ala Glu Lys Phe Val Thr Trp Met Glu Gln Ala
 325 330 335
 Gln Asn Ala Ser Asp Trp Val Met Met Ser Pro Gly Ala Ala Leu Pro
 340 345 350
 Leu Asn Lys Leu Val Val Gly Thr Glu Ser Trp Lys Asn Asn Asp Val
 355 360 365
 Ile Lys Ala Phe Gly Gln Leu Pro Tyr Glu Leu Ile Ala Gln Phe Pro
 370 375 380
 Asn Val Gln Val Phe Gly Ala Val Gly Asp Lys Asn Phe Thr Arg Met
 385 390 395 400
 Gly Asp Val Thr Gly Ser Gly Ile Ile Ser Met Val His Asn Val
 405 410 415

Thr Val Gly Gln Lys Asp Leu Asn Ala Thr Leu Ser Asn Ser Gln Lys
 420 425 430
 Lys Leu Thr Asp Leu Ile Ser Gln Arg
 435 440

<210> 5995

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 5995

Glu Arg Phe Ala Lys Gly Ile Met Lys Thr Leu Phe Ser Gly Arg Ser
 1 5 10 15
 Asp Met Pro Phe Ala Met Leu Leu Leu Ala Pro Ser Leu Ile Leu Leu
 20 25 30
 Gly Gly Leu Val Ala Trp Pro Met Ile Ser Asn Ile Glu Ile Ser Phe
 35 40 45
 Leu Arg Leu Pro Leu Asn Pro Arg Ile Asp Ala Val Phe Val Gly Leu
 50 55 60
 Asp Asn Tyr Ile Arg Ile Leu Gly Asp Ala Phe Trp His Ser Leu
 65 70 75 80
 Trp Met Thr Phe Trp Tyr Thr Ala Leu Val Val Leu Gly Ser Thr Gly
 85 90 95
 Leu Gly Leu Ala Val Ala Ile Phe Phe Asn Arg Glu Phe Arg Met Arg
 100 105 110
 Lys Thr Ala Arg Ser Leu Val Ile Leu Ser Tyr Val Thr Pro Ser Ile
 115 120 125
 Ser Leu Val Phe Ala Trp Lys Tyr Met Phe Asn Asn Gly Tyr Gly Ile
 130 135 140
 Val Asn Tyr Leu Gly Val Asp Leu Leu His Leu Tyr Asp Gln Ala Pro
 145 150 155 160
 Leu Trp Phe Asp Asn Pro Gly Ser Ser Phe Val Leu Val Val Leu Phe
 165 170 175
 Ala Ile Trp Arg Tyr Phe Pro Tyr Ala Phe Ile Ser Phe Leu Ala Ile
 180 185 190
 Leu Gln Thr Ile Asp Lys Ser Leu Tyr Glu Ala Ala Glu Met Asp Gly
 195 200 205
 Ala Asn Ala Trp Gln Arg Phe Arg Ile Val Thr Leu Pro Ala Ile Met
 210 215 220
 Pro Val Leu Ala Thr Val Val Thr Leu Arg Thr Ile Trp Met Phe Tyr
 225 230 235 240
 Met Phe Ala Asp Val Tyr Leu Leu Thr Thr Lys Val Asp Ile Leu Gly
 245 250 255
 Val Tyr Leu Tyr Lys Thr Ala Phe Ala Phe Asn Asp Leu Gly Lys Ala
 260 265 270
 Ala Ala Ile Ser Val Val Leu Phe Val Ile Ile Phe Ala Val Ile Leu
 275 280 285
 Leu Thr Arg Lys Arg Val Asn Leu Asn Gly Asn Lys
 290 295 300

<210> 5996

<211> 215

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (175)

<220>

<221> UNSURE

<222>(176)

<220>

<221>UNSURE

<222>(182)

<220>

<221>UNSURE

<222>(203)

<400> 5996

```

Thr Ser Met Ala Thr Asn Lys Arg Val Leu Gly Arg Ile Gly Phe Tyr
1      5      10
Leu Gly Leu Ala Val Phe Leu Ile Ile Thr Leu Phe Pro Phe Phe Val
      20      25      30
Met Leu Met Thr Ser Phe Lys Ser Ala Lys Glu Ala Ile Ser Leu His
      35      40      45
Pro Thr Ile Leu Pro Gln Glu Trp Thr Leu Gln His Tyr Ile Asp Ile
      50      55      60
Phe Asn Pro Leu Ile Phe Pro Phe Val Asp Tyr Phe Arg Asn Ser Met
65      70      75      80
Val Val Ser Leu Thr Ser Ser Val Ile Ala Val Phe Leu Gly Thr Leu
      85      90      95
Gly Ala Tyr Ala Leu Ser Lys Leu Arg Phe Lys Gly Arg Thr Thr Ile
      100      105      110
Asn Ala Ser Phe Tyr Thr Val Tyr Met Phe Ser Gly Ile Leu Leu Val
      115      120      125
Val Pro Leu Phe Lys Ile Ile Thr Ala Leu Gly Ile Tyr Asp Thr Glu
      130      135      140
Leu Ala Leu Ile Ile Thr Met Val Thr Gln Thr Leu Pro Thr Ala Val
145      150      155      160
Phe Met Leu Arg Asn Tyr Phe Asp Thr Ile Pro Asp Glu Ile Xaa Xaa
      165      170      175
Ala Pro Met Lys Asp Xaa Leu Lys Arg Leu Gln Ile Ile Phe Arg Ile
      180      185      190
Thr Leu Pro Leu Gly Asn Ser Gly Leu Val Xaa Val Phe Val His Cys
      195      200      205
Phe Met Val Gly Val Glu
      210      215

```

<210> 5997

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 5997

```

Ser Phe Glu Ala Leu Lys Glu Tyr Tyr Pro Gln Ala Lys Lys Glu Asp
1      5      10      15
Trp Arg Leu Trp Gln Ala Gly Gln Arg Val Gln Ile Ile Lys Arg Asp
      20      25      30
Pro Lys Glu Gly Gly Val Leu Arg Met Ser Thr Glu Val Val Ser Asp
      35      40      45
Lys Asp Gly Thr Ile Ala Val Leu Leu Gly Ala Ser Pro Gly Ala Ser
      50      55      60
Thr Ala Ala Pro Ile Met Leu His Leu Met Glu Lys Val Phe Lys Asp
65      70      75      80
Lys Val Ser Ser Pro Glu Trp Gln Ala Lys Leu Lys Thr Ile Ile Pro
      85      90      95
Ser Tyr Gly Thr Lys Leu Asn Gly Asn Val Glu Ala Thr Glu Gln Glu
      100      105      110
Leu Glu Tyr Thr Ser Arg Val Leu Gln Leu Gln Tyr Val Lys Pro Gln

```

```
<210> 5998
<211> 124
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5999
<211> 137
<212> PRT
<213> Enterobacter cloacae
```

#400> 5999															
Ile	Pro	Pro	Gly	Leu	Lys	Gly	Glu	Phe	Ile	Met	Ser	Leu	Glu	Ile	Asn
1				5					10					15	
Gln	Ile	Ala	Leu	His	Gln	Leu	Ile	Lys	Arg	Asp	Glu	Gln	Thr	Leu	Glu
			20					25					30		
Val	Val	Leu	Arg	Asp	Ser	Leu	Leu	Glu	Pro	Thr	Pro	Thr	Val	Val	Glu
		35					40					45			
Met	Met	Ala	Glu	Leu	His	Arg	Val	Tyr	Ser	Ala	Lys	Asn	Lys	Ala	Tyr
	50					55					60				
Gly	Leu	Phe	Ser	Glu	Glu	Ser	Glu	Leu	Ala	Asp	Ser	Leu	Arg	Leu	Gln
65					70					75				80	
Arg	Gln	Gly	Glu	Glu	Asp	Phe	Leu	Ala	Phe	Ser	Arg	Ala	Ala	Thr	Gly
				85				90					95		
Arg	Leu	Arg	Asp	Glu	Leu	Ala	Lys	Tyr	Pro	Phe	Ala	Asp	Gly	Gly	Ile
			100					105					110		
Val	Leu	Phe	Cys	His	Tyr	Arg	Cys	Pro	Ala	Val	Val	Phe	Pro	Gln	Glu
		115					120					125			
Leu	Ala	Ile	Arg	Glu	Val	Asn	Arg	Xaa							
	130					135									

```
<210> 6000
<211> 625
<212> PRT
```

<213> Enterobacter cloacae

<400> 6000

```

Ser Ile Pro Ala Leu Leu Arg Leu Ser Val Arg Arg Ser Pro Asn Leu
1      5      10      15
Ser Pro Arg Leu Cys Ser Pro Pro Leu Ala Thr Thr Arg His Thr Lys
      20      25      30
Gly Asn Glu Gln Gln Phe Met Val Thr Asn Arg Gln Arg Tyr Arg Glu
      35      40      45
Lys Val Ser Gln Met Val Ser Trp Gly His Trp Phe Ala Leu Phe Asn
      50      55      60
Ile Leu Leu Ala Met Val Leu Gly Cys Arg Tyr Leu Phe Val Ala Asp
65      70      75
Trp Pro Thr Thr Leu Thr Gly Arg Val Tyr Ser Trp Met Ser Leu Val
      85      90      95
Gly His Phe Ser Phe Leu Val Phe Ala Thr Tyr Leu Leu Ile Leu Phe
      100      105      110
Pro Leu Thr Phe Ile Val Met Ser Gln Arg Leu Met Arg Phe Leu Ser
      115      120      125
Ala Ile Leu Ala Thr Ala Gly Met Thr Leu Leu Leu Ile Asp Ser Glu
130      135      140
Val Phe Thr Arg Phe His Leu His Leu Asn Pro Val Val Trp Glu Leu
145      150      155
Val Ile Asn Pro Asp Gln Asn Glu Thr Ala Arg Asp Trp Gln Leu Met
      160      165      170
Phe Ile Ser Val Pro Ile Ile Leu Leu Ile Glu Met Leu Phe Ala Thr
      180      185      190
Trp Ser Trp Gln Lys Leu Arg Ser Leu Thr Arg Arg Arg His Tyr Ala
      195      200      205
Lys Pro Val Ala Ala Leu Phe Phe Ala Ser Phe Ile Gly Ser His Leu
210      215      220
Met Tyr Ile Trp Ala Asp Ala Asn Phe Tyr Arg Pro Ile Thr Met Gln
225      230      235
Arg Ala Asn Leu Pro Leu Ser Tyr Pro Met Thr Ala Arg Arg Phe Leu
      240      245      250
Glu Lys His Gly Leu Leu Asp Ala Gln Glu Tyr Gln Arg Arg Leu Val
      255      260      265
Glu Gln Gly Asn Pro Glu Ala Val Ser Val Gln Tyr Pro Leu Ser Asp
      270      275      280
Leu Lys Tyr Arg Asp Met Gly Arg Gly Gln Asn Val Leu Leu Ile Thr
290      295      300
Val Asp Gly Leu Asn Tyr Ser Arg Tyr Glu Lys Gln Met Pro Ala Leu
305      310      315
Ala Glu Phe Ala Glu Asn Asn Ile Val Phe Thr Gln His Met Ser Ser
      320      325      330
Gly Asn Ser Thr Asp Ala Gly Ile Phe Gly Leu Phe Tyr Gly Ile Ser
      335      340      345
Pro Ser Tyr Met Asp Gly Val Leu Ser Ala Arg Ile Pro Ala Ala Leu
      350      355      360
Ile Thr Gly Leu Asn Gln Gln Gly Tyr Gln Leu Gly Leu Phe Ala Ser
370      375      380
Asp Gly Phe Asn Ser Ser Leu Tyr Arg Gln Ala Leu Leu Ser Asp Phe
385      390      395
Ser Leu Pro Ala Ala Gln Ser Gln Ser Asp Asp Arg Thr Ala Asp Gln
      400      405      410
Trp Ile Asp Trp Leu Lys Arg Tyr Ala Gln Glu Asp Asn Arg Trp Phe
      415      420      425
Ser Trp Val Ala Phe Asn Gly Thr Thr Leu Asp Asp Ser Asn Gln Lys
      430      435      440
Gly Phe Ala Arg Arg Tyr Ser Arg Ala Ala Gly Asp Val Asp Ala Gln
450      455      460

```

```

Ile Gly Arg Val Leu Thr Ala Leu Arg Asp Ala Gly Lys Leu Asp Asn
465          470          475          480
Thr Val Val Ile Ile Thr Ala Gly His Gly Val Pro Leu Gly Asp Glu
          485          490          495
Ala Lys Gly Met Glu Trp Ser Arg Pro Asn Leu His Val Pro Leu Val
          500          505          510
Ile His Trp Pro Gly Thr Pro Ala Gln Arg Ile Asn Met Leu Thr Asp
          515          520          525
His Lys Asp Val Met Thr Thr Leu Met Gln Arg Leu Leu His Val Ser
          530          535          540
Thr Pro Ala Ile Glu Tyr Ser Gln Gly Gln Asp Leu Phe Ser Ala Thr
545          550          555          560
Arg Arg His Asn Trp Val Thr Ala Ala Gly Gly Asn Thr Leu Val Val
          565          570          575
Thr Thr Pro Thr Leu Ser Leu Val Leu Asn Ser Asn Gly Asn Tyr Gln
          580          585          590
Thr Tyr Ser Ser Leu Glu Gly Glu Lys Leu Lys Asp Gln Lys Pro Gln Leu
595          600          605
Ser Leu Leu Leu Gln Val Leu Thr Asp Glu Lys Arg Phe Ile Ala Asn
610          615          620

```

625

<210> 6001

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 6001

```

Gln Lys Gly Met Thr Val Lys Asn Ala Pro Lys Phe Ala Ile Ala Leu
1          5          10          15
Ile Ala Ala Ala Cys Ala Ser Ser Ser Ala Phe Ala Ser Glu Thr Gln
          20          25          30
Lys Glu Gln Pro Leu Glu Lys Val Ala Pro Tyr Pro Gln Ala Asp Lys
          35          40          45
Gly Met Lys Arg Gln Val Ile Gln Leu Pro Ala Gln Gln Asp Glu Ala
50          55          60
Asn Phe Lys Val Glu Leu Leu Ile Gly Gln Thr Leu Glu Val Asp Cys
65          70          75          80
Asn Gln His Arg Leu Gly Gly Gln Leu Glu Ser Lys Thr Leu Glu Gly
          85          90          95
Trp Gly Tyr Asp Tyr Tyr Val Phe Asp Lys Val Thr Ser Pro Val Ser
100          105          110
Thr Met Met Ala Cys Pro Asp Gly Lys Lys Glu Lys Phe Ile Thr
115          120          125
Ala Tyr Leu Gly Asp Asn Ser Leu Leu Arg Tyr Asn Ser Lys Leu Pro
130          135          140
Ile Val Val Tyr Thr Pro Glu Asn Val Asp Val Lys Tyr Arg Val Trp
145          150          155          160
Lys Ala Asp Glu Thr Val Gly Gln Ala Val Val Arg
          165          170

```

<210> 6002

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6002

```

Phe Met Pro Gln His Ser Arg Tyr Ser Asp Glu His Val Glu Gln Leu
1          5          10          15
Leu Ser Glu Leu Val Asn Val Leu Glu Lys His Lys Thr Pro Thr Asp

```

	20		25		30
Leu Ser	Leu Met Val	Leu Gly Asn Met Val	Thr Asn	Leu Ile Asn Thr	
	35	40		45	
Ser Val	Ala Pro Ala Gln Arg	Gln Ala Ile Ala Lys	Ser Phe Ala Gln		
	50	55	60		
Ala Leu	Gln Ser Ser Val Ser Asp	Asp Gln Ala His			
65	70	75			

<210> 6003

<211> 486

<212> PRT

<213> Enterobacter cloacae

<400> 6003

Ala Lys Thr Asp	Pro Tyr Arg Ser Arg Cys Arg Ile Cys Pro Gly Asp
1	5 10 15
Gln Arg Arg Val Arg Phe Lys Ile Ser Leu Thr Thr Arg Leu Ser Leu	20 25 30
Ile Phe Ser Ala Val Met Leu Thr Val Trp Trp Leu Ser Ser Phe Ile	35 40 45
Leu Ile Ser Thr Leu Asn Gly Tyr Phe Asp Asn Gln Asp Arg Asp Phe	50 55 60
Leu Thr Gly Lys Leu Gln Leu Thr Glu Glu Phe Leu Lys Thr Glu Thr	65 70 75
Phe Arg Asn Lys Thr Asp Ile Lys Ser Leu Ser Glu Lys Ile Asn Asp	80 85 90 95
Ala Met Val Gly His Asn Gly Leu Phe Ile Ser Ile Lys Asn Met Glu	100 105 110
Asn Glu Lys Ile Val Glu Leu Tyr Ala Lys Asn Ser Val Val Pro Ala	115 120 125
Val Leu Leu Asn Lys Ser Gly Asp Ile Leu Asp Tyr Met Ile Gln Thr	130 135 140
Glu Glu Asn Asn Thr Val Tyr Arg Ser Ile Ser Arg Arg Val Ala Val	145 150 155
Thr Pro Glu Gln Gly Lys Ser Lys His Val Ile Ile Thr Val Ala Thr	160 165 170 175
Asp Thr Gly Tyr His Thr Leu Phe Met Asp Lys Leu Ser Thr Trp Leu	180 185 190
Phe Trp Phe Asn Ile Gly Leu Val Phe Ile Ser Val Phe Leu Gly Trp	195 200 205
Leu Thr Thr Arg Ile Gly Leu Lys Pro Leu Arg Glu Met Thr Ser Leu	210 215 220
Ala Ser Ser Met Thr Val His Ser Leu Asp Gln Arg Leu Asn Pro Asp	225 230 235
Leu Ala Pro Pro Glu Ile Ser Glu Thr Met Gln Glu Phe Asn Asn Met	240 245 250 255
Phe Asp Arg Leu Glu Gly Ala Phe Arg Lys Leu Ser Asp Phe Ser Ser	260 265 270
Asp Ile Ala His Glu Leu Arg Thr Pro Val Ser Asn Leu Met Met Gln	275 280 285
Thr Gln Phe Ala Leu Ala Lys Glu Arg Asp Val Ser His Tyr Arg Glu	290 295 300
Ile Leu Phe Ala Asn Leu Glu Glu Leu Lys Arg Leu Ser Arg Met Thr	305 310 315
Ser Asp Met Leu Phe Leu Ala Arg Ser Glu His Gly Leu Leu Arg Leu	320 325 330 335
Asp Lys His Asp Val Asp Leu Ala Ala Glu Leu Asn Glu Leu Arg Glu	340 345 350
Leu Phe Glu Pro Leu Ala Asp Glu Thr Gly Lys Thr Ile Thr Val Glu	355 360 365
Gly Glu Gly Val Val Ala Gly Asp Ser Asp Met Leu Arg Arg Ala Phe	

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      370              375              380
Ser Asn Leu Leu Ser Asn Ala Ile Lys Tyr Ser Pro Asp Asn Thr Cys
385              390              395
Thr Ala Ile His Leu Glu Arg Asp Arg Asp Cys Val Asn Val Met Ile
              405              410              415
Thr Asn Thr Met Ser Gly Gln Val Pro Ala Asn Leu Glu Arg Leu Phe
              420              425              430
Asp Arg Phe Tyr Arg Ala Asp Ser Ser Arg Phe Tyr Asn Thr Glu Gly
              435              440              445
Ala Gly Leu Gly Leu Ser Ile Thr Arg Ser Ile Ile His Ala His Gly
              450              455              460
Gly Glu Leu Ser Ala Glu Gln Gln Gly Arg Glu Ile Val Phe Lys Val
465              470              475              480
Arg Leu Leu Met Asp
              485

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<210> 6004

<211> 244

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (99)

<400> 6004

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Arg Lys Arg Gly Ser Gly Thr Pro Glu Val Lys Thr Ile His Val Ile
1              5              10              15
Glu Met Val Ile Glu Glu Thr Asp Val Gly Ile Ser Trp Ile Val Arg
              20              25              30
Leu Cys Ala Leu Phe Thr Thr Leu Gly Ala Leu Phe Leu Tyr Thr Asn
              35              40              45
Lys Arg Val Leu Ser Cys Leu Leu Met Thr Met Ser Gly Gly Val Ala
              50              55              60
Leu Ala Thr Leu Ala Trp Gly Gly His Ala Val Met His Asp Gly Leu
65              70              75              80
His Tyr Tyr Leu His Leu Leu Ser Asp Leu Thr His Leu Gly Ala Ala
              85              90              95
Gly Ala Xaa Asp Arg Gly Phe Ala Leu Val Ala Phe Ala Ile Leu Leu
              100              105              110
Met Arg Arg Asn Glu His Asn Ala Gln Ser Val Ile Val Ile Ser Asp
              115              120              125
Ser Leu Ala Lys Phe Ala Thr Ala Gly Thr Val Ile Val Val Ala Leu
              130              135              140
Ile Leu Thr Ala Leu Val Asn Tyr Leu Tyr Ile Ala Glu Gly Asn Leu
145              150              155              160
Thr Pro Leu Phe Asn Ser Ser Trp Gly Arg Ile Leu Leu Ala Lys Thr
              165              170              175
Ala Leu Phe Val Leu Met Leu Leu Ala Ala Ala Asn Arg Phe His
              180              185              190
Leu Gly Pro Arg Leu Glu Val Met Val Arg Glu Gly Asn Tyr Asp Arg
              195              200              205
Ser Val Ala Leu Met Arg Asn Ser Ile Leu Thr Glu Phe Val Val Ala
              210              215              220
Ile Ile Ile Leu Gly Ala Val Ala Trp Leu Gly Met Leu Ala Pro Ser
225              230              235              240
Gln Val Ser

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<210> 6005

<211> 237

<212> PRT

<213> *Enterobacter cloacae*

<400> 6005

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Asp Phe Tyr Phe His Ile Ser Glu Leu Thr Met Gln Arg Ile Leu Ile
1      5      10      15
Val Glu Asp Glu Gln Lys Thr Gly Arg Tyr Leu Gln Gln Gly Leu Val
20      25      30
Glu Glu Gly Tyr Gln Ala Asp Leu Phe Asn Asn Gly Arg Asp Gly Leu
35      40      45
Gly Ala Ala Ser Lys Gly Gln Tyr Asp Leu Ile Ile Leu Asp Val Met
50      55      60
Leu Pro Phe Leu Asp Gly Trp Gln Ile Ile Ser Ala Leu Arg Glu Ser
65      70      75      80
Gly His Glu Glu Pro Val Leu Phe Leu Thr Ala Lys Asp Asn Val Arg
85      90      95
Asp Lys Val Lys Gly Leu Glu Leu Gly Ala Asp Asp Tyr Leu Ile Lys
100     105
Pro Phe Asp Phe Thr Glu Leu Val Ala Arg Val Arg Thr Leu Leu Arg
115     120     125
Arg Ala Arg Ser Gln Ala Ala Thr Val Cys Thr Ile Ala Asp Met Thr
130     135     140
Val Asp Met Val Arg Arg Thr Val Ile Arg Ser Gly Lys Lys Ile His
145     150     155     160
Leu Thr Gly Lys Glu Tyr Val Leu Leu Glu Leu Leu Gln Arg Thr
165     170     175
Gly Glu Val Leu Pro Arg Ser Leu Ile Ser Ser Leu Val Trp Asn Met
180     185     190
Asn Phe Asp Ser Asp Thr Asn Val Ile Asp Val Ala Val Arg Arg Leu
195     200     205
Arg Ser Lys Ile Asp Asp Asp Phe Glu Pro Lys Leu Ile His Thr Val
210     215     220
Arg Gly Ala Gly Tyr Val Leu Glu Ile Arg Glu Glu
225     230     235

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<210> 6006

<211> 138

<212> PRT

<213> *Enterobacter cloacae*

<400> 6006

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Trp Thr Leu Ser Met Ser Asn Thr Leu Gln Pro Arg Arg Ala Arg Ala
1      5      10      15
Ser Tyr Ser Met Asp Phe Lys Leu Ala Leu Val Glu Lys Ser Tyr Gln
20      25      30
Pro Gly Ala Cys Val Ala Arg Leu Ala Arg Asp Asn Gly Ile Asn Asp
35      40      45
Asn Leu Leu Phe Thr Trp Arg Gln Arg Tyr Arg His Leu Leu Pro Asp
50      55      60
Glu Ile Gln Arg Ser Ile Arg Glu Gln Asp Ser Val Ile Pro Val Val
65      70      75      80
Leu Pro Asp Met Ala Leu Ser His His Ala Glu Pro His Tyr Glu Pro
85      90      95
Ala Ala Pro Ala Cys Arg Glu Ala Met Thr Cys Glu Val Thr Val Gly
100     105     110
Gly Ala Ser Leu Arg Leu Ser Gly Asp Leu Ser Pro Ala Leu Leu Lys
115     120     125
Thr Leu Ile Arg Glu Thr Leu Glu Lys Pro
130     135

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<210> 6007

<211> 410

<212> PRT

<213> *Enterobacter cloacae*

<400> 6007

Arg Arg Tyr Pro Gln Val Lys Leu Asn Ala Arg Gln Val Asp Ala Ala
 1 5 10 15
 Lys Pro Lys Asp Lys Pro Tyr Lys Leu Ala Asp Gly Gly Gly Leu Tyr
 20 25 30
 Leu Leu Ile Lys Pro Asn Gly Gly Lys Tyr Trp Arg Leu Lys Tyr Arg
 35 40 45
 Val Ala Gly Lys Glu Lys Leu Leu Ala Leu Gly Val Tyr Pro Glu Val
 50 55 60
 Thr Leu Ala Asp Ala Arg Ala Lys Arg Glu Glu Ala Lys Arg Gly Ile
 65 70 75 80
 Ala Gly Gly Ile Asp Pro Met Glu Ala Lys Arg Glu Glu Lys Ile Ala
 85 90 95
 Arg Glu Ile Gln Leu Asn Asn Thr Phe Lys Asp Ile Ala Leu Glu Trp
 100 105 110
 His Ser Ser Lys Leu Lys Lys Trp Ser Ala Gly Tyr Ala Ser Asp Ile
 115 120 125
 Leu Glu Ala Phe Asn Lys Asp Val Phe Pro Tyr Ile Gly Lys Lys Pro
 130 135 140
 Ile Ala Glu Ile Lys Pro Leu Glu Leu Leu Asn Val Leu Arg Arg Ile
 145 150 155 160
 Glu Gly Arg Gly Ala Thr Glu Lys Ala Arg Lys Val Arg Gln Arg Cys
 165 170 175
 Gly Glu Val Phe Arg Tyr Ala Ile Val Thr Gly Arg Ala Glu Tyr Asn
 180 185 190
 Pro Ala Pro Asp Leu Thr Ser Ala Met Gln Gly His Glu Ser Asn His
 195 200 205
 Phe Pro Phe Leu Thr Pro Lys Gln Leu Pro Asp Phe Phe Asn Ala Leu
 210 215 220
 Ser Gly Tyr Ser Gly Ser Glu Leu Val Val Leu Ala Ala Arg Leu Leu
 225 230 235 240
 Ile Ile Thr Gly Leu Arg Pro Gly Glu Leu Arg Gly Ala Phe Trp Asp
 245 250 255
 Glu Ile Asn Ile Ser Lys Ala Val Trp Glu Ile Pro Ala Ser Arg Met
 260 265 270
 Lys Met Arg Arg Pro His Val Val Pro Leu Ser Arg Gln Ala Leu Thr
 275 280 285
 Leu Ile Gly Gln Ile Gln Glu Leu Thr Gly Asn Tyr Pro Leu Val Phe
 290 295 300
 Pro Gly Arg Asn Asp Pro Arg Lys Thr Met Ser Glu Ala Ser Ile Asn
 305 310 315 320
 Gln Val Phe Lys Arg Ile Gly Tyr Asn Gly Lys Val Thr Gly His Gly
 325 330 335
 Phe Arg His Thr Met Ser Thr Ile Leu His Glu Gln Gly Tyr Asn Thr
 340 345 350
 Ala Trp Ile Glu Thr Gln Leu Ala His Val Asp Lys Asn Ser Ile Arg
 355 360 365
 Gly Thr Tyr Asn His Ala Gln Tyr Leu Asp Gly Arg Arg Glu Met Leu
 370 375 380
 Gln Trp Tyr Ala Asp Tyr Met Glu Ala Leu Glu Asn Gly Glu Asn Val
 385 390 395 400
 Val His Gly Thr Phe Gly Lys Ser Ala
 405 410

<210> 6008

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 6008

Thr Arg Phe Gly Leu Lys Trp Arg Ser Phe Pro Cys Gly Glu Lys Asn
 1 5 10 15
 Gly Leu Met Lys Lys Leu Gly Asp Tyr Val Glu Tyr His Ser Gln Glu
 20 25 30
 Ile Leu Leu Ala Asn Glu Gln Asp Leu Leu Glu Ala Arg Arg Asn Gly
 35 40 45
 Leu Ser Glu Ala Met Leu Asp Arg Leu Ala Leu Thr Pro Ala Arg Leu
 50 55 60
 Lys Gly Ile Ala Asp Asp Val Arg Gln Val Cys Asn Leu Ala Asp Pro
 65 70 75 80
 Val Gly Gln Val Ile Asp Gly Gly Val Leu Asp Ser Gly Leu Arg Leu
 85 90 95
 Glu Arg Arg Arg Val Pro Leu Gly Val Ile Gly Val Ile Tyr Glu Ala
 100 105 110
 Arg Pro Asn Val Thr Val Asp Val Ala Ser Leu Cys Leu Lys Thr Gly
 115 120 125
 Asn Ala Ala Ile Leu Arg Gly Gly Lys Glu Thr Trp Arg Thr Asn Ala
 130 135 140
 Ala Thr Val Asn Val Ile Gln Gln Ala Leu Glu Cys Gly Leu Pro
 145 150 155 160
 Ala Gly Ala Val Gln Ala Ile Glu Ser Pro Asp Arg Ala Leu Val Asn
 165 170 175
 Glu Met Leu Arg Met Asp Lys Tyr Ile Asp Met Leu Ile Pro Arg Gly
 180 185 190
 Gly Ala Gly Leu His Lys Leu Cys Arg Glu Gln Ser Thr Ile Pro Val
 195 200 205
 Ile Thr Gly Gly Ile Gly Val Cys His Ile Val Val Asp Asp Thr Ala
 210 215 220
 Glu Val Glu Pro Ala Leu Lys Ile Ile Val Asn Ala Lys Thr Gln Arg
 225 230 235 240
 Pro Ser Thr Cys Asn Thr Val Glu Thr Leu Leu Val His Gln Gly Ile
 245 250 255
 Ala Ser Thr Phe Leu Pro Ala Leu Ser Lys Gln Met Ala Glu Ser Gly
 260 265 270
 Val Thr Leu His Ala Asp Glu Lys Ala Phe Ala Leu Leu Lys Asp Gly
 275 280 285
 Pro Ala Lys Val Val Pro Val Asn Ala Glu Gln Tyr Asp Asp Glu Tyr
 290 295 300
 Leu Ser Leu Asp Leu Asn Val Lys Val Val Ala Asp Leu Asp Asp Ala
 305 310 315 320
 Ile Ala His Ile Arg Glu His Gly Thr Gln His Ser Asp Ala Ile Leu
 325 330 335
 Thr Arg Thr Leu Arg Asn Ala Asp Arg Phe Val Asn Glu Val Asp Ser
 340 345 350
 Ser Ala Val Tyr Val Asn Ala Ser Thr Arg Phe Thr Asp Gly Gly Gln
 355 360 365
 Phe Gly Leu Gly Ala Glu Val Ala Val Ser Thr Gln Lys Leu His Ala
 370 375 380
 Arg Gly Pro Met Gly Leu Glu Ala Leu Thr Thr Tyr Lys Trp Ile Gly
 385 390 395 400
 Phe Gly Asp Asp Thr Ile Arg Ala
 405

<210> 6009

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6009

Arg Gln Met Ser Met Gln Asp Pro Ile Ala Asp Met Leu Thr Arg Ile
 1 5 10 15
 Arg Asn Gly Gln Ala Ala Asn Lys Val Ala Val Thr Met Pro Ser Ala
 20 25 30
 Lys Leu Lys Val Ala Ile Ala Asn Val Leu Lys Glu Glu Gly Phe Ile
 35 40 45
 Glu Asp Phe Lys Val Glu Gly Asp Thr Lys Pro Glu Leu Glu Leu Thr
 50 55 60
 Leu Lys Tyr Phe Gln Gly Lys Ala Val Val Glu Ser Ile Gln Arg Val
 65 70 75 80
 Ser Arg Pro Gly Leu Arg Ile Tyr Lys Lys Lys Asp Glu Leu Pro Lys
 85 90 95
 Val Met Ala Gly Leu Gly Ile Ala Val Val Ser Thr Ser Lys Gly Val
 100 105 110
 Met Thr Asp Arg Ala Ala Arg Gln Ala Gly Leu Gly Gly Glu Ile Ile
 115 120 125
 Cys Tyr Val Ala
 130

<210> 6010

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 6010

Ser Glu Glu Arg Met Ser Arg Val Ala Lys Ala Pro Val Val Ile Pro
 1 5 10 15
 Ala Gly Val Asp Val Lys Ile Asp Gly Gln Val Ile Thr Ile Lys Gly
 20 25 30
 Lys Asn Gly Glu Leu Thr Arg Thr Leu Asn Lys Ala Val Glu Val Lys
 35 40 45
 His Ala Asp Asn Ala Leu Thr Phe Gly Pro Arg Asp Gly Phe Val Asp
 50 55 60
 Gly Trp Ala Gln Ala Gly Thr Ala Arg Ala Leu Leu Asn Ser Met Val
 65 70 75 80
 Val Gly Val Thr Glu Gly Phe Thr Lys Lys Leu Gln Leu Val Gly Val
 85 90 95
 Gly Tyr Arg Ala Ala Ile Lys Gly Asn Ala Val Gly Leu Ser Leu Gly
 100 105 110
 Phe Ser His Pro Val Glu His Pro Leu Pro Ala Gly Ile Thr Ala Glu
 115 120 125
 Cys Pro Thr Gln Thr Glu Ile Val Leu Lys Gly Ala Asp Lys Gln Leu
 130 135 140
 Ile Gly Gln Val Ala Ala Asp Leu Arg Ala Tyr Arg Arg Pro Glu Pro
 145 150 155 160
 Tyr Lys Gly Lys Gly Val Arg Tyr Ala Asp Glu Val Val Arg Thr Lys
 165 170 175
 Glu Ala Lys Lys Lys
 180

<210> 6011

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 6011

Gly Asn Thr Met Asp Lys Lys Ser Ala Arg Ile Arg Arg Ala Thr Arg
 1 5 10 15
 Ala Arg Arg Lys Leu Lys Glu Leu Gly Ala Thr Arg Leu Val Val His
 20 25 30

Arg Thr Pro Arg His Ile Tyr Ala Gln Val Ile Ala Pro Asn Gly Ser
 35 40 45
 Glu Val Leu Val Ala Ala Ser Thr Val Glu Lys Ala Ile Ser Glu Gln
 50 55 60
 Leu Lys Tyr Thr Gly Asn Lys Asp Ala Ala Ala Val Gly Lys Ala
 65 70 75 80
 Val Ala Glu Arg Ala Leu Glu Lys Gly Ile Ser Asn Val Ser Phe Asp
 85 90 95
 Arg Ser Gly Phe Gln Tyr His Gly Arg Val Gln Ala Leu Ala Asp Ala
 100 105 110
 Ala Arg Glu Ala Gly Leu Gln Phe
 115 120

<210> 6012

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6012

Gln Met Ala Lys Gln Pro Gly Leu Asp Phe Gln Ser Ala Lys Gly Gly
 1 5 10 15
 Phe Gly Glu Leu Lys Arg Arg Leu Leu Phe Val Ile Gly Ala Leu Ile
 20 25 30
 Val Phe Arg Ile Gly Ser Phe Ile Pro Ile Pro Gly Ile Asp Ala Ala
 35 40 45
 Val Leu Ala Lys Leu Leu Glu Gln Gln Arg Gly Thr Ile Ile Glu Met
 50 55 60
 Phe Asn Met Phe Ser Gly Gly Ala Leu Ser Arg Ala Ser Ile Phe Ala
 65 70 75 80
 Leu Gly Ile Met Pro Tyr Ile Ser Ala Ser Ile Ile Ile Gln Leu Leu
 85 90 95
 Thr Val Val His Pro Ala Leu Ala Glu Leu Lys Lys Glu Gly Glu Ser
 100 105 110
 Gly Arg Arg Lys Ile Ser Gln Tyr Thr Arg Tyr Gly Thr Leu Val Leu
 115 120 125
 Ala Ile Phe Gln Ser Ile Gly Ile Ala Thr Gly Leu Pro Asn Met Pro
 130 135 140
 Gly Met Gln Gly Leu Val Leu Asn Pro Gly Phe Ala Phe Tyr Phe Thr
 145 150 155 160
 Ala Val Val Ser Leu Val Thr Gly Thr Met Phe Leu Met Trp Leu Gly
 165 170 175
 Glu Gln Ile Thr Glu Arg Gly Ile Gly Asn Gly Ile Ser Ile Ile Ile
 180 185 190
 Phe Ala Gly Ile Val Ala Gly Leu Pro Pro Ala Ile Ala His Thr Ile
 195 200 205
 Glu Gln Ala Arg Gln Gly Asp Leu His Phe Leu Leu Leu Leu Val
 210 215 220
 Ala Val Leu Val Phe Ala Val Thr Phe Phe Val Val Phe Val Glu Arg
 225 230 235 240
 Gly Gln Arg Arg Ile Val Val Asn Tyr Ala Lys Arg Gln Gln Gly Arg
 245 250 255
 Arg Val Tyr Ala Ala Gln Ser Thr His Leu Pro Leu Lys Val Asn Met
 260 265 270
 Ala Gly Val Ile Pro Ala Ile Phe Ala Ser Ser Ile Ile Leu Phe Pro
 275 280 285
 Ala Thr Ile Ala Ser Trp Phe Gly Gly Gly Leu His His Thr Gly Arg
 290 295 300
 Lys Ser Asp Ala
 305

<210> 6013

<211> 170

<212> PRT

<213> *Enterobacter cloacae*

<400> 6013

```

Arg Cys Lys Met Ala His Ile Glu Lys Gln Ala Gly Glu Leu Gln Glu
1      5      10      15
Lys Leu Ile Ala Val Asn Arg Val Ser Lys Thr Val Lys Gly Gly Arg
20      25      30
Ile Phe Ser Phe Thr Ala Leu Thr Val Val Gly Asp Gly Asn Gly Arg
35      40      45
Val Gly Phe Gly Tyr Gly Lys Ala Arg Glu Val Pro Ala Ala Ile Gln
50      55      60
Lys Ala Met Glu Lys Ala Arg Arg Asn Met Ile Asn Val Ala Leu Asn
65      70      75      80
Asn Gly Thr Leu Gln His Pro Val Lys Gly Val His Thr Gly Ser Arg
85      90      95
Val Phe Met Gln Pro Ala Ser Glu Gly Thr Gly Ile Ile Ala Gly Gly
100     105     110
Ala Met Arg Ala Val Leu Glu Val Ala Gly Val His Asn Val Leu Ala
115     120     125
Lys Ala Tyr Gly Ser Thr Asn Pro Ile Asn Val Val Arg Ala Thr Ile
130     135     140
Asp Gly Leu Glu Asn Met Asn Ser Pro Glu Met Val Ala Ala Lys Arg
145     150     155     160
Gly Lys Ser Val Glu Glu Ile Leu Gly
165      170

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<210> 6014

<211> 62

<212> PRT

<213> *Enterobacter cloacae*

<400> 6014

```

Leu Thr Met Ala Lys Thr Ile Lys Ile Thr Gln Thr Arg Ser Ala Ile
1      5      10      15
Gly Arg Leu Pro Lys His Lys Ala Thr Leu Leu Gly Leu Gly Leu Arg
20      25      30
Arg Ile Gly His Thr Val Glu Arg Glu Asp Thr Pro Ala Val Arg Gly
35      40      45
Met Val Asn Ala Val Tyr Phe Met Val Lys Val Glu Glu
50      55      60

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<210> 6015

<211> 146

<212> PRT

<213> *Enterobacter cloacae*

<400> 6015

```

Glu Met Arg Leu Asn Thr Leu Ser Pro Ala Glu Gly Ser Lys Lys Ala
1      5      10      15
Gly Lys Arg Leu Gly Arg Gly Ile Gly Ser Gly Leu Gly Lys Thr Gly
20      25      30
Gly Arg Gly His Lys Gly Gln Asn Ser Arg Ser Gly Gly Gly Val Arg
35      40      45
Arg Gly Phe Glu Gly Gly Gln Met Pro Leu Tyr Arg Arg Leu Pro Lys
50      55      60
Phe Gly Phe Thr Ser Arg Lys Ala Ala Ile Thr Ala Glu Ile Arg Leu
65      70      75      80
Ser Asp Leu Ala Lys Val Glu Gly Gly Val Asp Leu Asn Thr Leu
85      90      95

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Lys Ala Ala Asn Ile Ile Gly Ile Gln Ile Glu Phe Ala Lys Val Ile
 100 105 110
 Leu Ala Gly Glu Val Ser Thr Pro Val Thr Val Arg Gly Leu Arg Val
 115 120 125
 Thr Lys Gly Ala Arg Ala Ala Ile Glu Ala Ala Gly Gly Lys Ile Glu
 130 135 140
 Glu
 145

<210> 6016

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 6016

Phe Gln Leu Ile Asn Lys Leu Ser Ala Ala Ala Val Ser Trp Arg Arg
 1 5 10 15
 His Gly Val Ile Met Ala Gln Ile Ile Phe Asn Arg Glu Trp Val Val
 20 25 30
 Glu Ala Glu Thr Ala Leu Thr Gly Leu Ser Glu Arg Gln Ile Lys
 35 40 45
 Ala Leu Arg Ser Gly Pro Trp Leu Glu Gly Ile His Phe Lys Arg Gln
 50 55 60
 Ser Met Lys Gly Gly Glu Thr Lys Arg Gly Leu Leu Trp Tyr Asn Tyr
 65 70 75 80
 Pro Arg Ile Asn Gln Leu Val Gln Glu Leu
 85 90

<210> 6017

<211> 463

<212> PRT

<213> Enterobacter cloacae

<400> 6017

Arg Met Leu Pro Ala Arg Asn Gly Gly Gly Ile His Glu Arg Ala Ala
 1 5 10 15
 Arg Val Gly Ala Gln Arg Arg Thr Pro Lys Arg Met Leu Ala Trp Ile
 20 25 30
 Arg Lys Thr Met Leu Val Ser Thr Gln Trp Pro Glu Ile Lys Lys Gln
 35 40 45
 Leu Thr Lys Trp Leu Asp Thr Pro Pro Ala Lys Arg Glu Pro Val Asp
 50 55 60
 Ile Asn Thr Glu Thr Lys Thr Asp Ser Gly Ala Thr Leu Gly Gly Gly
 65 70 75 80
 Asn Gln Thr Asp Arg Ser Pro Asp Leu Val His Asn Leu Ala Thr Leu
 85 90 95
 Arg Ile Glu Thr Ala Leu Gly Ile Ile Ala Ala Met Asp Phe Asp
 100 105 110
 Ile Tyr Ser Ile Pro Val Glu Ile Met Arg Arg Ala Lys Glu Leu Glu
 115 120 125
 Ser Ser Gly Gly Asp Pro Arg Phe Ser Ala Trp Trp Thr Lys Leu Arg
 130 135 140
 Val Thr Pro Gly Ile Leu Asp Tyr Ser Arg Ala Ala Ile Ile Ala Leu
 145 150 155 160
 Ile Lys Ser Ala Pro Glu Asp Leu Tyr Leu Arg Pro Val Asp Leu Arg
 165 170 175
 Ala Tyr Ile Asn Arg Glu Leu Val Glu Ser Asp His Ala Lys Pro Asp
 180 185 190
 Pro Lys Thr Val Ala Thr Ala Cys Gly Thr Ala Thr Thr Glu Gln Asn
 195 200 205
 Asp Asp Gln Thr Gln Pro Ala Glu Lys Asp Lys Ala Asp Leu Pro Ala

210 215 220
 Val Cys Pro Gly Arg Ala Ala Gln Leu Asp Lys Glu Leu Asn Glu Ala
 225 230 235 240
 Phe Glu Lys Arg Pro Ser Val Glu Pro Gln Ala Ser Asp Gln Pro Gln
 245 250 255
 Ile Glu Asn Leu Gly Gly Gly Val Phe Ser Val Glu Ala Leu Ile Asn
 260 265 270
 Pro Pro Ser Ser Asn Glu Val Glu Lys Gln Glu Val Pro Pro Ala Leu
 275 280 285
 Thr Asp Arg Glu Ile Glu Ile Ala His Ala Leu Asn Asp Leu Ile Ala
 290 295 300
 Gly Arg Thr Arg Ile Met Asp Lys Glu Glu Ala Glu Gly Val Val Thr
 305 310 315 320
 Thr Thr Gly His Ser Val Ser His Val Ile Pro Leu Leu Leu Ala Asp
 325 330 335
 Ile Ser Thr Ala Glu Phe Cys Leu Ser Pro Asp Phe Ser Asp Glu Glu
 340 345 350
 Ile His Asp Val Ala Thr Thr Ile Leu Asp Ser Trp Ser Asp Asp Leu
 355 360 365
 Cys Val Arg Gln Lys Ile Ala Leu Asp Ala Ile Val Glu Tyr Arg Arg
 370 375 380
 Pro Ala Pro Pro Lys Ala Val Val Leu Asp Pro Pro Phe Ile Thr Ala
 385 390 395 400
 Lys Pro Lys Lys Ala Ala Glu Pro Val Pro Glu Thr His Thr Ala Ala
 405 410 415
 Pro Leu Asn Tyr Arg Gln Gln Leu Ile Leu Ala Ala Met Gln Gly Met
 420 425 430
 Cys Ala Asn Pro Ser Tyr Arg Cys Asp Phe Glu Asp Leu Pro Ala Met
 435 440 445
 Ala Ile Glu Leu Ala Asp Ser Leu Ile Asn Gln Asp Gly Ile
 450 455 460

<210> 6018

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 6018

Arg Tyr Thr Leu Gln Thr Pro Val Asn Glu Arg Arg Arg Asn Gln Thr
 1 5 10 15
 Arg Ser Pro Leu Val Gln Leu Pro Ser His Lys Ser Val Ser Ala Gly
 20 25 30
 Ala Val Met Ser Phe Pro Thr Gly Val Glu Ile His Asn Gly Lys Ile
 35 40 45
 Arg Ile Ser Phe Thr Tyr Arg Gly Lys Arg Cys Arg Glu Val Leu Lys
 50 55 60
 Gly Trp Val Asn Thr Pro Ala Asn Ile Ile Lys Ala Gly Asn Leu Arg
 65 70 75 80
 Ala Leu Ile Val Ser Glu Ile Gln Met Gly Glu Phe Asp Tyr Ser Arg
 85 90 95
 Arg Phe Pro Glu Ser Lys Ala Val Gln Lys Phe Thr Ser Thr Arg Val
 100 105 110
 Ala Tyr Thr Trp Gly Asp Leu Asn Glu Leu Trp Leu Ala Ala Lys Glu
 115 120 125
 Glu Asp Val Ser Arg Asn Thr Met Thr Arg Leu Leu Ala Gln Leu Arg
 130 135 140
 Thr Ile Asn Arg Ile Val Gly Glu Asn Thr Leu Ile Val Asp Ile Thr
 145 150 155 160
 His Ser Asp Met Leu Arg Tyr Arg Lys Glu Leu Leu Arg Gly Glu Ser
 165 170 175
 Phe Tyr Ala Glu Gly Asn Lys Arg Lys Lys Thr Gly Arg Ser Val Asn

180	185	190
Thr Val Asn Asp Tyr Ile Ser	Val Val Cys Gln Met	Leu Arg Phe Ala
195	200	205
His Arg Ser Arg Phe Ile Thr	Glu Lys Pro Phe Glu	His Ile Thr Lys
210	215	220
Leu His Lys Asp Arg Lys Lys	Pro Asp Pro Leu Gln Arg	Asp Glu Tyr
225	230	235
Ala Thr Met Met Leu Ala Ile	Asn Gly Gln Asp Arg	Asn Leu Trp Gln
240	245	250
Phe Ala Met Asn Ala Gly Pro	Arg His Gly Glu Leu Ala	Ala Leu Ala
255	260	265
Trp Asp Asp Val Asp Leu Glu	Ser Gly Lys Val His Ile	Gln Arg Asn
270	275	280
Arg Thr Ala Gln Gly Asp Phe	Val Pro Pro Lys Thr	Lys Ala Gly Asp
285	290	295
Arg Val Ile Thr Leu Leu Ala	Pro Ala Leu Asp Ala	Leu Arg Ala Gln
300	305	310
Tyr Ala Leu Thr Gly His Leu	Pro Glu Thr Glu Ile	Val Gln His Phe
315	320	325
Arg Glu Tyr Gly Lys Thr Glu	Ile Gln Lys His Arg Phe	Val Phe Leu
330	335	340
Pro Gly Leu Lys Thr Lys Asn	Pro Gly Arg Tyr Phe Ser	Thr Gln Ser
345	350	355
Ile Ser Asp Arg Trp Asp Val	Cys Val Glu Lys Ala Gly	Ile Arg Arg
360	365	370
Arg Ala Pro Tyr Gln Ser Arg	His Thr Phe Ala Cys	Trp Ser Leu Ala
375	380	385
Ala Gly Ala Asn Pro Ser Phe	Ile Ala Ser Gln Leu Gly	His Glu Asp
390	395	400
Ala Glu Met Val Tyr Arg Val	Tyr Ser Ala Trp Ile	Lys Glu Phe Asp
405	410	415
Gly Glu Gln Val Glu Leu Leu	Asn Gln Arg Leu Gly	Phe Ala Pro Asn
420	425	430
Thr Pro Pro Glu Gly Lys Ile	Ile Lys Ile Asn Glu	Leu Asn Gln
435	440	445
	450	455

<210> 6019

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 6019

His Phe Asp Trp Phe Ala Ser	His Ser Arg Gly Glu Asn	Val Cys Arg
1	5	10
Ile Leu Leu Thr Gly Trp Phe	Met Ser Ala Asn Thr	Glu Ala Gln Gly
20	25	30
Ser Gly Arg Gly Leu Glu Ala	Met Lys Trp Val Val	Val Ala Val Leu
35	40	45
Leu Ile Val Ala Ile Val Gly	Asn Tyr Leu Tyr Arg	Asp Met Met Leu
50	55	60
Pro Leu Arg Ala Leu Ala Val	Val Ile Leu Ile Ala	Ala Ala Gly Gly
65	70	75
Val Ala Leu Leu Thr Thr Lys	Gly Lys Ala Thr Val	Ala Phe Ala Arg
85	90	95
Glu Ala Arg Thr Glu Val Arg	Lys Val Ile Trp Pro	Thr Arg Gln Glu
100	105	110
Thr Leu His Thr Thr Leu Ile	Val Ala Ala Val Asn	Arg Cys Asn Val
115	120	125
Thr Asp Pro Val Gly Thr Gly	Trp Tyr Ser Gly Ser	Pro Gly Ile Leu
130	135	140
Tyr His Trp Pro Glu Val Leu	Arg Cys Leu Lys Pro	Leu Lys Ser Ala

```
<210> 6020
<211> 407
<212> PRT
<213> Enterobacter cloacae
```

1	Yr	His	Arg	Phe	Ile	Arg	Val	Leu	Glu	Gly	Gln	Ser	Met	Ser	Lys	Glu
1	Lys	Phe	Glu	Arg	Thr	Lys	Pro	His	Val	Asn	Val	Gly	Thr	Ile	Gly	His
			20						25					30		
	Val	Asp	His	Gly	Lys	Thr	Thr	Leu	Thr	Ala	Ala	Ile	Thr	Thr	Val	Leu
			35					40					45			
	Ala	Lys	Thr	Tyr	Gly	Gly	Ala	Ala	Arg	Ala	Phe	Asp	Gln	Ile	Asp	Asn
			50				55					60				
	Ala	Pro	Glu	Glu	Lys	Ala	Arg	Gly	Ile	Thr	Ile	Asn	Thr	Ser	His	Val
						70					75				80	
	Glu	Tyr	Asp	Thr	Pro	Thr	Arg	His	Tyr	Ala	His	Val	Asp	Cys	Pro	Gly
					85					90					95	
	His	Ala	Asp	Tyr	Val	Lys	Asn	Met	Ile	Thr	Gly	Ala	Ala	Gln	Met	Asp
				100					105					110		
	Gly	Ala	Ile	Leu	Val	Val	Ala	Ala	Thr	Asp	Gly	Pro	Met	Pro	Gln	Thr
				115				120					125			
	Arg	Glu	His	Ile	Leu	Lys	Gly	Arg	Gln	Val	Gly	Val	Pro	Tyr	Ile	Ile
							135					140				
	Val	Phe	Leu	Asn	Lys	Cys	Asp	Met	Val	Asp	Asp	Glu	Glu	Leu	Leu	Glu
						150					155				160	
	Leu	Val	Glu	Met	Glu	Val	Arg	Glu	Leu	Leu	Ser	Gln	Tyr	Asn	Phe	Pro
					165					170					175	
	Gly	Asp	Asp	Thr	Pro	Ile	Val	Arg	Gly	Ser	Ala	Leu	Lys	Ala	Leu	Glu
				180					185					190		
	Gly	Glu	Ala	Glu	Trp	Glu	Glu	Lys	Ile	Ile	Glu	Leu	Ala	Gly	Tyr	Leu
				195				200					205			
	Asp	Ser	Tyr	Glu	Pro	Glu	Pro	Glu	Arg	Ala	Ile	Asp	Lys	Pro	Phe	Leu
							215					220				
	Leu	Pro	Ile	Glu	Asp	Val	Phe	Ser	Ile	Ser	Gly	Arg	Gly	Thr	Val	Val
						230					235				240	
	Thr	Gly	Arg	Val	Glu	Arg	Gly	Ile	Ile	Lys	Val	Gly	Glu	Glu	Val	Glu
					245					250					255	
	Ile	Val	Gly	Ile	Lys	Glu	Thr	Ala	Lys	Ser	Thr	Cys	Thr	Gly	Val	Glu
				260					265					270		
	Met	Phe	Arg	Lys	Leu	Leu	Asp	Glu	Gly	Arg	Ala	Gly	Glu	Asn	Val	Gly
				275				280					285			
	Val	Leu	Leu	Arg	Gly	Ile	Lys	Arg	Glu	Glu	Ile	Glu	Arg	Gly	Gln	Val
				290			295					300				
	Leu	Ala	Lys	Pro	Gly	Ser	Ile	Lys	Pro	His	Thr	Lys	Phe	Glu	Ser	Glu
						310					315				320	
	Val	Tyr	Ile	Leu	Ser	Lys	Asp	Glu	Gly	Gly	Arg	His	Thr	Pro	Phe	Phe
					325					330					335	
	Lys	Gly	Tyr	Arg	Pro	Gln	Phe	Tyr	Phe	Arg	Thr	Thr	Asp	Val	Thr	Gly
				340					345					350		

405

<210> 6021
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 6021
 Gly Ser Glu Met Ser Glu Ala Pro Lys Lys Arg Trp Tyr Val Val Gln
 1 5 10 15
 Ala Phe Ser Gly Phe Glu Gly Arg Val Ala Thr Ser Leu Arg Glu His
 20 25 30
 Ile Lys Leu His Asn Met Glu Glu Leu Phe Gly Glu Val Met Val Pro
 35 40 45
 Thr Glu Glu Val Val Glu Ile Arg Gly Gly Gln Arg Arg Lys Ser Glu
 50 55 60
 Arg Lys Phe Phe Pro Gly Tyr Val Leu Val Gln Met Val Met Asn Asp
 65 70 75 80
 Ala Ser Trp His Leu Val Arg Ser Val Pro Arg Val Met Gly Phe Ile
 85 90 95
 Gly Gly Thr Ser Asp Arg Pro Ala Pro Ile Ser Asp Lys Glu Val Asp
 100 105 110
 Ala Ile Met Asn Arg Leu Gln Gln Val Gly Asp Lys Pro Arg Pro Lys
 115 120 125
 Thr Leu Phe Glu Pro Gly Glu Met Val Arg Val Asn Asp Gly Pro Phe
 130 135 140
 Ala Asp Phe Asn Gly Val Val Glu Glu Val Asp Tyr Glu Lys Ser Arg
 145 150 155 160
 Leu Lys Val Ser Val Ser Ile Phe Gly Arg Ala Thr Pro Val Glu Leu
 165 170 175
 Asp Phe Ala Gln Val Glu Lys Ala
 180 185

<210> 6022
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 6022
 Thr Pro Gly Leu Arg Ser Ser Asn Gly Gly Pro Val Val Leu Phe Thr
 1 5 10 15
 Gln Glu Asp Val Met Val Thr Ile Arg Leu Ala Arg His Gly Ala Lys
 20 25 30
 Lys Arg Pro Phe Tyr Gln Val Val Thr Asp Ser Arg Asn Ala Arg
 35 40 45
 Asn Gly Arg Phe Ile Glu Arg Val Gly Phe Phe Asn Pro Leu Ala Ala
 50 55 60
 Gly Ala Glu Glu Glu Thr Arg Leu Asp Leu Asp Arg Ile Ala His Trp
 65 70 75 80
 Val Gly Gln Gly Val Thr Val Ser Asp Arg Val Ala Thr Leu Ile Lys
 85 90 95
 Ala Ala Asn Lys Ala Ala
 100

<210> 6023
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 6023
 Ser Val Thr Val Val Met Met Ser Asn Lys Ala Pro Val Glu Pro Ile

```

1           5           10           15
Val Leu Gly Lys Met Gly Ser Cys Tyr Gly Ile Arg Gly Trp Leu Arg
20
Val Phe Ser Ser Thr Glu Asp Ala Asp Ser Ile Phe Asp Tyr Gln Pro
35
Trp Phe Ile Gln Lys Ala Gly Lys Trp Glu Glu Val Glu Leu Glu Ser
50
Trp Arg His His Asn Gln Asp Ile Ile Ile Lys Leu Lys Gly Ile Asp
65
Asp Arg Asp Ala Ala Asn Ala Leu Thr Asn Cys Glu Ile Val Val Asp
85
Ser Ser Gln Leu Pro Gln Leu Glu Glu Gly Asp Tyr Tyr Trp Lys Asp
100
Leu Met Gly Cys Gln Val Val Thr Thr Glu Gly Tyr Ser Leu Gly Lys
115
Val Ile Asp Met Met Glu Thr Gly Ser Asn Asp Val Leu Val Ile Lys
130
Ala Asn Leu Lys Asp Ala Phe Gly Ile Lys Glu Arg Leu Val Pro Phe
145
Leu Asp Gly Gln Val Ile Lys Lys Val Asp Leu Thr Thr Gln Thr Ile
165
Glu Val Asp Trp Asp Pro Gly Phe
180
185

```

<210> 6024

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6024

```

Val Glu Ala Gln Asn Arg Glu Arg Asp Gly Val Leu Arg Ile Lys Ala
1           5           10           15
Glu Met Glu Asn Leu Arg Arg Arg Thr Glu Leu Asp Val Glu Lys Ala
20
His Lys Phe Ala Leu Glu Lys Phe Val Asn Glu Leu Leu Pro Val Ile
35
Asp Ser Leu Asp Arg Ala Leu Glu Val Ala Asp Lys Ala Asn Pro Asp
50
Asn Ala Ala Met Ile Glu Gly Ile Glu Leu Thr Leu Lys Ser Met Leu
65
Asp Val Val Arg Lys Phe Gly Val Glu Val Ile Ala Asp Thr Asp Val
85
Pro Leu Asp Pro Asn Val His Gln Ala Ile Ala Met Val Glu Ser Glu
100
Asp Val Ala Ala Gly Asn Val Leu Gly Val Met Gln Lys Gly Tyr Thr
115
Leu Asn Gly Arg Thr Ile Arg Ala Ala Met Val Thr Val Ala Lys Ala
130
Lys Ala
145

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<210> 6025

<211> 463

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (101)

<220>

<221>UNSURE

<222>(105)

<400> 6025

Arg Phe Tyr Pro Arg Arg Glu Thr Met Phe Asp Asn Leu Thr Asp Arg
 1 5 10 15
 Leu Ser Arg Thr Leu Arg Asn Ile Ser Gly Arg Gly Arg Leu Thr Glu
 20 25 30
 Glu Asn Ile Lys Glu Thr Leu Arg Glu Val Arg Met Ala Leu Leu Glu
 35 40 45
 Ala Asp Val Ala Leu Pro Val Val Arg Asp Phe Ile Asn Arg Val Lys
 50 55 60
 Glu Lys Ala Val Gly His Glu Val Asn Lys Ser Leu Thr Pro Gly Gln
 65 70 75 80
 Glu Phe Val Lys Ile Val Arg Asn Glu Leu Phe Ser Ala Met Gly Glu
 85 90 95
 Glu Asn Gln Val Xaa Asn Leu Ala Xaa Gln Pro Pro Ala Val Val Leu
 100 105 110
 Met Ala Gly Leu Gln Gly Ala Gly Lys Thr Thr Ser Val Gly Lys Leu
 115 120 125
 Gly Lys Phe Leu Arg Glu Lys His Lys Lys Lys Val Leu Val Val Ser
 130 135 140
 Ala Asp Val Tyr Arg Pro Ala Ala Ile Lys Gln Leu Glu Thr Leu Ala
 145 150 155 160
 Glu Gln Val Gly Val Asp Phe Phe Pro Ser Asp Val Ala Gln Lys Pro
 165 170 175
 Val Asp Ile Val Asn Ala Ala Leu Lys Glu Ala Lys Leu Lys Phe Tyr
 180 185 190
 Asp Val Leu Leu Val Asp Thr Ala Gly Arg Leu His Val Asp Glu Ala
 195 200 205
 Met Met Asp Glu Ile Lys Gln Val His Ala Ser Ile Asn Pro Val Glu
 210 215 220
 Thr Leu Phe Val Val Asp Ala Met Thr Gly Gln Asp Ala Ala Asn Thr
 225 230 235 240
 Ala Lys Ala Phe Asn Glu Ala Leu Pro Leu Thr Gly Val Val Leu Thr
 245 250 255
 Lys Val Asp Gly Asp Ala Arg Gly Gly Ala Ala Leu Ser Ile Arg His
 260 265 270
 Ile Thr Gly Lys Pro Ile Lys Phe Leu Gly Val Gly Glu Lys Thr Glu
 275 280 285
 Ala Leu Glu Pro Phe His Pro Asp Arg Ile Ala Ser Arg Ile Leu Gly
 290 295 300
 Met Gly Asp Val Leu Ser Leu Ile Glu Asp Ile Glu Ser Lys Val Asp
 305 310 315 320
 Arg Ala Gln Ala Glu Lys Leu Ala Ser Lys Leu Lys Lys Gly Asp Gly
 325 330 335
 Phe Asp Leu Thr Asp Phe Leu Glu Gln Leu Arg Gln Met Lys Asn Met
 340 345 350
 Gly Gly Met Ala Ser Leu Met Gly Lys Leu Pro Gly Met Gly Gln Ile
 355 360 365
 Pro Asp Asn Val Lys Ser Gln Met Asp Asp Lys Val Leu Val Arg Met
 370 375 380
 Glu Ala Ile Ile Asn Ser Met Thr Leu Lys Glu Arg Ala Lys Pro Glu
 385 390 395 400
 Ile Ile Lys Gly Ser Arg Lys Arg Arg Ile Ala Ala Gly Cys Gly Met
 405 410 415
 His Val Gln Asp Val Asn Arg Leu Leu Lys Gln Phe Asp Asp Met Gln
 420 425 430
 Arg Met Met Arg Lys Met Lys Lys Ala Gly Met Ala Glu Asp Asp Ala
 435 440 445
 Arg His Glu Lys His Asp Ala Ala Pro Phe Ser Leu Gly Glu

450

455

460

<210> 6026

<211> 262

<212> PRT

<213> *Enterobacter cloacae*

<400> 6026

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Thr Val Lys Asp Gly Ala Met Trp Ile Gly Ile Ile Ser Leu Phe Pro
1          5          10          15
Glu Met Phe Arg Ala Ile Thr Asp Tyr Gly Val Thr Gly Arg Ala Val
20          25          30
Lys Asn Gly Leu Leu Ser Ile Gln Ser Trp Ser Pro Arg Asp Phe Thr
35          40          45
His Asp Arg His Arg Thr Val Asp Asp Arg Pro Tyr Gly Gly Gly Pro
50          55          60
Gly Met Leu Met Met Val Gln Pro Leu Arg Asp Ala Ile His Thr Ala
65          70          75          80
Lys Ala Ala Ala Gly Glu Gly Ala Lys Val Ile Tyr Leu Ser Pro Gln
85          90          95
Gly Arg Lys Leu Asp Gln Ala Gly Val Ser Glu Leu Ala Thr Asn Gln
100         105         110
Lys Leu Ile Leu Val Cys Gly Arg Tyr Glu Gly Ile Asp Glu Arg Val
115         120         125
Ile Gln Thr Glu Ile Asp Glu Glu Trp Ser Ile Gly Asp Tyr Val Leu
130         135         140
Ser Gly Gly Glu Leu Pro Ala Met Thr Leu Ile Asp Ser Val Ala Arg
145         150         155         160
Phe Ile Pro Gly Val Leu Gly His Glu Ala Ser Ala Thr Glu Asp Ser
165         170         175
Phe Ala Asp Gly Val Leu Asp Cys Pro His Tyr Thr Arg Pro Glu Val
180         185         190
Leu Glu Gly Met Glu Val Pro Ala Val Leu Leu Ser Gly Asn His Ala
195         200         205
Asp Ile Arg Arg Trp Arg Leu Lys Gln Ser Leu Gly Arg Thr Trp Leu
210         215         220
Arg Arg Pro Glu Leu Leu Glu Asn Leu Ala Leu Thr Glu Glu Gln Ala
225         230         235         240
Lys Leu Leu Ala Glu Phe Lys Thr Glu His Ala His Gln Gln His Glu
245         250         255
His Asp Gly Lys Ala
260

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<210> 6027

<211> 296

<212> PRT

<213> *Enterobacter cloacae*

<400> 6027

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His Glu Gly Ala Phe Val Val Met Gln Arg Leu Glu Gln Ala Ser Arg
1          5          10          15
Asn Val Ile Leu Leu Leu Phe Leu Ile Lys Thr Thr Val Asp Ala Tyr
20          25          30
Met Pro Val Phe Ala Leu Ile Ala Leu Val Ala Tyr Ser Val Ser Leu
35          40          45
Ala Leu Ile Ile Pro Gly Leu Leu Gln Lys Asn Ser Gly Trp Arg Arg
50          55          60
Met Ala Ile Leu Ser Ala Val Ile Ala Leu Ile Ser His Ala Phe Ala
65          70          75          80
Leu Glu Ser Arg Ile Ile Pro Gly Asp Gly Ser Val Gln Asn Leu Ser
85          90          95

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Val Leu Asn Val Gly Ser Leu Val Ser Leu Met Ile Cys Thr Val Met
 100 105 110
 Thr Ile Val Ala Ser Lys Asn Arg Gly Trp Leu Leu Leu Pro Ile Val
 115 120 125
 Tyr Ala Phe Ala Leu Ile Asn Leu Ala Leu Ala Thr Phe Met Pro Asn
 130 135 140
 Glu Phe Ile Thr His Leu Glu Ala Thr Pro Gly Met Leu Val His Ile
 145 150 155 160
 Gly Leu Ser Leu Phe Ala Tyr Ala Thr Leu Ile Ile Ala Ala Leu Tyr
 165 170 175
 Ala Met Gln Leu Ala Trp Ile Asp Tyr Gln Leu Lys Asn Lys Lys Leu
 180 185 190
 Ala Phe Asn His Glu Met Pro Pro Leu Met Val Ile Glu Arg Lys Met
 195 200 205
 Phe His Ile Thr Gln Val Gly Val Val Leu Leu Thr Leu Thr Leu Cys
 210 215 220
 Thr Gly Leu Phe Tyr Met Lys Asn Leu Phe Ser Val Glu Asn Ile Asp
 225 230 235 240
 Lys Ala Val Leu Ser Ile Ile Ala Trp Phe Val Tyr Ile Val Leu Leu
 245 250 255
 Trp Gly His Tyr His Glu Gly Trp Arg Gly Arg Arg Val Val Trp Phe
 260 265 270
 Asn Val Ala Gly Ala Gly Ile Leu Thr Leu Ala Tyr Phe Gly Ser Arg
 275 280 285
 Phe Ile Gln Gln Phe Ala Gly
 290 295

<210> 6028

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 6028

Gln Lys Glu Phe Pro Leu Glu His Ile Ser Thr Thr Thr Leu Ile Val
 1 5 10 15
 Ile Leu Val Ile Met Val Val Ile Ser Ala Tyr Phe Ser Gly Ser Glu
 20 25 30
 Thr Gly Met Met Thr Leu Asn Arg Tyr Arg Leu Arg His Arg Ala Lys
 35 40 45
 Gln Gly Asn Arg Ala Ala Arg Arg Val Glu Lys Leu Leu Arg Lys Pro
 50 55 60
 Asp Arg Leu Ile Ser Leu Val Leu Ile Gly Asn Asn Leu Val Asn Ile
 65 70 75 80
 Leu Ala Ser Ala Leu Gly Thr Ile Val Gly Met Arg Leu Tyr Gly Asn
 85 90 95
 Ala Gly Val Ala Ile Ala Thr Gly Val Leu Thr Phe Val Val Leu Val
 100 105 110
 Phe Ala Glu Val Leu Pro Lys Thr Ile Ala Ala Leu Tyr Pro Glu Lys
 115 120 125
 Val Ala Tyr Pro Ser Ser Phe Leu Leu Ala Pro Leu Leu Ile Leu Met
 130 135 140
 Met Pro Leu Val Trp Leu Leu Asn Met Val Thr Arg Val Leu Met Arg
 145 150 155 160
 Met Val Gly Ile Lys Ala Asp Val Thr Ile Ser Ser Ala Leu Ser Lys
 165 170 175
 Asp Glu Leu Arg Thr Ile Val Asn Glu Ser Arg Ser Gln Ile Ser Arg
 180 185 190
 Arg Asn Gln Asp Met Leu Leu Ser Val Leu Asp Leu Glu Lys Val Ser
 195 200 205
 Val Asp Asp Ile Met Val Pro Arg Asn Glu Ile Val Gly Ile Asp Ile
 210 215 220

Asn Asp Asp Trp Lys Ala Ile Val Arg Gln Leu Thr His Ser Pro His
 225 230 235 240
 Gly Arg Ile Val Leu Tyr Arg Asp Ser Leu Asp Asp Ala Ile Ser Met
 245 250 255
 Leu Arg Val Arg Glu Ala Tyr Arg Leu Met Thr Glu Lys Asn Glu Phe
 260 265 270
 Thr Lys Glu Val Met Leu Arg Ala Ala Asp Glu Ile Tyr Tyr Val Pro
 275 280 285
 Glu Gly Thr Pro Leu Ser Thr Gln Leu Val Lys Phe Gln Arg Asn Lys
 290 295 300
 Lys Lys Val Gly Leu Val Val Asp Glu Tyr Gly Asp Ile Gln Gly Leu
 305 310 315 320
 Val Thr Val Glu Asp Ile Leu Glu Glu Ile Val Gly Asp Phe Thr Thr
 325 330 335
 Ser Met Ser Pro Ser Leu Ala Glu Glu Val Thr Pro Gln Asn Asp Gly
 340 345 350
 Ser Val Leu Ile Asp Gly Ser Ala Asn Ile Arg Glu Ile Asn Lys Ala
 355 360 365
 Phe Asn Trp His Leu Pro Glu Asp Glu Ala Arg Thr Met Asn Gly Met
 370 375 380
 Ile Leu Glu Ala Leu Glu Glu Ile Pro Ala Thr Gly Thr Arg Val Arg
 385 390 395 400
 Ile Glu Gln Tyr Asp Ile Asp Ile Leu Asp Val Gln Asp Asn Met Ile
 405 410 415
 Lys Gln Val Lys Val Leu Pro Val Lys Pro Leu Arg Glu Ser Ile Ala
 420 425 430
 Glu

<210> 6029

<211> 365

<212> PRT

<213> *Enterobacter cloacae*

<400> 6029

Arg Pro Arg Trp Gly Glu Lys Ile Lys Arg Phe Ser Asp Leu Ile Ile
 1 5 10 15
 Lys Glu Ser Arg His His Met Ala Val Ala Lys Lys Ile Thr Ile Asn
 20 25 30
 Asp Val Ala Leu Ala Ala Gly Val Ser Val Ser Thr Val Ser Leu Val
 35 40 45
 Leu Ser Gly Lys Gly Arg Ile Ser Pro Ala Thr Gly Gln Arg Val Asn
 50 55 60
 Glu Ala Val Glu Gln Leu Gly Phe Val Arg Asn Arg Gln Ala Ser Ala
 65 70 75 80
 Leu Arg Gly Gly Gln Ser Gly Val Ile Gly Leu Ile Val Arg Asp Leu
 85 90 95
 Ala Ser Pro Phe Tyr Ala Glu Leu Thr Ala Gly Leu Thr Glu Ala Leu
 100 105 110
 Glu Ala Gln Gly Arg Met Val Phe Leu Leu His Gly Gly Arg Glu Pro
 115 120 125
 Glu Gln Leu Leu Ser Arg Leu Asp Leu Leu Leu Thr Gln Gly Val Asp
 130 135 140
 Gly Val Ile Val Ala Gly Ala Ser Gly Val Gly Ser Glu Leu Cys Glu
 145 150 155 160
 Arg Ala Ala Gln Lys Gly Val Pro Leu Val Phe Ala Ser Arg Ala Ser
 165 170 175
 Tyr Leu Asp Glu Ala Asp Thr Leu Arg Pro Asp Asn Met Gln Ala Ala
 180 185 190
 Gln Met Leu Thr Glu His Leu Ile His Arg Gly His Gln Arg Ile Ala
 195 200 205

Trp Leu Gly Gly Lys Ser Ser Ser Leu Thr Arg Ala Glu Arg Val Gly
 210 215 220
 Gly Tyr Cys Ser Thr Leu Ile Lys Tyr Gly Leu Pro Phe His Ser Glu
 225 230 235 240
 Trp Val Val Glu Cys Glu Ser Ser Gln Lys Lys Ala Ala Glu Ala Ile
 245 250 255
 Gly Thr Leu Leu Arg Asn Ser Pro Thr Ile Ser Ala Val Ile Cys Tyr
 260 265 270
 Asn Asp Val Ile Ala Met Gly Ala Trp Phe Gly Leu Ile Arg Ala Gly
 275 280 285
 Arg Gln Ser Gly Glu Gly Gly Val Glu Thr Phe Phe Gly His Gln Val
 290 295 300
 Ala Leu Gly Ala Phe Ala Asp Val Gly Glu Asn Ala Leu Asp Asp Leu
 305 310 315 320
 Pro Ile Val Trp Ala Thr Thr Pro Ala Arg Glu Met Gly Tyr Thr Leu
 325 330 335
 Ala Glu Arg Ile Met Gln Arg Ile Glu Asn Thr Asp Val Gln Ala Gly
 340 345 350
 His Gln Ile Val Ala Ala Arg Leu Leu Thr Val Lys
 355 360 365

<210> 6030

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 6030

Ile Ser Phe Tyr Pro Leu Arg Ser Arg Phe Met Thr Thr Lys Ala Ala
 1 5 10 15
 Gln Lys Ile Ser Leu Trp Glu Phe Phe Gln Gln Leu Gly Lys Thr Phe
 20 25 30
 Met Leu Pro Val Ala Leu Leu Ser Phe Cys Gly Ile Met Leu Gly Ile
 35 40 45
 Gly Ser Ser Leu Ser Ser His Asp Val Ile Thr Leu Ile Pro Phe Leu
 50 55 60
 Gly Asn Pro Val Leu Gln Ala Ile Phe Ile Trp Met Ser Lys Val Gly
 65 70 75 80
 Ser Phe Ala Phe Ser Phe Leu Pro Val Met Phe Cys Ile Ala Ile Pro
 85 90 95
 Leu Gly Leu Ala Arg Glu Asn Lys Gly Val Ala Ala Phe Ala Gly Phe
 100 105 110
 Val Gly Tyr Ala Val Met Asn Leu Ala Val Asn Phe Trp Leu Thr Ala
 115 120 125
 Lys Gly Ile Leu Pro Thr Thr Asp Ala Ala Val Val Lys Ala Asn Asn
 130 135 140
 Ile Gln Ser Val Ile Gly Ile Gln Ser Ile Asp Thr Gly Ile Leu Gly
 145 150 155 160
 Ala Val Ile Ala Gly Val Ile Ile Trp Met Leu His Glu Arg Phe His
 165 170 175
 Asn Ile Arg Leu Pro Asp Ala Leu Ala Phe Phe Gly Gly Thr Arg Phe
 180 185 190
 Val Pro Ile Ile Thr Leu Val Val Met Gly Leu Phe Gly Leu Ile Ile
 195 200 205
 Pro Leu Ile Trp Pro Ile Phe Ala Met Gly Asp His Arg Asp Trp Pro
 210 215 220
 His Tyr Gln Arg Arg Gly
 225 230

<210> 6031

<211> 201

<212> PRT

<213> *Enterobacter cloacae*

<400> 6031

Gly Gly Phe Thr Leu Arg Ser Thr Val Met Phe Asp Phe Ser Thr Val
 1 5 10 15
 Val Asp Arg His Gly Thr Trp Cys Thr Gln Trp Asp Tyr Val Ala Asp
 20 25 30
 Arg Phe Gly Ala Ala Asp Leu Leu Pro Phe Thr Ile Ser Asp Met Asp
 35 40 45
 Phe Ala Thr Ala Pro Cys Ile Thr Asp Ala Leu His Gln Arg Ile Asn
 50 55 60
 His Gly Val Phe Gly Tyr Ser Arg Trp Lys Asn Asp Glu Phe Leu Ala
 65 70 75 80
 Ala Val Ala His Trp Phe Arg Gln Arg Phe Asn Ser Gln Ile Asp Thr
 85 90 95
 Glu Thr Val Val Tyr Gly Pro Ser Val Ile Tyr Met Val Ser Glu Leu
 100 105 110
 Ile Arg Leu Trp Ser Ser Pro Gly Asp Gly Val Val Val His Thr Pro
 115 120 125
 Ala Tyr Asp Ala Phe Tyr Lys Ala Ile Glu Gly Asn Gln Arg Thr Val
 130 135 140
 Val Ser Val Pro Met Gln Lys Thr Ala His Gly Trp Glu Gly Asp Met
 145 150 155 160
 Ala Ser Leu Glu Thr Ala Leu Ser Lys Pro Glu Asn Lys Val Leu Leu
 165 170 175
 Leu Cys Tyr Pro Gln Asn Pro Thr Gly Lys Ile Trp Thr Arg Glu Ala
 180 185 190
 Leu Asn Thr Met Gly Gly Pro Val
 195 200

<210> 6032

<211> 331

<212> PRT

<213> *Enterobacter cloacae*

<400> 6032

Phe Gly Arg Phe Leu Pro Trp Gly Ile Thr Gly Ile Gly Arg Ile Ile
 1 5 10 15
 Asn Gly Ala Gly Asp Phe Gly Pro Met Ile Phe Gly Thr Gly Glu Arg
 20 25 30
 Leu Leu Leu Pro Phe Gly Leu Gln His Ile Leu Val Ala Leu Ile Arg
 35 40 45
 Phe Thr Glu Ala Gly Gly Thr Met Asp Val Cys Gly His Ser Val Ser
 50 55 60
 Gly Ala Leu Thr Ile Phe Gln Ala Gln Leu Ser Cys Pro Thr Thr His
 65 70 75 80
 Gly Phe Ser Glu Ser Ala Thr Arg Phe Leu Ser Gln Gly Lys Met Pro
 85 90 95
 Ala Phe Leu Gly Gly Leu Pro Gly Ala Ala Leu Ala Met Tyr His Cys
 100 105 110
 Ala Arg Pro Glu Asn Arg His Lys Ile Lys Gly Leu Leu Ile Ser Gly
 115 120 125
 Val Ile Ala Cys Val Val Gly Gly Thr Thr Glu Pro Ile Glu Phe Leu
 130 135 140
 Phe Leu Phe Val Ala Pro Val Leu Tyr Leu Ile His Ala Val Leu Thr
 145 150 155 160
 Gly Leu Gly Phe Thr Val Met Ala Val Leu Gly Val Thr Ile Gly Asn
 165 170 175
 Thr Asp Gly Asn Val Ile Asp Phe Val Val Phe Gly Ile Leu His Gly
 180 185 190
 Leu Ser Thr Lys Trp Tyr Leu Val Pro Val Val Ala Ala Ile Trp Phe

195	200	205
Ala Val Tyr Tyr Gly Ile Phe Arg Phe Ala Ile Thr Arg Phe Asn Leu		
210	215	220
Lys Thr Pro Gly Arg Asp Thr Ala Thr Ser Val Glu Gln Ala		
225	230	235
Val Ala Gly Thr Val Gly Lys Ser Gly Tyr Asn Thr Pro Ala Ile Leu		
245	250	255
Ala Ala Leu Gly Gly Ala Asp Asn Ile Thr Ser Leu Asp Asn Cys Ile		
260	265	270
Thr Arg Leu Arg Leu Ser Val Ala Asp Met Ser Lys Val Asp Thr Asn		
275	280	285
Ala Leu Lys Ala Asn Arg Ala Ile Gly Val Val Gln Leu Asn Gln His		
290	295	300
Asn Leu Gln Val Val Ile Gly Pro Gln Val Gln Ser Val Lys Asp Glu		
305	310	315
Leu Ala Thr Leu Met Arg Thr Val Glu Ala		
325	330	

<210> 6033

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6033

Leu Ser Ala Arg Gly Gly Thr Met Thr Gln Pro Leu Ala Gly Lys His		
1	5	10
Ile Leu Ile Val Glu Asp Glu Pro Val Phe Arg Ser Leu Leu Asp Ser		
20	25	30
Trp Leu Ser Ser Leu Gly Ala Thr Thr Ser Leu Ala Glu Asp Gly Val		
35	40	45
Glu Ala Leu Glu Lys Met Ala Ser Met Ala Pro Asp Leu Met Ile Cys		
50	55	60
Asp Leu Glu Met Pro Arg Met Asp Gly Leu Met Leu Val Glu Asn Leu		
65	70	75
Arg Asn Glu Gly Tyr Gln Thr Pro Ile Leu Val Ile Ser Ala Thr Glu		
85	90	95
Asn Met Ala Asp Ile Ala Lys Ala Leu Arg Leu Gly Val Gln Asn Ile		
100	105	110
Leu Leu Lys Pro Val Lys Asp Leu Asn Arg Leu Arg Glu Thr Val Leu		
115	120	125
Ala Cys Leu Tyr Pro Asn Met Phe Asn Ser Arg Val Glu Glu Glu Glu		
130	135	140
Arg Leu Phe Gln Asp Trp Asp Ala Leu Val Ser Asn Pro Leu Ala Ala		
145	150	155
Ala Lys Leu Leu Gln Glu Leu Gln Pro Pro Val Gln Gln Asn Ile Ser		
165	170	175
His Cys Arg Val Asn Tyr Arg Gln Leu Val Ala Ala Asp Gln Pro Gly		
180	185	190
Leu Val Leu Asp Ile Ala Pro Leu Ser Asp Ser Asp Leu Ala Phe Tyr		
195	200	205
Cys Leu Asp Val Thr Arg Ala Gly Asp Asn Gly Val Leu Ala Ala Leu		
210	215	220
Leu Leu Arg Ala Leu Phe Asn Gly Leu Leu Gln Glu Gln Leu Ser His		
225	230	235
Gln Gly Gln Arg Leu Pro Glu Leu Gly Ser Leu Leu Lys Gln Val Asn		
245	250	255
Gln Leu Phe Arg Gln Ala Asn Leu Pro Gly Gln Phe Pro Leu Leu Val		
260	265	270
Gly Tyr Tyr His Ser Gly Leu Asn Asn Leu Ile Leu Val Ser Ala Gly		
275	280	285
Leu Asn Ala Thr Leu Asn Thr Gly Glu His His Ile Gln Val Ser Asn		

290 295 300
 Gly Val Pro Leu Gly Thr Leu Gly Asn Thr Tyr Leu Asn Gln Ile Ser
 305 310 315 320
 His Arg Cys Thr Ser Trp Gln Cys Gln Ile Trp Gly Ala Gly Arg
 325 330 335
 Leu Arg Leu Met Leu Ser Thr Glu
 340 345

<210> 6034

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 6034

Ala Gly Ala Leu Thr Leu Cys Arg Glu Ser Arg Gly Ser Lys Thr Gly
 1 5 10 15
 Leu Met Arg Lys Val Lys Ile Gly Leu Ala Leu Gly Ser Gly Ala Ala
 20 25 30
 Arg Gly Trp Ser His Ile Gly Val Ile Asn Thr Leu Asn Gln Met Gly
 35 40 45
 Ile Asp Val Asp Ile Val Ala Gly Cys Ser Ile Gly Ser Leu Val Gly
 50 55 60
 Ser Ala Tyr Ala Cys Gly Lys Leu Pro Glu Leu Glu Ser Trp Val Arg
 65 70 75 80
 Ser Phe Ser Tyr Trp Asp Val Leu Arg Leu Met Asp Leu Ser Trp Gln
 85 90 95
 Arg Gly Gly Leu Leu Arg Gly Glu Arg Val Phe Asn Gln Phe Arg Lys
 100 105 110
 Ile Met Pro Leu Ala Asp Phe Ser His Cys Gln Met Pro Phe Gly Ala
 115 120 125
 Val Ala Thr Asn Leu Ser Thr Gly Arg Glu Leu Trp Leu Thr Glu Gly
 130 135 140
 Asp Ile His Leu Ala Val Arg Ala Ser Cys Ser Met Pro Gly Leu Met
 145 150 155 160
 Ala Pro Val Pro His Asn Gly Tyr Trp Leu Val Asp Gly Gly Val Val
 165 170 175
 Asn Pro Val Pro Val Ser Leu Thr Arg Ala Met Gly Ala Asp Ile Val
 180 185 190
 Ile Ala Val Asp Leu Gln His Asp Ala His Leu Met Gln Gln Asp Leu
 195 200 205
 Met Pro Val Asn Leu Gln Ser Asp Asp Ala Glu Glu Glu Lys Leu Ala
 210 215 220
 Trp His Ala Arg Leu Arg Gly Arg Ile Gly Arg Leu Ala Ala Arg Arg
 225 230 235 240
 Ala Val Thr Ala Pro Asn Ala Ile Glu Ile Met Thr Thr Ser Ile Gln
 245 250 255
 Ile Leu Glu Asn Arg Leu Lys Arg Asn Arg Met Ala Gly Asp Pro Pro
 260 265 270
 Asp Ile Leu Ile Gln Pro Tyr Cys Pro Gln Ile Ser Thr Leu Asp Phe
 275 280 285
 His Arg Ala Glu Ala Ala Ile Ala Ala Gly Ser Leu Ala Val Glu Lys
 290 295 300
 Lys Ile Asp Glu Leu Leu Pro Phe Val Arg Thr Ala Arg
 305 310 315

<210> 6035

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 6035

Cys Cys Pro Arg Ser Lys Gln Ser Asp Phe Ile Phe Gln Ile Ala Leu
 1 5 10 15
 Pro Val Phe Leu Leu Ala Val Leu Leu Ser Leu Gln Val Ser Cys Val
 20 25 30
 Phe Val Leu Ile Asp Arg Gln Arg Val Leu Phe Arg Pro Val Leu Val
 35 40 45
 Ala Glu Thr Val Tyr Ser Thr Arg Tyr Ser Met His Lys Ser Ser Lys
 50 55 60
 Leu Glu Gln Phe Arg Arg Ile Ser Met Ala Ala Leu Asn Ser Lys Val
 65 70 75 80
 Arg Lys Ala Val Ile Pro Val Ala Gly Leu Gly Thr Arg Met Leu Pro
 85 90 95
 Ala Thr Lys Ala Ile Pro Lys Glu Met Leu Pro Leu Val Asp Lys Pro
 100 105 110
 Leu Ile Gln Tyr Val Val Asn Glu Cys Ile Ala Ala Gly Ile Thr Glu
 115 120 125
 Ile Val Leu Val Thr His Ser Ser Lys Asn Ser Ile Glu Asn His Phe
 130 135 140
 Asp Thr Ser Phe Glu Leu Glu Ala Met Leu Glu Lys Arg Val Lys Arg
 145 150 155 160
 Gln Leu Leu Glu Glu Val Gln Ser Ile Cys Pro Pro His Val Thr Ile
 165 170 175
 Met Gln Val Arg Gln Gly Leu Ala Lys Gly Leu Gly His Ala Val Leu
 180 185 190
 Cys Ala His Pro Val Val Gly Asp Glu Pro Val Ala Val Ile Leu Pro
 195 200 205
 Asp Val Ile Leu Asp Glu Tyr Glu Ser Asp Leu Ser Gln Glu Asn Leu
 210 215 220
 Ala Glu Met Ile Lys Arg Phe Asp Glu Thr Gly Ser Ser Gln Ile Met
 225 230 235 240
 Val Glu Pro Val Asp Asp Val Thr Ala Tyr Gly Val Val Asp Cys Lys
 245 250 255
 Gly Val Asp Leu Gln Pro Gly Glu Ser Val Pro Ile Val Val Phe Thr
 260 265 270
 Thr Gly Ala Asp Gly Ala Gly
 275 280

<210> 6036

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 6036

Cys Leu Thr Thr Gln Thr Ser Gln Ile His Lys Gln Asp Phe Pro Ala
 1 5 10 15
 Met Gln Ser Leu Gln Arg Lys Val Leu Arg Thr Ile Cys Pro Asp Gln
 20 25 30
 Lys Gly Leu Ile Ala Arg Ile Thr Asn Ile Cys Tyr Lys His Glu Leu
 35 40 45
 Asn Ile Val Gln Asn Asn Glu Phe Val Asp His Arg Thr Gly Arg Phe
 50 55 60
 Phe Met Arg Thr Glu Leu Glu Gly Ile Phe Asn Asp Thr Thr Leu Leu
 65 70 75 80
 Ala Asp Leu Asp Ser Ala Leu Pro Glu Gly Ser Val Arg Glu Leu Asn
 85 90 95
 Pro Ala Gly Arg Arg Arg Ile Val Ile Leu Val Thr Lys Glu Ala His
 100 105 110
 Cys Leu Gly Asp Leu Leu Met Lys Ala Asn Tyr Gly Gly Leu Asp Val
 115 120 125
 Glu Ile Ala Ala Val Ile Gly Asn His Glu Thr Leu Arg Thr Leu Val
 130 135 140

Glu Arg Phe Asp Ile Pro Phe Glu Leu Val Ser His Glu Gly His Thr
 145 150 155 160
 Arg Glu Glu His Asp Asn Leu Met Ala Ala Ile Glu Ala His Asn
 165 170 175
 Pro Asp Tyr Val Val Leu Ala Lys Tyr Met Arg Val Leu Thr Pro Ser
 180 185 190
 Phe Val Ala Arg Phe Pro Asn Lys Ile Ile Asn Ile His His Ser Phe
 195 200 205
 Leu Pro Ala Phe Ile Gly Ala Arg Pro Tyr His Gln Ala Tyr Glu Arg
 210 215 220
 Gly Val Lys Ile Ile Gly Ala Thr Ala His Tyr Val Asn Asp Asn Leu
 225 230 235 240
 Asp Glu Gly Pro Ile Ile Met Gln Asp Val Ile His Val Asp His Thr
 245 250 255
 Tyr Thr Ala Glu Asp Met Met Arg Ala Gly Arg Asp Val Glu Lys Asn
 260 265 270
 Val Leu Ser Arg Ala Leu Tyr Gln Val Leu Ala Gln Arg Val Phe Val
 275 280 285
 Tyr Gly Asn Arg Thr Ile Ile Leu
 290 295

<210> 6037

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 6037

Arg Leu Ile Phe Cys Ser Arg Lys Arg Ile Val Ser Gln Leu Cys Pro
 1 5 10 15
 Cys Gly Ser Ala Leu Glu Tyr Ser Leu Cys Cys Gln Arg Tyr Leu Ser
 20 25 30
 Gly Lys Gln Val Ala Pro Asp Pro Ser His Leu Met Arg Ser Arg Tyr
 35 40 45
 Thr Ala Phe Val Ile Lys Asn Ala Asp Tyr Leu Ile Lys Thr Trp His
 50 55 60
 Pro Ser Cys His Ala Ala Asp Phe Arg Gln Glu Ile Glu Ala Gly Phe
 65 70 75 80
 Ala Asn Thr Val Trp Gln Gly Leu Thr Val Phe Glu Ala Ala Pro Gly
 85 90 95
 Arg Asp Ala Asn Glu Gly Tyr Val Ser Phe Val Ala Arg Phe Ser Glu
 100 105 110
 Gln Asn Lys Pro Gly Ala Ile Ile Glu Arg Ser Arg Phe Leu Lys Asp
 115 120 125
 Ser Gly Gln Trp Tyr Tyr Ile Asp Gly Thr Arg Pro Gln Phe Gly Arg
 130 135 140
 Asn Asp Pro Cys Pro Cys Gly Ser Gly Lys Lys Phe Lys Lys Cys Cys
 145 150 155 160
 Gly Ser Asn Ala
 165

<210> 6038

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 6038

Gly Tyr Thr Arg Ala Thr Met Ala His Thr Lys Arg Ser Asp Leu Ala
 1 5 10 15
 Arg Ala Ser Gly Pro His Lys Val Arg Arg Ser Pro Asp Trp Ser Leu
 20 25 30
 Gln Leu Asp Ser Met Lys Ser Glu Ser Leu Val Ile Val Asp Gln Asn

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      35              40              45
Ala Thr Val Asn Thr Phe Pro Gly Leu Val His Thr Ala Arg His Thr
    50              55              60
Met Gly Val Gly Cys Lys Arg Ser Arg
    65              70

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<210> 6039
 <211> 63
 <212> PRT
 <213> Enterobacter cloacae

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<400> 6039
Glu Ser Gly Pro Cys Leu Ser Ser Ser Val Ala Gly His Pro Leu Arg
1              5              10              15
Pro Ala Arg Asp Arg Arg Leu Gly Glu Pro Leu Pro His Leu Ala
    20              25              30
Asn Pro Ile Trp Ala His Pro Met Ala Arg Gly Pro Lys Val Pro Leu
    35              40              45
Phe Gly Leu Ala Thr Leu Cys Gly Ile Ser Tyr Arg Phe Gln
    50              55              60

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<210> 6040
 <211> 215
 <212> PRT
 <213> Enterobacter cloacae

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<400> 6040
Val Ser Gln Gln Val Ser Thr Val Leu Asn Lys Leu Ser Arg Leu Leu
1              5              10              15
Glu Gln Ala Gly Ile Ser Leu Thr Asp His Gln Lys Asn Gln Leu Val
    20              25              30
Ala Tyr Val Asp Met Leu Asn Lys Trp Asn Lys Ala Tyr Asn Leu Thr
    35              40              45
Ser Val Arg Asp Pro Asn Glu Met Leu Ile Arg His Ile Leu Asp Ser
    50              55              60
Ile Val Val Ala Pro Tyr Leu Asn Gly Glu Arg Phe Ile Asp Val Gly
65              70              75              80
Thr Gly Pro Gly Leu Pro Gly Val Pro Leu Ser Ile Val Arg Pro Glu
    85              90              95
Ser His Phe Thr Thr Leu Leu Asp Ser Leu Gly Lys Arg Val Arg Phe Leu
    100              105              110
Arg Gln Val Gln His Glu Leu Lys Leu Glu Asn Ile Thr Pro Val Gln
    115              120              125
Ser Arg Val Glu Glu Phe Pro Ala Glu Pro Pro Phe Asp Gly Val Ile
    130              135              140
Ser Arg Ala Phe Ala Ser Leu Asn Asp Met Val Ser Trp Cys Lys His
145              150              155              160
Leu Pro Ala Glu Lys Gly Arg Phe Tyr Ala Leu Lys Gly Gln Leu Pro
    165              170              175
Gly Asp Glu Ile Glu Gln Leu Pro Asp Gly Phe Ala Val Glu Ser Ile
    180              185              190
Glu Lys Leu Gln Ile Pro Gln Leu Glu Gly Glu Arg His Leu Val Ile
    195              200              205
Ile Lys Pro Asn Thr Phe
    210              215

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<210> 6041
 <211> 137
 <212> PRT
 <213> Enterobacter cloacae

<400> 6041

Gln Arg Val Lys Gly Ile Met Ala Ser Glu Asn Met Thr Pro Gln Asp
 1 5 10 15
 Tyr Ile Gly His Leu Asn Asn Leu Gln Leu Asp Leu Arg Thr Phe
 20 25 30
 Ser Leu Val Asp Pro His Asn Pro Ala Thr Phe Trp Thr Ile Asn
 35 40 45
 Ile Asp Ser Met Phe Phe Ser Val Val Leu Gly Leu Leu Phe Leu Ala
 50 55 60
 Met Phe Arg Ser Val Ala Lys Lys Ala Thr Ser Gly Val Pro Gly Lys
 65 70 75 80
 Phe Gln Thr Phe Ile Glu Met Ile Ile Gly Phe Val His Gly Ser Val
 85 90 95
 Lys Glu Leu Tyr His Gly Lys Ser Lys Leu Ile Ala Pro Leu Ala Leu
 100 105 110
 Asn Val Phe Val Trp Val Phe Leu Met Thr Leu Met Asp Leu Leu Pro
 115 120 125
 Ile His Phe Leu Pro Trp Asp Arg
 130 135

<210> 6042

<211> 649

<212> FRT

<213> Enterobacter cloacae

<400> 6042

Asn Pro Arg Pro Gly Leu Gln Ser Ile Phe Ile Pro Leu Tyr Ala Arg
 1 5 10 15
 Gln Thr Thr Met Phe Tyr Gln Asp Pro Phe Asp Val Ile Ile Gly
 20 25 30
 Gly Gly His Ala Gly Thr Glu Ala Ala Met Ala Ala Arg Met Gly
 35 40 45
 Gln Gln Thr Leu Leu Leu Thr His Asn Ile Asp Thr Leu Gly Gln Met
 50 55 60
 Ser Cys Asn Pro Ala Ile Gly Gly Ile Gly Lys Gly His Leu Val Lys
 65 70 75 80
 Glu Val Asp Ala Leu Gly Gly Leu Met Ala Lys Ala Ile Asp His Ala
 85 90 95
 Gly Ile Gln Phe Arg Ile Leu Asn Ala Ser Lys Gly Pro Ala Val Arg
 100 105 110
 Ala Thr Arg Ala Gln Ala Asp Arg Val Leu Tyr Arg Gln Ala Val Arg
 115 120 125
 Thr Ala Leu Glu Asn Gln Pro Asn Leu Met Ile Phe Gln Gln Ala Val
 130 135 140
 Glu Asp Leu Ile Val Glu Asn Asp Arg Val Val Gly Ala Val Thr Gln
 145 150 155 160
 Met Gly Leu Lys Phe Arg Ala Lys Ala Val Val Leu Thr Val Gly Thr
 165 170 175
 Phe Leu Asp Gly Lys Ile His Ile Gly Leu Asp Asn Tyr Ser Gly Gly
 180 185 190
 Arg Ala Gly Asp Pro Pro Ser Ile Pro Leu Ser Arg Arg Leu Arg Glu
 195 200 205
 Leu Pro Leu Arg Val Ser Arg Leu Lys Thr Gly Thr Pro Pro Arg Ile
 210 215 220
 Asp Ala Arg Thr Ile Asp Phe Ser Val Leu Ala Gln Gln His Gly Asp
 225 230 235 240
 Asn Pro Met Pro Val Phe Ser Phe Met Gly Asn Ala Ala Gln His Pro
 245 250 255
 Gln Gln Val Pro Cys Tyr Ile Thr His Thr Asn Glu Lys Thr His Asp
 260 265 270
 Val Ile Arg Asn Asn Leu Asp Arg Ser Pro Met Tyr Ala Gly Val Ile

275 280 285
 Glu Gly Ile Gly Pro Arg Tyr Cys Pro Ser Ile Glu Asp Lys Val Met
 290 295 300
 Arg Phe Ala Asp Arg Asn Gln His Gln Ile Phe Leu Glu Pro Glu Gly
 305 310 315
 Leu Thr Ser Asn Glu Ile Tyr Pro Asn Gly Ile Ser Thr Ser Leu Pro
 325 330 335
 Phe Asp Val Gln Met Gln Ile Val Arg Ser Met Gln Gly Met Glu Asn
 340 345 350
 Ala Lys Ile Val Arg Pro Gly Tyr Ala Ile Glu Tyr Asp Phe Phe Asp
 355 360 365
 Pro Arg Asp Leu Lys Pro Thr Leu Glu Ser Lys Phe Ile Gln Gly Leu
 370 375 380
 Phe Phe Ala Gly Gln Ile Asn Gly Thr Thr Gly Tyr Glu Glu Ala Ala
 385 390 395 400
 Ala Gln Gly Leu Leu Ala Gly Leu Asn Ala Ala Arg Phe Ser Ala Glu
 405 410 415
 Lys Glu Gly Trp Ala Pro Ala Arg Ser Gln Ala Tyr Leu Gly Val Leu
 420 425 430
 Val Asp Asp Leu Cys Thr Leu Gly Thr Lys Glu Pro Tyr Arg Met Phe
 435 440 445
 Thr Ser Arg Ala Glu Tyr Arg Leu Met Leu Arg Glu Asp Asn Ala Asp
 450 455 460
 Leu Arg Leu Thr Glu Val Gly Arg Glu Leu Gly Leu Val Asp Asp Glu
 465 470 475 480
 Arg Trp Ala Arg Phe Asn Glu Lys Leu Glu Arg Ile Glu Gln Glu Arg
 485 490 495
 Gln Arg Leu Lys Thr Thr Trp Val Asn Pro Gln Ala Glu Thr Ala Ala
 500 505 510
 Glu Val Asn Ala His Leu Thr Ala Pro Leu Ser Arg Glu Ala Ser Gly
 515 520 525
 Glu Asp Leu Leu Arg Arg Pro Glu Val Thr Tyr Glu Asn Leu Val Lys
 530 535 540
 Leu Thr Ala Phe Ala Pro Gly Leu Glu Asp Ala Glu Ala Ala Glu Gln
 545 550 555 560
 Val Glu Ile Gln Val Lys Tyr Glu Gly Tyr Ile Ala Arg Gln Gln Asp
 565 570 575
 Glu Ile Glu Lys Gln Gln Arg Asn Glu Asn Thr Leu Leu Pro Glu Met
 580 585 590
 Leu Asp Tyr Arg Gln Val Thr Gly Leu Ser Asn Glu Val Ile Ala Lys
 595 600 605
 Leu Asn Asp His Lys Pro Val Ser Ile Gly Gln Ala Ser Arg Ile Ser
 610 615 620
 Gly Val Thr Pro Ala Ala Ile Ser Ile Leu Leu Val Trp Leu Lys Lys
 625 630 635 640
 Gln Gly Met Leu Arg Arg Ser Ala
 645

<210> 6043

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 6043

Cys Leu Thr Leu Ser Leu Lys Gly Arg Phe Ile Arg His Ala Ala Tyr
 1 5 10 15
 Leu Glu Gly Ser Arg Ser Lys Asn Val Met Ser Val Ser Leu Leu Ser
 20 25 30
 Arg Asn Val Ala Arg Lys Leu Leu Phe Ile Gln Phe Leu Ala Val Ile
 35 40 45
 Ala Ser Gly Leu Leu Phe Ser Leu Lys Asp Pro Phe Trp Gly Ile Ser

50 55 60
 Ala Ala Cys Gly Gly Leu Ala Val Val Leu Pro Asn Val Leu Phe Met
 65 70 75 80
 Ile Phe Ala Trp Arg His Gln Ala His Thr Pro Ala Lys Gly Arg Val
 85 90 95
 Ala Trp Ser Phe Ala Leu Gly Glu Val Cys Lys Val Leu Leu Thr Phe
 100 105 110
 Ala Leu Leu Val Met Ala Leu Ala Val Leu Lys Val Val Phe Met Pro
 115 120 125
 Leu Ile Ala Thr Trp Val Leu Val Leu Val Val Gln Val Leu Ala Pro
 130 135 140
 Ala Val Ile Asn Asn Lys Gly
 145 150

<210> 6044

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6044

Arg Ile Pro Phe Thr Cys Asn Asn Asp Tyr Ser Gly Ser Val Phe
 1 5 10 15
 Ala Glu Pro Val Phe Lys Val Ala Ile Met Leu Asn Ala Ile Leu Leu
 20 25 30
 Ala Gly Leu Leu Leu Ser Thr Gly His Ser Trp Ala Asn Ile Val Ile
 35 40 45
 Asn Gly Thr Arg Val Leu Tyr Pro Glu Asn Asn Lys Glu Val Ile Val
 50 55 60
 Gln Leu Met Asn Thr Gly Asp Ala Pro Ala Leu Val Gln Ser Trp Ile
 65 70 75 80
 Asp Asp Gly Asp Ile Asn Ser Thr Pro Glu Thr Ala Asn Val Pro Phe
 85 90 95
 Leu Leu Ser Pro Pro Val Ile Lys Val Asn Glu His Asn Gly Gln Gln
 100 105 110
 Leu Arg Ile Lys Lys Leu Pro Ser Ser Leu Pro Ala Asp Arg Glu Ser
 115 120 125
 Val Phe Phe Leu Asn Val Leu Asp Ile Pro Pro Arg Pro Glu Asn Leu
 130 135 140
 Gln Asn Gln Asn Thr Val Gln Leu Ala Ile Lys Ser Arg Ile Lys Leu
 145 150 155 160
 Phe Tyr Arg Pro Ala Ala Leu Lys Gly Thr Leu Asp Asp Ala Val Ala
 165 170 175
 Lys Leu Thr Leu Ala Ala Glu Gly Asp Arg Phe Arg Ile Thr Asn Asn
 180 185 190
 Ser Pro Phe His Ile Thr Val Ala Asn Ile Ser Leu Gly Lys Thr Lys
 195 200 205
 Leu Leu Gln Glu Ser Pro Met Val Ser Pro Phe Gly Gln Leu Thr Val
 210 215 220
 Ala Ala Lys Asn Thr Val Lys Arg Gly Gln Thr Phe Gln Leu Met Tyr
 225 230 235 240
 Val Asp Asp Leu Gly Ala Tyr Lys Thr Arg Thr Phe Thr Ser Gln
 245 250 255

<210> 6045

<211> 836

<212> PRT

<213> Enterobacter cloacae

<400> 6045

Ser Glu Arg Leu Thr Met Lys Met Lys Gln Asn Arg Leu Cys Leu Leu
 1 5 10 15

Ala Val Cys Thr Leu Leu Leu Ser His Lys Ser Gly Ala Val Ser Phe
 20 25 30
 Asp Pro Ser Leu Leu Ala Gly Ala Ser Gly Glu Ser Asp Leu Ser Arg
 35 40 45
 Phe Ser Glu Asn Asn Ala Met Pro Ala Gly Ser Gln Glu Met Asp Ile
 50 55 60
 Tyr Val Asn Gly Ser Trp Lys Gly Arg Tyr Thr Val Ile Tyr Gly Glu
 65 70 75 80
 Gln Arg Asp Asp Ile Arg Ile Ala Trp Lys Asp Ala Arg Ser Leu Gly
 85 90 95
 Ile Asn Thr Thr Ser Val Pro Ala Pro Ala Ile Ala His Gly Gln Val
 100 105 110
 Gln Leu Arg Asp Leu Val Gln Gly Gly Glu Val Lys Thr Asp Thr Ser
 115 120 125
 Thr Leu Ser Leu Ala Leu Thr Val Pro Gln Ala Ala Val Leu Arg Thr
 130 135 140
 Glu Glu Gly Tyr Ile Ala Arg Gln Phe Trp Asp Glu Gly Ile Pro Ala
 145 150 155 160
 Leu Met Leu Ser Trp Asn Thr Thr Trp Tyr Asn Thr Arg Ala Lys Gly
 165 170 175
 Ala Ala Lys Asp Thr Asn Asp Asp Phe Tyr Ala Gly Leu Asp Ser Gly
 180 185 190
 Ala Asn Leu Phe Gly Trp Gln Phe Arg Asp Ser Ser Ala Trp Arg Lys
 195 200 205
 Thr Ala Ser Gly Glu Ser Ser Trp Gln Asn Asn Thr Arg Tyr Leu Arg
 210 215 220
 Arg Pro Leu Ala Ser Leu Lys Ser Asn Leu Thr Leu Gly Asp Phe Tyr
 225 230 235 240
 Ile Pro Gly Asp Leu Phe Asp Ser Leu Arg Val Arg Gly Val Ser Leu
 245 250 255
 Ala Ser Asp Met Lys Met Arg Pro Asn Ser Gln Gln Gly Phe Ser Pro
 260 265 270
 Val Val His Gly Val Ala Arg Thr Asn Ala Leu Val Lys Val Ile Gln
 275 280 285
 Asn Gly Asn Val Ile Tyr Gln Glu Asn Val Pro Pro Gly Gln Phe Thr
 290 295 300
 Leu Asp Ser Ile Gln Pro Thr Gly Ser Ala Gly Asp Leu Leu Val Val
 305 310 315 320
 Val Arg Glu Ala Asp Gly Ser Gln Gln Ser Phe Thr Val Pro Phe Ser
 325 330 335
 Ala Val Pro Gly Met Leu Lys Glu Gly Val Ser Gln Tyr Ser Val Val
 340 345 350
 Ala Gly Lys Val His Gln Asn Thr Leu Asp Ala Glu Pro Ala Phe Met
 355 360 365
 Gln Ala Thr Leu Arg Tyr Gly Phe Asn Asn Leu Ile Thr Gly Tyr Thr
 370 375 380
 Gly Thr Ile Ile Ser Asp Asn Tyr Gln Ala Gly Leu Val Gly Thr Gly
 385 390 395 400
 Trp Asn Leu Pro Phe Gly Ala Val Ser Phe Asp Val Thr His Ala Lys
 405 410 415
 Thr Thr Leu Gln Asp Arg Thr Ser Ser Gly Gln Ser Tyr Arg Val Ser
 420 425 430
 Tyr Ser Lys Phe Ile Asp Thr Thr Ala Thr Asn Phe Thr Leu Ala Ala
 435 440 445
 Tyr Arg Tyr Ser Thr Lys Gly Tyr Tyr Ser Phe Ser Asp Ala Leu Tyr
 450 455 460
 Ser Arg Glu Gly Tyr Gln Arg Leu Arg Ala Gln Tyr Asp Asp Tyr Glu
 465 470 475 480
 Asp Arg Phe Gly Val Ala Pro Asp Met Ser Leu Ser Thr Trp Asp Ala
 485 490 495
 Met Arg Ala Ala Gln Pro Lys Asn Thr Phe Thr Leu Asn Leu Asn Gln

500 505 510
 Arg Leu Leu Asn Asn Trp Gly Thr Val Phe Val Ser Gly Thr Gln Arg
 515 520 525
 Asp Tyr Trp Asn Ser Gln Gln Thr Thr Arg Glu Tyr Gln Met Gly Tyr
 530 535 540
 Ser Asn Ala Ile Gly Arg Ala Ser Tyr Thr Leu Ser Ala Ser Arg Val
 545 550 555 560
 Arg Asn Arg Asp Ser Glu Glu Glu Thr Arg Leu Tyr Leu Ser Leu Ser
 565 570 575
 Leu Pro Phe Ser Leu Phe Asp Asn Asn Ala Trp Ile Thr Ser Ser Leu
 580 585 590
 Thr Ala Ser Asp Ser His Tyr Glu Gln Ser Asn Ile Ser Met Ser Gly
 595 600 605
 Asn Ala Leu Ala Ser Asn Arg Leu Ser Tyr Thr Leu Ser Gly Ser Asn
 610 615 620
 Ala Arg Gly Gly Lys Asn Ala Ala Ser Val Asn Ala Ala Tyr Arg Ser
 625 630 635 640
 Asn Phe Ala Thr Leu Gly Gly Ser Tyr Ser Glu Ser Ser Asp Tyr Arg
 645 650 655
 Gln Thr Gly Leu Ser Gly Arg Gly Ser Leu Val Ala Tyr Pro Trp His
 660 665 670
 Val Leu Ala Ser Asn Glu Thr Gly Thr Thr Met Thr Ile Val Asp Ala
 675 680 685
 Pro Lys Ala Glu Gly Leu Met Val Asn Gly Asp Glu Ser Ile Met Thr
 690 695 700
 Asn Arg Asp Gly Val Ala Leu Val His Asn Ala Thr Arg Ile Cys Lys
 705 710 715 720
 Asn Ala Ile Thr Leu Thr Glu Thr Glu Asn Ser Ala Gly Ala Glu Val
 725 730 735
 Ile Gly Asn Met Ala Asn Val Ala Pro Tyr Asp Gly Ala Val Ser Tyr
 740 745 750
 Ile Arg Phe Glu Thr Asp Lys Arg Gln Ser Trp Val Leu His Ala Thr
 755 760 765
 Arg Ala Asp Gly Lys Pro Leu Pro Phe Gly Thr Glu Val Leu Asp Glu
 770 775 780
 His Gly Glu Ser Val Gly Tyr Val Gly Gln Ala Ser Val Leu Tyr Ile
 785 790 795 800
 Arg Ala Glu Arg Pro Pro Arg Ala Leu Asn Val His Leu Arg Gly Gly
 805 810 815
 Lys Cys Glu Ile Ser Ser Pro Ala Trp Gly Leu Asn Ser Pro Ser Ser
 820 825 830
 Val Cys His
 835

<210> 6046

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 6046

Leu Arg Ile Ile Lys Met Leu Arg Ser Phe Met Phe Leu Leu Leu Thr
 1 5 10 15
 Ser Val Ser Gly Met Ser Tyr Ala Thr Cys Ser Gly Ser Ser Ile Val
 20 25 30
 Tyr Gly Thr Pro Ile Thr Ile Asp Leu Ser Asp Lys Leu Ser Pro Ala
 35 40 45
 Thr Pro Thr Trp Thr Gly Ser Phe Thr Thr Gln Tyr Ser Gly Ser Phe
 50 55 60
 Asn Cys Thr Thr Gly Asn Ser Glu Phe Ser Tyr Thr Pro Ile Leu Ser
 65 70 75 80
 Thr Asp Ser Lys Tyr Ala Thr Ile Leu Gly Phe Ser Asn Asn Lys Tyr

85 90 95
 Met Val Arg Ala Glu Ile Thr Asn Pro Ala Asn Lys Thr Leu Ser
 100 103 110
 Ala Ser Gly Ser His Thr Ala Ser Glu Leu Asn Thr Pro Phe Thr Val
 115 120 125
 Arg Phe Thr Leu Val Asn Gln Ser Gly Thr Thr Leu Thr Gly Asp Thr
 130 135 140
 Ala Asn Met Ser Asp Val Leu Phe Val Ser Asp Met Ser Gly Leu Ser
 145 150 155 160
 Ile Trp Glu Ile Ile Thr Trp Pro Ile Asn Gln Val Ile Lys Ile Ala
 165 170 175
 Gln Trp Leu Phe Ser Gly Phe Lys Trp Pro Tyr Asp Asn Arg Asp Met
 180 185 190
 Phe Gly Gln Pro Met Ile Ile Lys Tyr Ala Pro Lys Leu Thr Thr Cys
 195 200 205
 Ser Phe Asp Asn Ala Gly Leu Thr Val Ala Leu Pro Thr Leu Gly Ile
 210 215 220
 Pro Gln Leu Ser Ala Ser Ser Gln Pro Gly Leu Thr Pro Phe Ser Leu
 225 230 235 240
 Asn Met Ser Cys Gln Asn Val Gly Val Asn Gly Asn Ser Asp Arg Ala
 245 250 255
 Ile Glu Met Phe Leu Ser Ser Thr Gln Leu Leu Ser Thr Asp Ser Ser
 260 265 270
 Val Leu Ile Asp Ser Ser Ser Ala Ala Gln Gly Val Gly Leu Arg
 275 280 285
 Leu Ile Lys Arg Asp Ala Pro Gln Thr Pro Val Thr Phe Ser Asn Ser
 290 295 300
 Thr Thr Ser Arg Gly Asn Ala Thr Met Ile Phe Ser Val Ala Ala Gly
 305 310 315 320
 Ala Ala Leu Asp Glu His Phe Thr Leu Pro Met Ala Ala Tyr Tyr Tyr
 325 330 335
 Val Trp Ala Pro Ala Gln Val Ser Gln Gly Lys Ile Asn Thr Ser Ala
 340 345 350
 Thr Leu Asn Ile Ile Tyr Pro
 355 360

<210> 6047

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 6047

Asp Leu Ser Phe Asn Glu Leu Asn Asn Leu Leu Asn His Lys Gly Met
 1 5 10 15
 Glu Arg Gly Gly Pro His Arg Phe Thr Ser Leu Cys Lys Thr Leu Asn
 20 25 30
 Val Arg Arg Val Leu Leu Cys Pro Glu Leu His Tyr Gly Leu Leu Lys
 35 40 45
 Lys Val Leu Glu Met Lys Phe Glu Leu Thr Ile Ser Gln Gln Asp Glu
 50 55 60
 Leu Thr Glu Leu Lys Lys Glu Leu Pro Ala Leu Met Ala Asp Gly
 65 70 75 80
 Gln Lys Pro Ser Ile Tyr Ser Trp Leu Arg Arg Val Met Arg Ser Gly
 85 90 95
 Ser Arg Ala Arg Ser Ile Leu Ser Ala Arg Glu Trp Glu Val Leu His
 100 105 110
 Leu Ile Val Glu Gly Phe Ser Thr Thr Glu Ile Ala Arg His Arg Asn
 115 120 125
 Arg Ser Val Ser Thr Ile Ala Thr Gln Lys His Asn Ala Met Lys Lys
 130 135 140
 Leu Asn Leu Ser Asn His Ser Glu Leu Ile Lys Tyr Val Gln Thr Val

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<210> 6048
<211> 515
<212> PRT
<213> Enterobacter cloacae
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1	Asn	Cys	Val	Ala	Ile	Thr	Phe	Pro	Pro	Gly	Trp	Asn	Cys	Ala	Gly	Lys
2	Cys	Ser	Phe	Arg	Arg	Arg	Ala	Ser	Arg	Arg	Ser	Thr	Lys	Lys	Arg	Val
3	Val	Pro	Ala	Gly	Lys	Val	Phe	Ala	Asn	Pro	Arg	Asn	Ala	Ala	Ala	Gly
4	Ser	Leu	Arg	Gln	Leu	Asp	Pro	Arg	Ile	Thr	Ala	Lys	Arg	Pro	Leu	Thr
5	Phe	Phe	Cys	Tyr	Gly	Val	Gly	Ile	Leu	Glu	Gly	Gly	Asp	Leu	Pro	Asp
6	Thr	His	Leu	Gly	Arg	Leu	Met	Gln	Phe	Lys	Glu	Trp	Gly	Leu	Pro	Val
7	Ser	Asn	Arg	Val	Gln	Leu	Cys	Asp	Ser	Pro	Glu	Ala	Val	Leu	Ala	Phe
8	Tyr	His	Lys	Val	Glu	Glu	Asp	Arg	Pro	Thr	Leu	Gly	Phe	Asp	Ile	Asp
9	Gly	Val	Val	Ile	Lys	Val	Asn	Ser	Leu	Ala	Leu	Gln	Glu	Gln	Leu	Gly
10	Phe	Val	Ala	Arg	Ala	Pro	Arg	Trp	Ala	Val	Ala	Phe	Lys	Phe	Pro	Ala
11	Gln	Glu	Gln	Met	Thr	Phe	Val	Arg	Asp	Val	Glu	Phe	Gln	Val	Gly	Arg
12	Thr	Gly	Ala	Ile	Thr	Pro	Val	Ala	Arg	Leu	Glu	Pro	Val	Gln	Val	Ala
13	Gly	Val	Leu	Val	Ser	Asn	Ala	Thr	Leu	His	Asn	Ala	Asp	Glu	Ile	Ala
14	Arg	Leu	Gly	Leu	Arg	Ile	Gly	Asp	Lys	Val	Val	Ile	Arg	Ala	Gly	
15	Asp	Val	Ile	Pro	Gln	Val	Val	Asn	Val	Val	Glu	Ser	Glu	Arg	Pro	Ala
16	Asp	Thr	Arg	Ala	Ile	Glu	Phe	Pro	Ala	His	Cys	Pro	Val	Cys	Gly	Ser
17	Asp	Val	Glu	Arg	Val	Glu	Gly	Glu	Ala	Val	Thr	Arg	Cys	Thr	Gly	Gly
18	Leu	Ile	Cys	Gly	Ala	Gln	Arg	Lys	Glu	Ser	Leu	Lys	His	Phe	Val	Ser
19	Arg	Arg	Ala	Met	Asp	Val	Asp	Gly	Met	Gly	Asp	Lys	Ile	Ile	Asp	Gln
20	Leu	Val	Glu	Lys	Glu	Tyr	Val	His	Thr	Pro	Ala	Asp	Leu	Phe	Thr	Leu
21	Thr	Ala	Gly	Lys	Leu	Thr	Gly	Leu	Asp	Arg	Met	Gly	Pro	Lys	Ser	Ala
22	Gln	Asn	Ile	Val	Asn	Ala	Leu	Glu	Ala	Ala	Lys	Asn	Thr	Thr	Phe	Ala
23	Arg	Phe	Leu	Tyr	Ala	Leu	Gly	Ile	Arg	Glu	Val	Gly	Glu	Ala	Thr	Ala
24	Ala	Gly	Leu	Ala	Ala	Tyr	Phe	Gly	Thr	Leu	Asp	Ala	Leu	Glu	Lys	Ala
25	Thr	Ile	Asp	Glu	Leu	Gln	Lys	Val	Pro	Asp	Val	Gly	Ile	Val	Val	Ala
26	Thr	His	Val	Phe	Asn	Phe	Phe	Ala	Glu	Glu	Ser	Asn	Arg	Glu	Val	Ile

405 410 415
 Gly Lys Leu Leu Glu Gln Gly Ile His Trp Pro Ala Pro Val Val
 420 425 430
 Asn Ala Glu Glu Ile Asp Ser Pro Phe Ala Gly Lys Thr Val Val Leu
 435 440 445
 Thr Gly Ser Leu Ser Gln Leu Ser Arg Asp Asp Ala Lys Ala Arg Leu
 450 455 460
 Val Ala Leu Gly Ala Lys Val Ala Gly Ser Val Ser Lys Lys Thr Asp
 465 470 475 480
 Leu Val Ile Ala Gly Glu Ala Ala Gly Ser Lys Leu Ala Lys Ala Gln
 485 490 495
 Glu Leu Gly Ile Glu Ile Ile Asp Glu Ala Glu Met Met Arg Leu Leu
 500 505 510
 Gly Glu
 515

<210> 6049

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 6049

Trp Cys Asp Met Asp Ser Ile Glu Gln Gln Leu Thr Glu Leu Arg Thr
 1 5 10 15
 Thr Leu Arg His His Glu Tyr Leu Tyr His Val Met Asp Ala Pro Glu
 20 25 30
 Val Pro Asp Ala Glu Tyr Asp Arg Leu Met Arg Glu Leu Arg Glu Leu
 35 40 45
 Glu Ala Gln His Pro Glu Leu Ile Thr Pro Asp Ser Pro Thr Gln Arg
 50 55 60
 Val Gly Ala Glu Pro Leu Gly Ala Phe Ser Gln Val Arg His Glu Val
 65 70 75 80
 Pro Met Leu Ser Leu Asp Asn Val Phe Asp Glu Glu Ser Phe Leu Ala
 85 90 95
 Phe Asn Lys Arg Val Gln Asp Arg Leu Lys Ser Val Asp Asn Leu Ser
 100 105 110
 Trp Cys Cys Glu Leu Lys Leu Asp Gly Leu Ala Val Ser Ile Leu Tyr
 115 120 125
 Glu Asn Gly Val Met Val Arg Ala Ala Thr Arg Gly Asp Gly Thr Thr
 130 135 140
 Gly Glu Asp Ile Thr Thr Asn Val Arg Thr Ile Arg Ala Ile Pro Leu
 145 150 155 160
 Lys Leu Arg Gly Asp Asn Ile Pro Ala Arg Leu Glu Leu Arg Gly Glu
 165 170 175
 Val Phe Leu Pro Gln Ala Gly Phe Glu Lys Ile Asn Glu Glu Ala Arg
 180 185 190
 Arg Thr Gly Gly Glu Ser Val Cys
 195 200

<210> 6050

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 6050

Ile Lys Gln Met Asn Tyr Ser Leu Arg Gln Leu Arg Val Phe Val Thr
 1 5 10 15
 Val Ala Gln Ala Arg Ser Phe Ser Arg Ala Gly Glu Ile Ile Gly Leu
 20 25 30
 Ser Gln Ser Ala Val Ser His Ser Val Lys Glu Leu Glu Thr Gln Thr
 35 40 45

Gly Val Lys Leu Leu Asp Arg Thr Thr Arg Glu Val Val Leu Thr Glu
 50 55 60
 Ala Gly Gln Gln Leu Ala Met Arg Leu Glu Arg Leu Asp Glu Leu
 65 70 75 80
 Asn Ser Thr Leu Arg Asp Val Gly Arg Leu Gly Gln Gln Leu Ser Gly
 85 90 95
 Thr Val Arg Val Ala Ala Ser Gln Thr Ile Ser Ala His Leu Ile Pro
 100 105 110
 Gln Cys Ile Ala Glu Ser Asn His Arg Tyr Pro Asp Ile Asp Phe Val
 115 120 125
 Leu His Asp Arg Pro Gln Gln Trp Val Leu Glu Ser Ile Arg Gln Gly
 130 135 140
 Asp Val Asp Phe Gly Ile Val Ile Asp Pro Gly Ala Val Ser Asp Leu
 145 150 155 160
 Glu Cys Glu Val Val Leu Ser Glu Pro Phe Leu Leu Cys Arg Asp
 165 170 175
 Asp Asp Pro Leu Ala Ser Leu Pro Gln Val Ala Trp Gln Ala Leu Gln
 180 185 190
 Gly Ala Asn Leu Val Leu Gln Asp Tyr Ala Ser Gly Ser Arg Pro Leu
 195 200 205
 Ile Asp Ala Ala Leu Thr Ala Gln Gly Val Lys Ala Thr Ile Val Gln
 210 215 220
 Glu Ile Gly His Pro Ala Thr Leu Phe Pro Met Val Glu Ala Gly Ile
 225 230 235 240
 Gly Ile Ser Val Leu Pro Ala Leu Ala Leu Pro Leu Pro Gln Gly Ser
 245 250 255
 Arg Leu Thr Val Lys Arg Phe Val Pro Cys Val Glu Arg Gln Leu Met
 260 265 270
 Leu Val Arg Arg Lys Asn Arg Ser Leu Ser Gly Ala Ala His Ala Cys
 275 280 285
 Trp Asp Val Val Arg Met Gln Ala Glu Arg Leu Met Glu Ala Arg Thr
 290 295 300
 Arg Asp Pro Leu Phe Asn Glu Thr Asn Asn Gln Thr
 305 310 315

<210> 6051

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 6051

Arg His Leu Phe Ser Gly Val Ile Met Lys Leu Phe Arg Ile Leu Asp
 1 5 10 15
 Pro Phe Thr Leu Thr Leu Ile Gly Val Val Leu Leu Ala Ser Phe Phe
 20 25 30
 Pro Ala Arg Gly Ser Phe Val Pro Val Ile Glu Gly Leu Thr Thr Ala
 35 40 45
 Ala Ile Ala Leu Leu Phe Phe Met His Gly Ala Lys Leu Ser Arg Glu
 50 55 60
 Ala Ile Ile Ala Gly Gly Ser His Trp Arg Leu His Leu Trp Val Met
 65 70 75 80
 Cys Ser Thr Phe Ile Leu Phe Pro Val Leu Gly Val Leu Phe Ala Trp
 85 90 95
 Trp Ala Pro Val Asn Val Asp Pro Ala Leu Tyr Thr Gly Phe Leu Tyr
 100 105 110
 Leu Cys Ile Leu Pro Ala Thr Val Gln Ser Ala Ile Ala Phe Thr Ser
 115 120 125
 Leu Ala Gly Gly Asn Val Ala Ala Val Cys Ser Ala Ser Ala Ser
 130 135 140
 Ser Leu Leu Gly Ile Phe Val Ser Pro Leu Leu Val Gly Leu Leu Met
 145 150 155 160

Asn Met His Gly Ala Glu Gly Asn Leu Glu Gln Val Gly Lys Ile Cys
 165 170 175
 Leu Gln Leu Leu Leu Pro Phe Val Leu Gly His Leu Ser Arg Pro Trp
 180 185 190
 Ile Gly Glu Phe Val Ala Lys His Lys Lys Trp Ile Gly Lys Thr Asp
 195 200 205
 Gln Ser Ser Ile Leu Leu Val Val Tyr Thr Ala Phe Ser Glu Ala Val
 210 215 220
 Val Asn Gly Ile Trp His Arg Val Gly Ala Gly Ser Leu Leu Phe Ile
 225 230 235 240
 Val Val Val Ser Ile Val Leu Leu Ala Ile Val Ile Ala Val Asn Val
 245 250 255
 Phe Val Ala Arg Lys Cys Gly Phe Asn Lys Ala Asp Glu Ile Thr Ile
 260 265 270
 Val Phe Cys Gly Ser Lys Lys Ser Leu Ala Asn Gly Ile Pro Met Ala
 275 280 285
 Asn Ile Leu Phe Pro Thr Ser Val Ile Gly Met Met Val Leu Pro Leu
 290 295 300
 Met Ile Phe His Gln Ile Gln Leu Met Val Cys Ala Val Leu Ala Arg
 305 310 315 320
 Arg Tyr Lys Ala Gln Thr Glu Lys Leu Ala Gln Glu Glu Thr His Ala
 325 330 335
 Ala Lys Val
 340

<210> 6052

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 6052

Leu Ser Ser Gly Ile Ser Gly Ile Thr Thr Ser Met Leu Thr Arg Tyr
 1 5 10 15
 Phe Ser Ser Asn Arg Lys Ile Leu Phe Ile Ser Phe Leu Thr Gly Leu
 20 25 30
 Phe Thr Ala Leu Leu Leu Gly Ala Leu Gln Phe Tyr Trp Ser Tyr His
 35 40 45
 Lys Arg Asp Val Arg Phe Asp Thr Leu Ile Thr Asp Leu Ser Val Tyr
 50 55 60
 Met Glu Ser Tyr Phe Asp Glu Leu Lys Met Ser Ile Asp Thr Leu Gln
 65 70 75 80
 Pro Leu Thr Leu Asn Ser Cys Glu Glu Val Ser Ala Ala Leu Thr Ser
 85 90 95
 Arg Ala Ala Phe Ser Ile Asn Val Arg Ala Phe Leu Leu Val Arg Asp
 100 105 110
 Lys Gln Ala Phe Cys Ser Ser Ala Thr Gly Pro Met Asn Thr Pro Met
 115 120 125
 Glu Lys Leu Ile Pro Gln Leu His Ile Ser Lys Pro Val Asp Ile Ala
 130 135 140
 Leu Leu Pro Gly Thr Pro Met Leu Pro Asp Lys Pro Ala Ile Ala Ile
 145 150 155 160
 Trp Tyr Arg Asn Pro Leu Val Lys Asp Gly Gly Val Phe Thr Ser Val
 165 170 175
 Asn Leu Asn Leu Ser Pro Tyr Leu Leu Tyr Thr Ser Arg Gln Asp Glu
 180 185 190
 Phe Ala Gly Ile Ser Ile Val Ile Gly Asp Ser Ala Leu Ser Thr Gln
 195 200 205
 Ser Gly Met Leu Ile Gln Ala Arg Asp Leu Pro Asp Val Pro Ala Arg
 210 215 220
 Ser Ala Thr Leu Lys Asn Ile Pro Leu Thr Val Asn Val Tyr Ala Gln
 225 230 235 240

Ala Trp Thr Thr Asp Glu Leu Leu Tyr Ala Val Phe Phe Gly Leu Val
 245 250 255
 Cys Gly Ile Ala Ala Gly Leu Leu Asn Phe Tyr Ile Leu Thr Ile Arg
 260 265 270
 Leu Asn Pro Gly Lys Glu Ile Leu Thr Ala Ile Lys His Asp Gln Phe
 275 280 285
 Tyr Val Val Tyr Gln Pro Val Val Asp Ala Gln Ser Leu Arg Met Thr
 290 295 300
 Gly Leu Glu Val Leu Met Arg Trp Lys His Pro Val Met Gly Glu Ile
 305 310 315 320
 Pro Pro Asp Ala Phe Ile Asn Phe Ala Glu Ala Gln Lys Leu Ile Val
 325 330 335
 Pro Leu Thr Leu His Leu Phe Asp Leu Ile Ile Arg Asp Ala Pro Val
 340 345 350
 Leu Gln Thr Val Leu Pro Pro Gly Ala Lys Phe Gly Ile Asn Ile Ala
 355 360 365
 Pro Gly His Leu His Ala Glu Ser Phe Lys Glu Asp Met Arg Ala Phe
 370 375 380
 Leu Ala Ala Leu Pro Pro Asp His Phe Gln Ile Val Leu Glu Ile Thr
 385 390 395 400
 Glu Arg Asp Met Ile Asn His Arg Glu Ala Asn Gln Leu Phe Glu Trp
 405 410 415
 Val His Asn Glu Gly Phe Glu Ile Thr Ile Asp Asp Phe Gly Thr Gly
 420 425 430
 His Ser Ala Leu Ile Tyr Leu Glu Arg Phe Thr Met Asp Tyr Leu Lys
 435 440 445
 Ile Asp Arg Gly Phe Val Asn Ala Ile Gly Thr Glu Thr Val Thr Ser
 450 455 460
 Pro Val Leu Asp Ala Val Leu Thr Leu Ala Glu Arg Leu Asn Met Ile
 465 470 475 480
 Thr Val Ala Glu Gly Val Glu Thr Pro Glu Gln Ala Ala Trp Leu Arg
 485 490 495
 Glu His Gly Val Asn Tyr Leu Gln Gly Tyr Trp Ile Gly Arg Pro Met
 500 505 510
 Pro Leu Glu Gln Phe Arg Thr Trp Gln Pro Asp Ile Thr Leu Gly Glu
 515 520 525

<210> 6053

<211> 627

<212> PRT

<213> *Enterobacter cloacae*

<400> 6053

Phe His Asn His Gly Ala Val Pro Tyr Tyr Ser Val Gln Pro Ser Leu
 1 5 10 15
 Ser Val Asn Lys Gly Ile Arg Arg Thr Met Ile Met Arg Val Val Leu
 20 25 30
 Thr Leu Leu Ala Leu Val Ser Leu Ser Ser Gln Ala Gln Thr Ile Lys
 35 40 45
 Glu Ser Thr Ala Phe Ala Val Ile Gly Glu Pro Lys Tyr Ala Val Asn
 50 55 60
 Phe Asn His Tyr Asp Tyr Val Asn Pro Ala Ala Pro Lys Gly Gly Asn
 65 70 75 80
 Val Thr Leu Ser Ala Thr Gly Thr Phe Asp Asn Phe Asn Arg Phe Ala
 85 90 95
 Leu Arg Gly Val Ala Ala Ala Arg Thr Glu Ser Leu Tyr Asp Thr Leu
 100 105 110
 Phe Val Thr Ser Asp Asp Glu Pro Gly Ser Tyr Tyr Pro Leu Val Ala
 115 120 125

Glu Asn Val Arg Tyr Ala Glu Asp Phe Ser Trp Val Glu Ile Ala Ile
 130 135 140
 Asn Pro Arg Ala Arg Phe His Asp Gly Thr Pro Val Ser Ala Arg Asp
 145 150 155 160
 Val Ala Phe Thr Phe His Lys Phe Met Thr Glu Gly Val Pro Gln Phe
 165 170 175
 Arg Leu Val Tyr Lys Gly Thr Thr Val Lys Ala Ile Ala Pro Leu Thr
 180 185 190
 Val Arg Ile Glu Leu Pro Glu Ala Asn Lys Glu Asn Met Leu Ser Leu
 195 200 205
 Phe Ser Leu Pro Val Met Pro Glu Ser Phe Trp Lys Asn His Lys Leu
 210 215 220
 Ser Asp Pro Leu Ser Thr Pro Pro Leu Ala Gly Gly Pro Tyr Arg Ile
 225 230 235 240
 Thr Asp Trp Arg Met Gly Gln Tyr Val Ile Tyr Ser Arg Val Lys Asp
 245 250 255
 Tyr Trp Ala Ala Thr Leu Pro Val Asn Arg Gly Arg Trp Asn Phe Asp
 260 265 270
 Thr Ile Arg Tyr Asp Tyr Tyr Leu Asp Asp Asn Val Ala Phe Glu Ala
 275 280 285
 Phe Lys Ala Gly Ala Phe Asp Leu Arg Val Glu Asn Ser Ala Lys Asn
 290 295 300
 Trp Ala Thr Arg Tyr Ile Gly Lys Asn Phe Ala Lys Gly Tyr Ile Val
 305 310 315 320
 Lys Asp Glu His Lys Asn Glu Ser Ala Gln Asp Thr Arg Trp Leu Ala
 325 330 335
 Phe Asn Ile Gln Arg Pro Val Phe Ser Asp Arg Arg Val Arg Glu Ala
 340 345 350
 Ile Thr Leu Ala Phe Asp Phe Glu Trp Met Asn Lys Ala Leu Phe Tyr
 355 360 365
 Gly Ala Tyr Ser Arg Ala Asn Ser Tyr Phe Gln Asn Thr Glu Tyr Ala
 370 375 380
 Ala Arg Asp Tyr Pro His Ala Asp Glu Leu Val Leu Leu Ala Pro Leu
 385 390 395 400
 Lys Ala Glu Leu Pro Pro Glu Val Phe Thr Arg Ile Phe Glu Pro Pro
 405 410 415
 Lys Ser Asp Gly Asn Gly Phe Asp Arg Asp Asn Leu Leu Lys Ala Ser
 420 425 430
 Ser Leu Leu Asp Asp Ala Gly Trp Val Leu Lys Asn Arg Gln Arg Val
 435 440 445
 Asn Ala Gln Thr Gly Lys Pro Leu Ser Phe Glu Leu Leu Ile Ala Ser
 450 455 460
 Gly Ala Asn Asp Gln Trp Val Leu Pro Phe Lys Lys Asn Leu Ala Arg
 465 470 475 480
 Leu Gly Val Thr Met Asn Ile Arg Gln Val Asp Met Ala Gln Leu Thr
 485 490 495
 Asn Arg Lys Arg Ser Arg Asp Tyr Asp Met Met Gln Thr Leu Trp Ala
 500 505 510
 Ala Gln Pro Trp Pro Ser Ser Asp Leu Gln Ile Ser Trp Ala Ser Gly
 515 520 525
 Tyr Ile Asp Ser Ser Tyr Asn Ala Pro Gly Val Lys Ser Pro Val Ile
 530 535 540
 Asp Ala Leu Ile Ala Lys Ile Val Ala Ala Gln Gly Asp Lys Asn Lys
 545 550 555 560
 Leu Leu Pro Leu Gly Arg Ala Leu Asp Arg Val Leu Thr Trp Asn Tyr
 565 570 575
 Tyr Met Leu Pro Met Trp Tyr Met Gly Glu Asp Arg Val Ala Arg Trp
 580 585 590
 Asp Lys Phe Ser Leu Pro Ala Val Arg Pro Val Tyr Trp Leu Gly Phe
 595 600 605
 Asp Thr Trp Trp Tyr Asp Val Asn Lys Ala Val Lys Leu Pro Ala Glu

610
Arg Arg
625

615

620

<210> 6054
<211> 278
<212> PRT
<213> Enterobacter cloacae

<400> 6054
Gly Val Thr Met Gly Ala Tyr Leu Ile Arg Arg Leu Leu Leu Val Ile
1 5 10 15
Pro Thr Leu Trp Ala Ile Ile Thr Ile Asn Phe Phe Ile Val Gln Ile
20 25 30
Ala Pro Gly Gly Pro Val Asp Gln Ala Ile Ala Ala Ile Glu Phe Gly
35 40 45
His Ala Gly Gly Met Pro Gly Gly Gly Glu Gly Met Gly Ala Ser
50 55 60
His Ala Arg Thr Gly Val Gly Asn Ile Ser Glu Ser His Tyr Arg Gly
65 70 75 80
Gly Arg Gly Leu Asp Pro Glu Val Ile Ala Glu Ile Thr His Arg Tyr
85 90 95
Gly Phe Asp Lys Pro Leu His Glu Arg Tyr Cys Arg Met Leu Trp Asp
100 105 110
Tyr Val Arg Phe Asp Phe Gly Asp Ser Leu Phe Arg Ser Ala Ser Val
115 120 125
Leu Thr Leu Ile Lys Gln Ser Leu Pro Val Ser Ile Thr Leu Gly Leu
130 135 140
Trp Gly Thr Leu Ile Ile Tyr Leu Val Ser Ile Pro Leu Gly Ile Arg
145 150 155 160
Lys Ala Val Tyr Asn Gly Ser Arg Phe Asp Ile Trp Ser Ser Thr Phe
165 170 175
Ile Ile Ile Gly Tyr Ala Ile Pro Ala Phe Leu Phe Ala Val Leu Leu
180 185 190
Ile Val Phe Phe Ala Gly Gly Ser Tyr Phe Asp Leu Phe Pro Leu Arg
195 200 205
Gly Leu Val Ser Ala Asp Phe Ser Thr Leu Pro Trp Tyr Gln Lys Ile
210 215 220
Thr Asp Tyr Phe Trp His Ile Thr Leu Pro Val Leu Ala Thr Val Ile
225 230 235 240
Gly Gly Phe Ala Ala Leu Thr Met Leu Thr Lys Asn Ala Phe Leu Asp
245 250 255
Glu Ile Arg Lys Gln Tyr Val Val Thr Ala Arg Ala Lys Gly Val Gly
260 265 270
Glu Lys Gln Ile Gly
275

<210> 6055
<211> 98
<212> PRT
<213> Enterobacter cloacae

<400> 6055
His Ile Cys Gly Ser Ala Pro Leu Ser Lys Arg Arg Gly Pro Ser Gly
1 5 10 15
Leu Asn Leu Pro Arg Ser Thr Tyr Glu Gln Gln Glu Met Gly Lys Ser
20 25 30
Ile Ser Arg Thr Lys Leu Arg Thr Gly Asp Leu Val Leu Phe Arg Ala
35 40 45
Gly Ser Thr Gly Arg His Val Gly Ile Tyr Ile Gly Asn Asp Gln Phe
50 55 60

Val His Ala Ser Thr Ser Ser Gly Val Thr Ile Ser Ser Met Asn Glu
 65 70 75 80
 Pro Tyr Trp Lys Lys Arg Tyr Asn Glu Ala Arg Arg Val Leu Ser Arg
 85 90 95
 Ser

<210> 6056

<211> 504

<212> PRT

<213> Enterobacter cloacae

<400> 6056

Pro Gly Arg Thr Ser Thr Ile Met Glu Leu Asn Val Pro Gln Val Ala
 1 5 10 15
 Ala Cys Ile Ile Asn Ser Gln Asp Trp Asp Val Met Lys Lys Gly Leu
 20 25 30
 Ser Val Trp Pro Ala Leu Ser Thr Val Ala Tyr Gly Val Phe Ser Ala
 35 40 45
 Leu Phe Tyr Ala Phe Gly Val His Ala Asp Asp Asp Ile Gln Phe Asp
 50 55 60
 Ser Asn Phe Leu Arg Ile Ser His Pro Glu Asn Val Asp Leu Ser Ala
 65 70 75 80
 Tyr Met Asn Asn Ala Leu Pro Ala Gly Arg Tyr Arg Ala Asp Ile Tyr
 85 90 95
 Leu Asn Asp Lys Leu Val Met Ile Asp Asp Ile Arg Ile Ser Gly Lys
 100 105 110
 Asp Ala Arg Ser Gln Arg Ile Leu Leu Ser Gln Ala Thr Val Thr Gly
 115 120 125
 Leu Gln Leu Lys Lys Ser Arg Leu Cys Ala Thr Asn Ala Gly Gln Trp
 130 135 140
 Cys Asp Leu Gln Ala Val Leu Pro Glu Ser Arg Leu Lys Phe Asn Gly
 145 150 155 160
 Gly Arg Gln Arg Leu Asp Val Ser Ile Pro Gln Ala Met Leu Gln His
 165 170 175
 Val Ala Arg Gly Ser Val Asn Pro Val Leu Trp Asp Ala Gly Ile Pro
 180 185 190
 Ala Leu Met Leu Gly Tyr Asn Val Asn Gly Tyr Arg Ser Glu Asn Ser
 195 200 205
 Ser Gly Glu Tyr Asn Asn Leu Tyr Ala Ala Leu Asn Gly Gly Leu Asn
 210 215 220
 Ile Gly Ala Trp Tyr Phe Arg His Asn Gly Thr Leu Ser Trp Gln Gln
 225 230 235 240
 Gln Asn Gly Thr Gln Gln Lys Lys Tyr Thr Val Leu Asn Ser Tyr Val
 245 250 255
 Gln His Pro Leu Ala Gly Ile Glu Gly Asn Leu Ile Leu Gly Glu Ser
 260 265 270
 Asn Thr Ser Gly Gln Leu Phe Asp Ser Val Ser Phe Thr Gly Ala Ser
 275 280 285
 Val Ala Ser Asp Asp Arg Met Leu Pro Ala Ser Arg Arg Gly Tyr Ala
 290 295 300
 Pro Glu Ile Arg Gly Val Ala Gln Thr Asn Ala Lys Val Thr Ile Arg
 305 310 315 320
 Gln Asn Gly Lys Val Ile Tyr Glu Thr Thr Val Ser Pro Gly Ala Phe
 325 330 335
 Val Ile Asn Asp Leu Tyr Pro Ser Gly Tyr Gly Gly Asp Leu Asn Val
 340 345 350
 Thr Val Arg Glu Ala Asp Gly Ser Gln His Phe Phe Asp Val Pro Tyr
 355 360 365
 Ala Ser Val Ala Gln Leu Leu Arg Pro Gly Ala Ser Arg Tyr Ser Ala
 370 375 380

Thr Ala Gly Arg Leu Arg Gly Asp Tyr Leu Ser Glu Arg Pro Ala Phe
 385 390 395 400
 Ser Glu Val Thr Tyr Gln Arg Gly Leu Thr Asn Ser Leu Thr Gly Ser
 405 410 415
 Gly Gly Ile Gln Ala Thr Ser Phe Tyr Gln Ala Met His Ala Gly Leu
 420 425 430
 Ala Val Gly Thr Ala Val Gly Thr Val Ser Leu Asp Thr Thr Trp Ser
 435 440 445
 Gln Thr Gln Val Arg Glu Lys Thr Thr Arg Gly Arg Lys His Gln Val
 450 455 460
 Glu Leu Gln Gln Ile Tyr Ser Arg Lys Pro Asp Ala Val Phe Thr Gly
 465 470 475 480
 His Leu Ala Ile Phe Asp Gly Glu Leu Ser Phe Ser Asp Gly Cys His
 485 490 495
 Pro Val Thr Ser Ala Ala Ala
 500

<210> 6057

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 6057

Leu Ile Arg Arg Asn Asn Val Arg Lys Leu Met Lys Val Leu Val Cys
 1 5 10 15
 Val Phe Thr Asp Asn Glu Phe Phe Phe Ser Ala Met Met Glu Leu Leu
 20 25 30
 Ser Ser His Thr Leu Leu Ala Glu Lys Tyr Thr Leu Cys Lys Ile Arg
 35 40 45
 Ser Asp Glu Ile Gly Ala Trp Met His Thr Ala Asp Asn Asn Met Met
 50 55 60
 Ile Met Ala Gly Pro Asp Met Glu Ser Leu Val Arg Phe Phe Cys Leu
 65 70 75 80
 Glu Lys Arg Trp Asp Tyr Leu Thr Thr Arg Phe Ser Ala Ser Glu Met
 85 90 95
 Gln Asp Phe Leu Ala Gln Lys Ile Asn Arg Gln His Glu Val Lys Lys
 100 105 110
 Asn Leu Ile Arg Thr Arg Thr His Leu Lys Leu Ser Lys Gln Glu Leu
 115 120 125
 Asn Val Leu Ser Trp Phe Met His Gly Leu Ser Pro Tyr Ser Met Ser
 130 135 140
 Arg Tyr Tyr Gly Leu Ser Val Lys Thr Ile Ser Thr Phe Lys Arg Arg
 145 150 155 160
 Leu Met Asp Lys Leu Tyr Ile Lys Ser Asp Ala Glu Leu Phe Arg Val
 165 170 175
 Gly Trp Thr Tyr Lys Met Tyr Gln Asn Ser Gly His Leu Arg Gly Arg
 180 185 190
 Asp Glu Asn Phe Arg Met Asp
 195 200

<210> 6058

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 6058

Glu Lys Lys Gln Pro Gly Gly Glu Ser Ile Arg Leu Ser Tyr Ser Lys
 1 5 10 15
 Tyr Ile Pro Ala Ser Arg Thr Gln Phe Ser Leu Ala Thr Trp Arg Tyr
 20 25 30
 Ser Thr Gly Asn Tyr Leu Ser Leu Met Asp Ala Thr Leu Leu His Gln

35 40 45
 Gln Arg Pro Asp Glu Thr Ala Asp Gly His Thr Gly Arg Thr Arg Asn
 50 55 60
 Arg Val Thr Leu Thr Leu Asn Gln Gly Leu Pro Asp Lys Trp Gly Gln
 65 70 75 80
 Leu Tyr Val Thr Gly Ile Leu Gln Asp Tyr Trp Gly Arg Lys Gly Tyr
 85 90 95
 Asp Gln Gln Tyr Gln Ala Gly Tyr Thr Leu Thr Thr Gly Arg Val Asn
 100 105 110
 Trp Ser Leu Gly Val Asn Arg Ser Arg Ser Ser Gly Gly Glu Phe Gln
 115 120 125
 Asn Ile Trp Thr Leu Ser Phe Asn Met Pro Leu Gly Ser Ala Ser Thr
 130 135 140
 Pro Leu Leu Thr Gly Gln Val Ser Arg Asp Gly Gln Gly His Phe Ser
 145 150 155 160
 Glu Gln Val Ala Leu Ser Gly Ser Ala Gly Glu Arg Gln Gln Phe Ser
 165 170 175
 Trp Asn Ala Gly Ala Ser His Gln Tyr His Ser Gly Asp Ser Gly Gln
 180 185 190
 Ile Gly Gly Ser Trp Thr Gly Pro Val Ser Thr Leu Thr Ala Asn Tyr
 195 200 205
 Ala Gln Gly Lys Ala Trp Lys Ser Gly Ser Val Gly Val Ser Gly Thr
 210 215 220
 Ala Val Ala His Ser Asp Gly Val Thr Phe Ser Pro Trp Thr Gly Asn
 225 230 235 240
 Thr Phe Ala Leu Val Glu Ala Lys Gly Ala Glu Gly Ala Glu Ile Pro
 245 250 255
 Gly Tyr Ala Gly Thr Arg Val Asp Gly Ser Gly Tyr Ala Leu Val Pro
 260 265 270
 Asn Leu Met Pro Tyr Gln Lys Asn Ala Ile Ser Ile Asp Thr Thr Ser
 275 280 285
 Val Glu Asp Asp Leu Asp Leu Asp Ser Thr Ser Gln Gln Val Ile Pro
 290 295 300
 Tyr Ala Gly Ala Val Val Lys Val Lys Tyr Arg Ala Thr Ala Gly Val
 305 310 315 320
 Pro Val Leu Ile Lys Val Thr Arg Ser Asn Gly Glu Gly Val Pro Phe
 325 330 335
 Ser Ala Arg Ala Thr Asp Ala Asn Lys Asn Ile Val Gly Tyr Val Gly
 340 345 350
 Gln Gly Ser Arg Leu Tyr Ala Arg Leu Ala Gln Gln Asn Gly Val Val
 355 360 365
 Glu Leu Arg Trp Ala Glu Gly Glu Gly Ala Arg Cys Lys Met Lys Tyr
 370 375 380
 Ser Leu Pro Ser Thr Ala Gly Lys Lys Leu Ile Phe Asn Ala Ile
 385 390 395 400
 Cys Asn

<210> 6059

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 6059

Glu Gly Glu Met Lys Ile Ser Gly Trp Ile Ser Val Ala Thr Phe Phe
 1 5 10 15
 Cys Leu Leu Ile Phe Ser Asn Ala Ala Met Ala Glu Thr Cys Ser Leu
 20 25 30
 Asp Ser Ala Ser Val Phe Lys Thr Ala Ser Asn Val Ser Met Pro Leu
 35 40 45
 Asn Ile Ser Ser Ile Ala Val Ser Asn Asp Ile Pro Asp Gly Thr Ile

50 55 60
 Ile Tyr Gln Gln Lys Tyr Ile Pro Gly Tyr Ser Ser Ile Ser Val Asn
 65 70 75 80
 Cys Asp Glu Ser Arg Ser Trp Tyr Tyr Val Met Ser Leu Thr Asn Thr
 85 90 95
 Pro Met Pro Leu Ser Ser Trp Thr Gly Thr Ile Ile Ser His Glu Ser
 100 105 110
 Trp Val Ala Glu Tyr Ser Trp Asp Gly Tyr Ile Tyr Glu Thr Gly Ile
 115 120 125
 Pro Gly Ile Gly Ile Thr Ile Ser Met Met Ser Val Arg Arg Pro Ala
 130 135 140
 Pro Gly Ile Val Gly Thr Asn Cys Phe Ala Ser Lys Ser Cys Thr Asp
 145 150 155 160
 Thr Gly Met Lys Ala Arg Ala Ile Ile Ala Leu Val Lys Thr Gly Pro
 165 170 175
 Ile Ser Ala Gly Val Ile Asn Ala Gly Asn Phe Pro Thr Met Lys Val
 180 185 190
 Ala Leu Gly Arg Glu Ala Thr Asn Ile Thr Leu Tyr Thr Leu Ser Phe
 195 200 205
 Thr Gly Ser Leu Asn Val Thr Leu Pro Thr Cys Thr Thr Pro Asp Phe
 210 215 220
 Asn Val Ser Leu Gly Lys Trp Thr Thr Glu His Phe Thr Gly Lys Gly
 225 230 235 240
 Ser Ser Thr Pro Trp Val Ala Ala Asn Ile Val Leu Ser Asn Cys Gly
 245 250 255
 Asp Phe Ile Gly Ser Asn Val Ser Gly Asp Met Ser Asp Gly Asn Tyr
 260 265 270
 Trp Ser Asp Asn Gly Ser Ser Phe Ser Ser Thr Met Gln Trp Asn Thr
 275 280 285
 Trp Ser Ile Thr Leu Ser Pro Val Ser Ser Val Leu Asp Ser Ala Ser
 290 295 300
 Gly Ile Met Ser Val Asp Thr Ser Val Pro Ser Ala Ala Thr Gly Ile
 305 310 315 320
 Gly Ile Gln Ile Ser Ser Gly Asp Thr Thr Ser Ala Asp Ser His Ile
 325 330 335
 Ile Asp Phe Gly Asn Ala Leu Thr Gly Thr Phe Asn Ser Asp Gly Ser
 340 345 350
 Ser Ser Val Thr Ile Pro Leu Ser Ala Arg Tyr Ile Gln Thr Glu Asp
 355 360 365
 Ser Val Thr Ala Gly Met Ala Asn Gly Lys Leu Val Tyr Thr Ile Ser
 370 375 380
 Tyr Tyr
 385

<210> 6060

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 6060

Gln Val Met Ile Lys Lys Lys Gly Leu Gly Phe Asn Ala Ile Thr Ala
 1 5 10 15
 Leu Ile Met Leu Thr Thr Ser Asn Cys Val Ile Ala Glu Glu Tyr Gln
 20 25 30
 Leu Pro Ala Thr Ile Asn Asn Pro Val Val Met Pro Val Gly Ala Asp
 35 40 45
 Gly Phe Gln Asn Gly Ala Ala Lys Ala Ile Ile Pro Gly Gln Ala Gly
 50 55 60
 Ser Glu Gln Ser Gly Ala Gln Thr Asn Leu Ser Glu Ala Gly Asn Ala
 65 70 75 80
 Gln Gly Gln Lys Pro Thr Thr Asp Leu Pro Thr Val Gln Leu Ser Pro

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      85                      90                      95
Ala Ser Asn Ala Ser Pro Ala Val Ser Ala Ile Thr Gly Ala Leu Ser
      100                      105                      110
Asn Asn Pro Ser Leu Pro Gly Phe Asp Ala Gln Thr Arg Ser Gly Ala
      115                      120                      125
Ile Asp Ser Tyr Gly Arg Pro Thr Gly Thr Ser Ser Gln Gln Asn Ala
      130                      135                      140
Thr Asn Ala Thr Ala Thr Ser Lys Ala Asp Glu Leu Tyr Val Glu Ala
      145                      150                      155
Arg Asn Arg Tyr Lys Glu Val Gln Arg Val Asn Val Pro Pro Gly Gly
      165                      170                      175
Asn Val Val Leu Pro Val Ser Arg Gly Leu Gln Asn Arg Ile Ser Thr
      180                      185                      190
Ser Phe Lys Asn Ala Ser Val Ser Thr Ser Thr Pro Ala Glu Glu Ala
      195                      200                      205
Ser Ile Phe Val Asn Gly Gly Asp Val Phe Ile Ser Thr Asn Thr Asp
      210                      215                      220
Lys Pro Ile Gly Ile Met Leu Ser Glu Asp Gln Val Pro Glu Ser Thr
      225                      230                      235
Tyr Asn Leu Thr Leu Val Pro Leu Asp Val Pro Gly Ala Met Ile Ser
      245                      250                      255
Val Thr Thr Ser Leu Ser Pro Ser Met Gln Ala Lys Arg Glu Thr Ser
      260                      265                      270
Leu Asp Lys Gln Asn Tyr Glu Glu Met Leu Ala Arg Ser Gln Ser Glu
      275                      280                      285
Glu Leu Ala Pro Thr Asp Pro Lys Gln Asp Asp His Lys Gln Arg Ile
      290                      295                      300
Ile Asp Leu Leu Thr Pro Val Ala Leu Gly Glu Val Pro Ser Gly Phe
      305                      310                      315
Ser Leu Gln Gln Asp Arg Leu Ser Arg Ile Pro Ala Pro Glu Gln Ser
      325                      330                      335
Pro Cys Asn Phe Asn Met Tyr Ala Lys Leu Gly Gln Arg Leu Val Gly
      340                      345                      350
Ser Arg Glu Leu Ile Asp Val Ile Leu Val Lys Asn Asp Lys Pro Tyr
      355                      360                      365
Gly Gln Ile Val Ala Asp Gln Gln Cys Met Ala Glu Gly Val Ile Ala
      370                      375                      380
Ser Ala Leu Phe Asp Lys Ala Tyr Leu Gln Pro Gly Glu Glu Thr Glu
      385                      390                      395
Leu Tyr Ile Val Arg
      405

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<210> 6061

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 6061

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Lys Ser Tyr His Arg Arg Val Lys Leu Met Ile Lys Asn Asn Glu Leu
1      5      10      15
Ile His Pro Phe Asp Val Thr Ser Asn Glu Ser Gly Lys Thr Tyr Gln
      20      25      30
Leu Thr Pro Asn Ser Ser Lys Ser Val Gln Pro Val Ala Leu Leu Arg
      35      40      45
Leu Ser Val Phe Thr Pro Val Gly Thr Lys Glu Asn Arg Asp Arg Asn
      50      55      60
Phe Glu Val Asp Ala Ser Asp Glu Leu Ser Cys Met Glu Ile Ala Arg
      65      70      75      80
Ser Glu Gly Tyr Asp Asp Ile Lys Ile Thr Gly Val Lys Leu Ser Met
      85      90      95
Ser Thr Asp Phe Lys Cys Trp Leu Gly Ile Ile Met Ala Phe Ser Lys

```

Tyr Gly Phe Thr Ser Glu Lys Ile Ser Leu Thr Phe Asn Glu Phe Ala
 100 105 110
 115 120 125
 Lys Met Cys Gly Ile Ser Ser Thr Asn Ile Asn Lys Arg Thr Arg Ala
 130 135 140
 Arg Phe Lys Glu Ser Leu Met Asn Leu Ala Ser Val Val Leu Ala Phe
 145 150 155 160
 Ser Asp Ser Arg Ser Gly Arg Phe Thr Val Thr His Leu Val Gln Lys
 165 170 175
 Ala Met Ile Asp Pro Lys Ser Asp Thr Val Glu Leu Val Gly Asp Pro
 180 185 190
 Ser Met Trp Glu Leu Tyr Arg Tyr Asp His Lys Thr Leu Leu Ser Leu
 195 200 205
 Gln Val Leu Tyr Ile Leu Ala Lys Lys Glu Ala Ala Gln Ser Leu Tyr
 210 215 220
 Ile Tyr Phe Glu Ala Met Pro Ala Gly Thr Leu Phe Val Asn Met Lys
 225 230 235 240
 Arg Leu Arg Glu Arg Leu Leu Thr Thr Pro Ile Arg Thr Gln Asn
 245 250 255
 Gln Ile Ile Arg Lys Ala Met Arg Glu Leu Glu Ser Ile Gly Tyr Leu
 260 265 270
 Asp Tyr Gln Glu Val Lys Lys Gly Arg Asp Ile Gln Phe Gln Ile Phe
 275 280 285
 Lys Arg Ser Pro Lys Leu Ala Leu Ala Lys Gln Gly
 290 295 300

<210> 6062

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 6062

Met Lys Met Leu Ser Gly Ile Asn Ile Pro Phe Phe Lys Lys Ser Lys
 1 5 10 15
 Lys Asp Glu Asn Gly Asp Leu Glu Gln Ser Tyr Val Lys Lys Asp Glu
 20 25 30
 Ser Ala Lys Gly Arg Phe Leu Asp Ile Lys Lys Arg Phe Ser Pro Gln
 35 40 45
 Ala Glu Ala Ser Gly Ala Gly Ile Thr Tyr Ser Ala Leu Ile Asn Arg
 50 55 60
 Asp Thr Lys Leu Ile Arg Ile Asn Thr Val Ser Ile Ala Val Ile Gly
 65 70 75 80
 Leu Leu Val Ala Lys Ile Leu Phe Phe Thr Asp Pro Val Thr Ile Val
 85 90 95
 Thr Pro Pro Asn Met Asn Glu Glu Ile Thr Val Val Gly Asn Lys Ala
 100 105 110
 Ser Glu Ser Tyr Lys Thr Gln Trp Ala Leu Phe Phe Ser Thr Leu Leu
 115 120 125
 Gly Asn Ile Asn Pro Thr Asn Ile Ser Phe Val Thr Ala Tyr Val Leu
 130 135 140
 Asp Ala Leu Ser Pro Glu Leu Gln Ala Lys Thr Ser Glu Ser Leu Gln
 145 150 155 160
 Glu Gln Ile Asn Ile Met Gln Ala Arg Gly Val Glu Gln Thr Phe Lys
 165 170 175
 Pro Asn Asp Ile Tyr Phe Asp Pro Lys Asn Asp Met Val Tyr Val Trp
 180 185 190
 Gly Thr Lys Thr Thr Arg Leu Val Asn Val Pro Asp Lys Thr Glu Ser
 195 200 205
 Ser Lys Trp Thr Tyr Glu Trp Val Leu Gly Met Lys Asn Gly Arg Pro
 210 215 220
 Arg Ile Ala Tyr Val Asn Gln Tyr Ser Gly Thr Pro Asn Ile Lys Lys

225 230 235 240
 Ile Thr Ile Asn Gly Lys Glu Gln Leu Ala Thr Leu Asp Asn Pro Pro
 245 250 255
 Pro Ser Thr Gly Asn Lys
 260

<210> 6063
 <211> 214
 <212> PRT
 <213> Enterobacter cloacae

<400> 6063
 Gln Glu Leu Arg Met Ile Asp Leu Tyr Tyr Ala Pro Thr Pro Asn Gly
 1 5 10 15
 His Lys Ile Thr Leu Phe Leu Glu Glu Ala Glu Val Asp Tyr Arg Ile
 20 25 30
 Ile Arg Val Asp Ile Ser Lys Gly Asp Gln Phe Arg Pro Val Phe Leu
 35 40 45
 Ala Ile Ser Pro Asn Asn Lys Ile Pro Ala Ile Ile Asp Asn Leu Pro
 50 55 60
 Ser Asp Gly Gly Lys Pro Leu Ser Leu Phe Glu Ser Gly Glu Ile Leu
 65 70 75 80
 Leu Tyr Leu Ala Glu Lys Thr Gly Lys Leu Leu Ser Gly Glu Leu Arg
 85 90 95
 Glu Arg His His Thr Leu Gln Trp Leu Phe Trp Gln Ser Ser Gly Leu
 100 105 110
 Gly Pro Met Leu Gly Gln Asn His His Phe Thr Ala Tyr Ala Pro Gln
 115 120 125
 Thr Ile Pro Tyr Ala Ile Glu Arg Tyr Gln Val Glu Thr Gln Arg Leu
 130 135 140
 Tyr Gly Val Leu Asn Arg Arg Leu Glu Lys Ser Pro Trp Leu Gly Gly
 145 150 155 160
 Glu His Tyr Ser Ile Ala Asp Ile Ala Cys Trp Pro Trp Ile Asn Thr
 165 170 175
 His Glu Arg His Arg Ile Asp Leu Ala Thr Tyr Pro Ala Val Asn Asn
 180 185 190
 Trp Phe Glu Arg Ile Arg Thr Arg Pro Ala Thr Glu Arg Ala Met Gln
 195 200 205
 Lys Ile His Gln Ile
 210

<210> 6064
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 6064
 Ser Cys Ala Pro Leu Gly Ala Gly Val Leu Met Tyr Asp Glu Val
 1 5 10 15
 Lys Ile Leu Thr Arg Arg Arg Pro Val Met Ser Gln His Asp Ala Ile
 20 25 30
 Ile Arg Ile Lys Asn Leu Arg Leu Arg Thr Phe Ile Gly Ile Lys Glu
 35 40 45
 Glu Glu Ile Ala Asn Arg Gln Asp Ile Val Val Asn Val Val Ile His
 50 55 60
 Tyr Pro Ala Asp Lys Ala Arg Ala Ser Glu Asp Ile Asn Asp Ala Leu
 65 70 75 80
 Asn Tyr Arg Thr Ile Thr Lys Ser Ile Ile Gln Tyr Val Glu Asn Asn
 85 90 95
 Arg Phe Ala Leu Leu Glu Lys Leu Thr Gln Asp Val Leu Asp Ile Ala
 100 105 110

Arg Glu His His Trp Val Thr Tyr Ala Glu Val Glu Ile Asp Lys Leu
 115 120 125
 His Ala Leu Arg Tyr Ala Asp Ser Val Ser Met Thr Leu Ser Trp Gln
 130 135 140
 Arg Gln Ala
 145

<210> 6065

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 6065

Tyr Gly Val Thr Met Ala Thr Ile Thr Thr Thr Arg Leu Asn Leu Thr
 1 5 10 15
 Pro Phe Glu Pro Ser Asp Trp Ala Phe Phe Arg Ser Leu Arg Glu Asp
 20 25 30
 Pro Ala Ile Met Arg Tyr Met Ala Ala Ile Thr Pro Glu Lys Glu Thr
 35 40 45
 Arg Arg Val Phe Ala Ala Arg Leu Met Ala Glu His Val Phe Val Ile
 50 55 60
 Arg Leu His Asn Asp Val Lys Pro Leu Gly Asp Ile Gly Leu Gln Ile
 65 70 75 80
 Ser Ala Ala Asn Arg Glu Glu Ala Asp Ile Gly Tyr Thr Val Val Pro
 85 90 95
 Ala Ala Gln Gly Lys Gly Ile Ala Ser Glu Ala Leu Arg Ala Val Cys
 100 105 110
 Glu Tyr Ala Phe Asn Gln Thr Gly Val Lys Ala Ile Asn Ala Tyr Val
 115 120 125
 Leu Ala Asp Asn Val Gly Ser Val Arg Val Leu Glu Lys Ala Gly Phe
 130 135 140
 Val Arg Thr Gln Val Leu Glu Lys Ala Tyr Glu Ile Asn Gly Val Arg
 145 150 155 160
 Tyr Asp Asp Trp Val Tyr Arg Leu Glu Cys
 165 170

<210> 6066

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6066

Ala Gly Ser Ala Arg Arg Lys Pro Gly Gly Cys Met Lys Ile Leu Leu
 1 5 10 15
 Thr Gly Gly Thr Gly Leu Ile Gly Arg His Leu Ile Pro Arg Leu Gln
 20 25 30
 Ala Leu His His Asp Ile Thr Val Val Thr Arg Ser Pro Glu Lys Ala
 35 40 45
 Arg Gln Val Leu Gly Thr Gly Val Glu Ile Trp Lys Gly Leu Ala Glu
 50 55 60
 Arg Gln Asp Leu Asn Gly Phe Asp Ala Val Ile Asn Leu Ala Gly Glu
 65 70 75 80
 Pro Ile Ala Asp Lys Arg Trp Thr Glu Glu Gln Lys Gln Arg Leu Cys
 85 90 95
 Ser Ser Arg Trp Asn Met Thr Glu Arg Leu Val Glu Leu Ile Arg Asn
 100 105 110
 Ser Glu Thr Pro Pro Ser Val Leu Ile Ser Gly Ser Ala Thr Gly Tyr
 115 120 125
 Tyr Gly Asp Leu Gly Glu Val Val Val Thr Glu Glu Glu Pro Pro His
 130 135 140
 Asn Glu Phe Thr His Lys Leu Cys Ala Gln Trp Glu Arg Ile Ala Cys

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145          150          155          160
Gly Ala Gln Ser Asp Asn Thr Arg Val Cys Leu Arg Thr Gly Val
165          170          175
Val Leu Ala Pro Lys Gly Gly Ile Leu Gly Lys Met Leu Pro Phe
180          185          190
Lys Met Gly Leu Gly Gly Pro Ile Gly Asn Gly Arg Gln Tyr Leu Ala
195          200          205
Trp Ile His Ile Asp Asp Met Val Asn Gly Ile Leu Trp Leu Leu Asp
210          215          220
Asn Asp Leu Arg Gly Pro Phe Asn Met Val Ser Pro Tyr Pro Val Arg
225          230          235          240
Asn Glu Gln Phe Ala His Ala Leu Gly His Ala Leu His Arg Pro Ala
245          250          255
Val Leu Arg Val Pro Ala Thr Ala Ile Arg Leu Leu Met Gly Glu Ser
260          265          270
Ser Val Leu Val Leu Gly Gly Gln Arg Ala Leu Pro Lys Arg Leu Glu
275          280          285
Ala Ala Gly Phe Thr Phe Arg Trp Tyr Asp Leu Glu Ala Leu Gly
290          295          300
Asp Val Val Gln
305

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<210> 6067

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 6067

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Arg Cys Gly Pro Met Arg Thr Phe Phe Ser Pro Tyr Val Met Ser Val
1          5          10          15
Tyr Val Ala Leu Ala Glu Lys Gly Leu Thr Phe Thr Leu Lys Thr Val
20          25          30
Asp Leu Asp Ser Gly Glu His Leu Lys Pro Gln Trp Gln Gly Tyr Ala
35          40          45
Leu Thr Arg Arg Val Pro Val Leu Glu Ile Asp Gly Phe Glu Leu Ser
50          55          60
Glu Ser Ser Ala Ile Asp Glu Tyr Leu Glu Asp Arg Phe Ala Pro Pro
65          70          75          80
Glu Trp Glu Arg Ile Tyr Pro His Asp Leu Gln Lys Arg Ala Arg Ala
85          90          95
Arg Gln Ile Gln Ala Trp Leu Arg Ser Asp Leu Val Pro Ile Arg Thr
100          105          110
Glu Arg Ser Thr Asp Val Val Phe Ala Gly Val Lys Lys Pro Ala Leu
115          120          125
Ser Glu Glu Gly Leu Ser Ser Ala Arg Lys Leu Ile Glu Thr Ala Ser
130          135          140
Ser Leu Leu Ala Gln Gly Asn Pro Ser Phe His Arg Arg Arg His Glu
145          150          155          160
Gly Lys Thr Tyr Lys Pro Gly Gly
165

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<210> 6068

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6068

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Glu Val Leu Lys Gly Val Ser Leu Glu Ala Asn Ala Gly Asp Val Ile
1          5          10          15
Ser Ile Ile Gly Ser Ser Gly Ser Gly Lys Ser Thr Phe Leu Arg Cys
20          25          30

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Ile Asn Phe Leu Glu Lys Pro Ser Glu Gly Ser Ile Val Val Ser Gly
    35          40          45
Gln Asn Ile Asn Met Val Arg Asp Lys Asp Gly Gln Leu Lys Val Ala
    50          55          60
Asp Lys Asn Gln Leu Arg Leu Leu Arg Thr Arg Leu Thr Met Val Phe
    65          70          75          80
Gln His Phe Asn Leu Trp Ser His Met Thr Val Leu Glu Asn Val Met
    85          90          95
Glu Ala Pro Val Gln Val Leu Gly Leu Ser Lys Gln Glu Ala Arg Glu
    100          105          110
Arg Ala Val Lys Tyr Leu Ala Lys Val Gly Ile Asp Glu Arg Gln Gln
    115          120          125
Ile Lys Tyr Pro Val His Leu Ser Gly Gly Gln Gln Arg Val Ser
    130          135          140
Ile Ala Arg Ala Leu Ala Met Glu Pro Glu Val Leu Leu Phe Asp Glu
    145          150          155          160
Pro Thr Ser Ala Leu Asp Pro Glu Leu Val Gly Glu Val Leu Arg Ile
    165          170          175
Met Gln Lys Leu Ala Glu Glu Gly Lys Thr Met Val Val Val Thr His
    180          185          190
Glu Met Gly Phe Ala Arg Asn Val Ser Asn His Val Ile Phe Leu His
    195          200          205
Gln Gly Lys Ile Glu Glu Gln Gly His Pro Asp Glu Val Leu Ala Asn
    210          215          220
Pro Gln Ser Pro Arg Leu Gln Gln Phe Leu Lys Gly Ser Leu Lys
    225          230          235          240

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<210> 6069

<211> 350

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (336)

<400> 6069

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His Asn Leu Leu Phe Gln Thr Arg Gln Asp Lys Gln Thr Asn Leu Ile
    1          5          10          15
Asp Ile Asn Phe Leu Ala Leu Pro Met Asn Leu Arg Asp Asp Arg Arg
    20          25          30
Ile Asp Met Arg Asn Ser Met Asn Ala Phe Ser Pro Ala Gln Phe Arg
    35          40          45
Ala Gln Phe Pro Ala Leu Ala Asp Ala Gly Ile Tyr Leu Asp Ser Ala
    50          55          60
Ala Thr Ala Leu Lys Pro Gln Ala Val Ile Glu Ala Thr Arg Gln Phe
    65          70          75          80
Tyr Ser Leu Ser Ala Gly Asn Val His Arg Ser Gln Tyr Ala Asp Ala
    85          90          95
Gln Arg Leu Thr Ala Gln Tyr Glu Ala Ala Arg Asp Gln Val Ala Arg
    100          105          110
Leu Ile Asn Ala Asp Ser Gly Lys Asn Ile Val Trp Thr Arg Gly Thr
    115          120          125
Thr Glu Ala Ile Asn Met Val Ala Gln Cys Tyr Ala Arg Pro Leu Leu
    130          135          140
Gln Pro Gly Asp Glu Ile Ile Val Ser Glu Ala Gln His His Ala Asn
    145          150          155          160
Leu Val Pro Trp Leu Met Val Ala Glu Gln Thr Gly Ala Gln Val Val
    165          170          175
Lys Leu Pro Leu Gly Ala Asp Phe Leu Pro Asp Val Ala Arg Leu Pro
    180          185          190

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Glu Leu Ile Thr Pro Arg Ser Arg Ile Leu Ala Leu Gly Gln Met Ser
 195 200 205
 Asn Val Thr Gly Gly Cys Pro Asp Leu Ala Arg Ala Ile Glu Ile Ala
 210 215 220
 His Ala Ser Gly Val Val Val Met Val Asp Gly Ala Gln Gly Val Val
 225 230 235 240
 His Phe Pro Ala Asp Val Gln Ala Leu Asp Ile Asp Phe Tyr Ala Phe
 245 250 255
 Ser Gly His Lys Leu Tyr Gly Pro Thr Gly Ile Gly Ala Leu Tyr Gly
 260 265 270
 Lys Pro Glu Leu Leu Ala Arg Met Thr Pro Trp Leu Gly Gly Lys
 275 280 285
 Met Ile Thr Glu Val Thr Phe Asp Gly Phe Lys Thr Gln Asp Val Pro
 290 295 300
 Tyr Arg Leu Glu Ala Gly Thr Pro Asn Val Ala Gly Val Ile Gly Leu
 305 310 315 320
 Ser Ala Ala Leu Glu Trp Leu Ala Lys Thr Asp Val Val Gln Ala Xaa
 325 330 335
 Ser Trp Asn Arg Gly Leu Ala Thr Leu Val Glu Lys Asp
 340 345 350

<210> 6070

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6070

Arg Arg Cys Ala Gly Phe Arg Arg Arg Pro Arg Pro Gly Ile Thr Gly
 1 5 10 15
 Gly Leu Met Thr Ser Ser Ala Leu Ala Gly His Pro Phe Gly Thr Val
 20 25 30
 Ile Thr Glu Glu Thr Leu Lys Gln Thr Phe Val Pro Leu Thr Gln Trp
 35 40 45
 Glu Asp Lys Tyr Arg Gln Leu Ile Leu Leu Gly Lys Gln Leu Pro Ala
 50 55 60
 Leu Ser Asp Glu Leu Lys Leu Gln Ala Lys Glu Ile Ala Gly Cys Glu
 65 70 75 80
 Asn Arg Val Trp Leu Gly Phe Ser Val Ser Gly Glu Lys Leu His Phe
 85 90 95
 Phe Gly Asp Ser Glu Gly Arg Ile Val Arg Gly Leu Leu Ala Val Leu
 100 105 110
 Leu Thr Ala Ile Glu Gly Lys Ser Ala Ala Glu Leu Leu Ala His Ser
 115 120 125
 Pro Leu Ala Leu Phe Asp Glu Leu Gly Leu Thr Gln Leu Ser Ala
 130 135 140
 Ser Arg Gly Gln Gly Leu Ile Ala Leu Asn Asp Ala Val Leu Asp Ala
 145 150 155 160
 Ala Arg Gln Ala Gln Ala
 165

<210> 6071

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 6071

Phe Arg Gly Arg Ala His Ser Asp Met Val Thr Leu Leu Ala Gly Tyr
 1 5 10 15
 Gly Ile Ala Leu Arg Ala Gly Gln His Cys Ala Gln Pro Leu Leu Ala
 20 25 30
 Ala Ile Gly Val Ser Gly Thr Leu Arg Ala Ser Phe Ala Pro Tyr Asn

35 40 45
 Thr Lys Ser Asp Val Asp Ala Leu Val Ser Ala Val Asp Arg Ala Leu
 50 55 60
 Glu Leu Leu Val Asp
 65 70

<210> 6072
 <211> 378
 <212> PRT
 <213> Enterobacter cloacae

<400> 6072
 Gly Gly Gly Thr Thr Thr Ser Ala Pro Gly Glu Asp Asn Glu Arg Ser
 1 5 10 15
 Trp Ala Lys Tyr Leu Met Thr Gly Ala Met Val Ala Ile Leu Ala Ala
 20 25 30
 Cys Ser Ser Lys Pro Thr Asp Arg Gly Gln Gln Tyr Lys Asp Gly Lys
 35 40 45
 Leu Ser Gln Pro Phe Ser Leu Val Asn Gln Pro Asp Ala Val Gly Ala
 50 55 60
 Pro Ile Asn Ala Gly Asp Phe Ser Glu Gln Val Tyr Gln Ile Arg Lys
 65 70 75 80
 Ala Ser Pro Arg Leu Tyr Gly Ala Gln Asn Asn Val Tyr Ser Ala Val
 85 90 95
 Gln Asp Trp Leu Arg Ala Gly Gly Asp Thr Arg Asn Met Arg Gln Phe
 100 105
 Gly Ile Asp Ala Trp Gln Met Glu Gly Ala Asp Asn Tyr Gly Asn Val
 115 120 125
 Gln Phe Thr Gly Tyr Tyr Thr Pro Val Val Gln Ala Arg His Thr Arg
 130 135 140
 Gln Gly Glu Phe Gln Tyr Pro Ile Tyr Arg Met Pro Pro Lys Arg Gly
 145 150 155 160
 Arg Leu Pro Ser Arg Ala Glu Ile Tyr Ala Gly Ala Leu Ser Glu Asn
 165 170 175
 Tyr Val Leu Ala Tyr Ser Asn Ser Leu Met Asp Asn Phe Ile Met Asp
 180 185 190
 Val Gln Gly Ser Gly Tyr Ile Asp Phe Gly Asp Gly Ser Pro Leu Asn
 195 200 205
 Phe Phe Ser Tyr Ala Gly Lys Asn Gly His Ala Tyr Arg Ser Ile Gly
 210 215 220
 Lys Val Leu Ile Asp Arg Gly Glu Val Lys Arg Glu Asp Met Ser Met
 225 230 235 240
 Gln Ala Ile Arg Glu Trp Gly Glu Lys His Ser Glu Ala Glu Val Arg
 245 250 255
 Glu Leu Leu Glu Gln Asn Pro Ser Phe Val Phe Phe Lys Pro Gln Asn
 260 265 270
 Phe Ala Pro Val Lys Gly Ala Ser Ala Val Pro Leu Ile Gly Arg Ala
 275 280 285
 Ser Val Ala Ser Asp Arg Ser Ile Ile Pro Ala Gly Thr Thr Leu Leu
 290 295 300
 Ala Glu Val Pro Leu Leu Asp Asn Asn Gly Lys Phe Asn Gly Lys Tyr
 305 310 315 320
 Glu Leu Arg Leu Met Val Ala Leu Asp Val Gly Gly Ala Ile Lys Gly
 325 330 335
 Gln His Phe Asp Ile Tyr Gln Gly Ile Gly Pro Asp Ala Gly His Arg
 340 345 350
 Ala Gly Trp Tyr Asn His Tyr Gly Arg Val Trp Val Leu Lys Thr Ala
 355 360 365
 Pro Gly Thr Gly Asn Val Phe Ser Gly
 370 375

<210> 6073

<211> 271

<212> PRT

<213> *Enterobacter cloacae*

<400> 6073

Gly Phe Met Ser Val Val Ile Ser Asp Ala Trp Arg Gln Arg Phe Gly
 1 5 10 15
 Gly Thr Ala Arg Leu Tyr Gly Glu Lys Ala Leu Gln Leu Phe Ala Asp
 20 25 30
 Ala His Val Cys Val Val Gly Ile Gly Gly Val Gly Ser Trp Ala Ala
 35 40 45
 Glu Ala Leu Ala Arg Thr Gly Ile Gly Ala Ile Thr Leu Ile Asp Met
 50 55 60
 Asp Asp Val Cys Val Thr Asn Thr Asn Arg Gln Ile His Ala Leu Arg
 65 70 75 80
 Asp Asn Val Gly Leu Ala Lys Ser Glu Val Met Ala Glu Arg Ile Arg
 85 90 95
 Leu Ile Asn Pro Glu Cys Arg Val Thr Val Ile Asp Asp Phe Val Thr
 100 105 110
 Ala Asp Asn Val Ala Glu Tyr Met Ser Lys Gly Tyr Ser Tyr Val Ile
 115 120 125
 Asp Ala Ile Asp Ser Val Arg Pro Lys Ala Ala Leu Ile Ala Tyr Cys
 130 135 140
 Arg Arg Tyr Lys Val Pro Leu Val Thr Thr Gly Gly Ala Gly Gly Gln
 145 150 155 160
 Ile Asp Pro Thr Gln Ile Gln Val Ala Asp Leu Ala Lys Thr Ile Gln
 165 170 175
 Asp Pro Leu Ala Ala Lys Leu Arg Glu Arg Leu Lys Ser Asp Phe Asn
 180 185 190
 Val Val Lys Asn Ser Lys Gly Lys Leu Gly Val Asp Cys Val Phe Ser
 195 200 205
 Thr Glu Ala Leu Val Tyr Pro Gln Ala Asp Gly Ser Val Cys Ala Met
 210 215 220
 Lys Ser Thr Ala Glu Gly Pro Lys Arg Met Asp Cys Ala Ser Gly Phe
 225 230 235 240
 Gly Ala Ala Thr Met Val Thr Ala Ser Phe Gly Phe Val Ala Val Ser
 245 250 255
 His Ala Leu Lys Lys Met Met Ala Lys Ala Glu Arg Gln Ala
 260 265 270

<210> 6074

<211> 69

<212> PRT

<213> *Enterobacter cloacae*

<400> 6074

Leu Leu Lys Glu Ile Ile Met Lys Lys Thr Ala Ala Ile Ile Ser Ala
 1 5 10 15
 Cys Ala Leu Thr Phe Ala Leu Ser Ala Cys Ser Gly Asn Asn Tyr Val
 20 25 30
 Met His Thr Asn Asp Gly Arg Ser Ile Val Ser Glu Gly Lys Pro Thr
 35 40 45
 Thr Asp Asn Asp Thr Gly Met Ile Cys Leu His Thr Arg Arg Trp Lys
 50 55 60
 Ile Arg Tyr Cys Val
 65

<210> 6075

<211> 154

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(93)

<220>

<221>UNSURE

<222>(135)

<220>

<221>UNSURE

<222>(142)

<400> 6075

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His Leu Leu Cys Ile Asp Ser Lys Thr His Glu Phe Arg Leu Pro Glu
1          5          10          15
Arg Pro Arg Ala Ser Asn Leu Ala Arg Tyr Phe Leu Pro Pro Val Asn
20          25          30
Arg Ile Thr Ala Met Pro Arg Ala Asn Glu Ile Lys Lys Gly Met Val
35          40          45
Leu Asn Tyr Asn Gly Lys Leu Leu Ile Val Lys Asp Ile Asp Ile Gln
50          55          60
Ala Pro Ser Ala Arg Gly Ala Ala Thr Leu Tyr Lys Met Arg Phe Ser
65          70          75          80
Asp Val Arg Thr Gly Leu Lys Val Glu Glu Arg Phe Xaa Gly Asp Asp
85          90          95
Ile Val Asp Thr Val Thr Leu Thr Arg Arg Tyr Val Asp Phe Ser Tyr
100          105          110
Ile Asp Gly Asn Glu Tyr Val Phe Met Asp Lys Glu Asn Tyr Pro Arg
115          120          125
Ile Ser Ser Pro Lys Ile Xaa Ser Lys Lys Ser Cys Cys Xaa Phe Leu
130          135          140
Lys Val Gly Cys Arg Thr Cys Arg Cys
145          150

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<210> 6076

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 6076

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Phe Phe Val Ala Ile Leu Thr Leu Pro Ser Val Tyr Leu Met Thr Gly
1          5          10          15
Gly Val Asn Ser Ala Ser Leu Cys Tyr Ser Gln Arg Leu Asn Met His
20          25          30
Asn Thr Pro Ala Ala Ala Ser Pro Lys Pro Phe Asp Leu Thr Ser Thr
35          40          45
Ala Phe Leu Ile Val Ala Phe Leu Thr Gly Ile Ala Gly Ala Leu Gln
50          55          60
Thr Arg Thr Leu Ser Leu Phe Leu Thr Asn Glu Val His Ala Arg Pro
65          70          75          80
Ala Met Val Gly Phe Phe Phe Thr Gly Ser Ala Ile Ile Gly Ile Phe
85          90          95
Val Ser Gln Phe Leu Ala Gly Arg Ser Asp Arg Lys Gly Asp Arg Lys
100          105          110
Ser Leu Ile Val Phe Cys Cys Leu Leu Gly Val Phe Ala Cys Leu Leu
115          120          125
Phe Ala Trp Asn Arg Asn Tyr Phe Ile Leu Leu Phe Val Gly Val Phe
130          135          140
Leu Ser Ser Phe Gly Ser Thr Ala Asn Pro Gln Met Phe Ala Leu Ala

```

145 150 155 160
 Arg Glu His Ala Asp His Thr Gly Arg Glu Ala Val Met Phe Ser Ser
 Ile Leu Arg Ala Gln Val Ser Leu Ala Trp Val Ile Gly Pro Pro Leu
 Ala Tyr Ala Leu Ala Met Gly Phe Gly Phe Thr Val Met Tyr Leu Ser
 Ala Ala Val Ala Phe Val Val Cys Gly Ala Met Val Trp Phe Phe Leu
 Pro Ser Met Arg Lys Glu Pro Lys Val Ala Thr Gly Thr Leu Glu Ala
 225 230 235 240
 Pro Arg Arg Asn Arg Arg Asp Ala Leu Leu Leu Phe Ile Ile Cys Thr
 Leu Met Trp Gly Thr Asn Ser Leu Tyr Ile Ile Asn Met Pro Leu Phe
 Ile Ile Asp Glu Leu His Leu Pro Glu Lys Leu Ala Gly Ile Met Met
 Gly Thr Ala Ala Gly Leu Glu Ile Pro Thr Met Leu Ile Ala Gly Tyr
 Tyr Ala Lys Arg Phe Gly Lys Arg Phe Leu Met Arg Val Ala Ala Val
 305 310 315 320
 Ala Gly Leu Leu Phe Tyr Val Gly Met Leu Thr Val His Thr Pro Ala
 Leu Leu Leu Ala Leu Gln Leu Leu Asn Ala Ile Tyr Ile Gly Ile Leu
 Ala Gly Ile Gly Met Leu Tyr Phe Gln Asp Leu Met Pro Gly Gln Ala
 Gly Ser Ala Thr Thr Leu Tyr Thr Asn Thr Thr Arg Val Gly Trp Ile
 Ile Ala Gly Ser Leu Ala Gly Val Val Ala Glu Ile Trp Asn Tyr His
 385 390 395 400
 Thr Val Phe Trp Ile Ala Leu Val Met Cys Val Met Thr Leu Ser Cys
 Leu Thr Arg Ile Lys Asp Val
 420

<210> 6077

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6077

Thr Gly Ala Glu Ser Asp Trp Arg Arg His Arg Gly Arg Ser Gly Gly
 1 5 10 15
 Gly Arg Ile Met Ser Arg Arg Val Ala Thr Ile Thr Leu Asn Pro Ala
 20 25 30
 Tyr Asp Leu Val Gly Phe Cys Pro Glu Ile Glu Arg Gly Glu Val Asn
 35 40 45
 Leu Val Arg Thr Thr Gly Leu His Ala Ala Gly Lys Gly Ile Asn Val
 50 55 60
 Ala Lys Val Leu Lys Asp Leu Gly Ile Asp Val Thr Val Gly Gly Phe
 65 70 75 80
 Leu Gly Lys Asp Asn Gln Asp Gly Phe Gln Gln Leu Phe Ser Glu Leu
 85 90 95
 Gly Ile Ala Asn Arg Phe Gln Val Val Gln Gly Arg Thr Arg Ile Asn
 100 105 110
 Val Lys Leu Thr Glu Lys Asp Gly Glu Val Thr Asp Leu Asn Phe Ser
 115 120 125
 Gly Phe Glu Val Thr Pro Ala Asp Trp Glu Arg Phe Val Ala Asp Ser
 130 135 140
 Leu Ser Trp Leu Gly Gln Phe Asp Met Val Cys Val Ser Gly Ser Leu

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145          150          155          160
Pro Ser Gly Val Ser Pro Glu Ala Phe Thr Asp Trp Met Thr Arg Leu
          165          170          175
Arg Ser Gln Cys Pro Cys Ile Ile Phe Asp Ser Ser Arg Asp Ala Leu
          180          185          190
Val Ala Gly Leu Lys Ala Ser Pro Trp Leu Val Lys Pro Asn Arg Arg
          195          200          205
Glu Leu Glu Ile Trp Ala Gly Arg Lys Leu Pro Glu Leu Lys Asp Val
          210          215          220
Ile Asp Ala Ala His Ala Leu Arg Glu Gln Gly Ile Ala His Val Val
          225          230          235          240
Ile Ser Leu Gly Ala Glu Gly Ala Leu Trp Val Asn Ala Ser Gly Glu
          245          250          255
Trp Ile Ala Lys Pro Pro Ser Met Glu Val Val Ser Thr Val Gly Ala
          260          265          270
Gly Asp Ser Met Val Gly Gly Leu Ile Tyr Gly Leu Leu Met Arg Glu
          275          280          285
Ser Ser Glu His Thr Leu Arg Leu Ala Thr Ala Val Ala Ala Leu Ala
          290          295          300
Val Ser Gln Ser Asn Val Gly Ile Thr Asp Arg Thr Gln Leu Ala Ala
          305          310          315          320
Met Met Ala Arg Val Asp Leu Lys Pro Phe Asn
          325          330

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<210> 6078

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 6078

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Ala Glu Thr Thr Ile Gln Phe Gln Gln Glu Arg Arg Ile Met Phe Gln Leu
1          5          10          15
Ser Val Gln Asp Ile His Pro Gly Glu Gln Ala Gly Asn Lys Glu Glu
          20          25          30
Ala Ile Arg Gln Val Ala Ala Ala Leu Val Gln Ala Gly Asn Val Ala
          35          40          45
Asp Gly Tyr Val Asn Gly Met Leu Ala Arg Glu Gln Gln Thr Ser Thr
          50          55          60
Phe Leu Gly Asn Gly Ile Ala Ile Pro His Gly Thr Thr Asp Thr Arg
          65          70          75          80
Asp Gln Val Leu Lys Thr Gly Val Gln Val Phe Gln Phe Pro Gln Gly
          85          90          95
Val Leu Trp Gly Glu Gly Gln Val Ala Tyr Val Ala Ile Gly Ile Ala
          100          105          110
Ala Ser Gly Asp Glu His Leu Gly Leu Leu Arg Gln Leu Thr His Val
          115          120          125
Leu Ser Asp Asp Ala Val Ala Glu Gln Leu Lys Ser Ala Thr Thr Ala
          130          135          140
Glu Glu Leu Arg Ala Leu Leu Met Gly Glu Lys Gln Ser Glu Ala Leu
          145          150          155          160
Lys Leu Asp Asn Glu Thr Leu Thr Leu Asp Val Val Ala Ser Asp Leu
          165          170          175
Val Thr Leu Gln Ala Leu Asn Ala Ala Arg Leu Lys Glu Val Gly Ala
          180          185          190
Ala Asp Ser Ala Phe Val Thr Arg Ala Ile Asn Asp Lys Pro Leu Asn
          195          200          205
Leu Gly Gln Gly Ile Trp Leu Asn Asp Ser Ala Glu Gly Asn Leu Arg
          210          215          220
Ser Ala Ile Ala Val Ser Arg Ala Ala Val Ala Phe Glu Thr Asp Gly
          225          230          235          240
Glu Arg Ala Ala Met Leu Val Thr Val Ala Met Thr Asp Asp Gln Pro

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245 250 255
 Val Ser Val Leu Lys Arg Leu Gly Asp Leu Leu Asn Asn Lys Ala
 260 265 270
 Glu Lys Leu Leu Asn Ala Asp Ala Thr Val Leu Ala Leu Leu Thr
 275 280 285
 Ser Asp Asp Ala Leu Thr Asp Asp Leu Leu Ser Ala Glu Tyr Val Val
 290 295 300
 Arg Asn Glu His Gly Leu His Ala Arg Pro Gly Thr Met Leu Val Asn
 305 310 315 320
 Thr Ile Lys Gln Phe Glu Ser Glu Ile Thr Val Thr Asn Leu Asp Gly
 325 330 335
 Ser Gly Lys Pro Ala Asn Gly Arg Ser Leu Met Lys Val Val Ala Leu
 340 345 350
 Gly Val Lys Lys Gly His Arg Leu Arg Phe Thr Ala Gln Gly Ala Asp
 355 360 365
 Ala Glu Gln Ala Leu Lys Ala Ile Gly Asp Ala Ile Ala Ala Gly Leu
 370 375 380
 Gly Glu Gly Ala
 385

<210> 6079

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 6079

Asn Leu Leu Thr Asn Ser Arg Arg Gly Ile Met Lys Thr Leu Leu Ile
 1 5 10 15
 Ile Asp Ser Gly Leu Gly Gln Ala Arg Ala Tyr Met Ala Lys Thr Leu
 20 25 30
 Leu Gly Ala Ala Ala Gln Lys Ala His Leu Asp Ile Ile Asp Asn Pro
 35 40 45
 Gly Asp Ala Glu Met Ala Ile Val Leu Gly Asp Lys Ile Pro Ala Asp
 50 55 60
 Ser Ala Leu Asn Gly Lys Lys Val Trp Leu Gly Asp Ile Asn Arg Ala
 65 70 75 80
 Val Ala His Pro Glu Leu Phe Leu Ser Glu Ala Lys Gly His Ala Thr
 85 90 95
 Val Tyr Ser Ala Pro Val Glu Ala Ala Pro Val Ala Ala Val Gly Pro
 100 105 110
 Lys Arg Ile Val Ala Val Thr Ala Cys Pro Thr Gly Val Ala His Thr
 115 120 125
 Phe Met Ala Ala Glu Ala Ile Glu Thr Glu Ala Lys Lys Arg Gly Trp
 130 135 140
 Trp Val Lys Val Glu Thr Arg Gly Ser Val Gly Ala Gly Asn Ala Ile
 145 150 155 160
 Thr Pro Glu Glu Val Ala Glu Ala Asp Leu Val Ile Val Ala Ala Asp
 165 170 175
 Ile Glu Val Asp Leu Ala Lys Phe Ala Gly Lys Pro Met Tyr Arg Thr
 180 185 190
 Ser Thr Gly Leu Ala Leu Lys Lys Thr Ala Gln Glu Phe Asp Lys Ala
 195 200 205
 Leu Ala Glu Ala Lys Pro Tyr Gln Ala Thr Gly Ala Ala Lys Thr Ala
 210 215 220
 Thr Glu Gly Lys Lys Glu Ser Ala Gly Ala Tyr Arg His Leu Leu Thr
 225 230 235 240
 Gly Val Ser Tyr Met Leu Pro Met Val Val Ala Gly Gly Leu Cys Ile
 245 250 255
 Ala Leu Ser Phe Ala Phe Gly Ile Glu Ala Phe Lys Glu Pro Gly Thr
 260 265 270
 Leu Ala Ala Ala Leu Met Gln Ile Gly Gly Gly Ser Ala Phe Ala Leu

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<210> 6080
<211> 832
<212> PRT
<213> Enterobacter cloacae
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Lys	Arg	Trp	Gly	Cys	His	Cys	Trp	Arg	Ser	Leu	Val	Leu	Lys	Leu	Thr
1			5					10					15		
Thr	Leu	Leu	Val	Pro	Trp	Arg	Ala	Lys	Arg	Lys	Lys	Ala	Ser	Arg	Pro
		20						25				30			
Val	Leu	Ile	Ser	Thr	Gly	Asp	Lys	Asp	Met	Ala	Gln	Leu	Val	Thr	Pro
		35					40					45			
Gly	Ile	Thr	Leu	Ile	Asn	Thr	Met	Thr	Asn	Thr	Ile	Leu	Gly	Pro	Glu
	50				55						60				
Glu	Val	Val	Ala	Lys	Tyr	Gly	Val	Pro	Pro	Glu	Leu	Ile	Ile	Asp	Phe
65					70					75				80	
Leu	Ala	Leu	Met	Gly	Asp	Ser	Ser	Asp	Asn	Ile	Pro	Gly	Val	Pro	Gly
			85					90					95		
Val	Gly	Glu	Lys	Thr	Ala	Gln	Ala	Leu	Leu	Gln	Gly	Leu	Gly	Gly	Leu
			100					105					110		
Asp	Thr	Leu	Thr	Ala	Glu	Ser	Asp	Lys	Ile	Ala	Gly	Leu	Thr	Phe	Arg

115				120				125							
Gly	Ala	Lys	Thr	Met	Ala	Gly	Lys	Leu	Ala	Asp	Asn	Lys	Glu	Val	Ala
130						135					140				
Tyr	Leu	Ser	Tyr	Gln	Leu	Ala	Thr	Ile	Lys	Thr	Asp	Val	Lys	Leu	Glu
145					150				155						160
Leu	Thr	Cys	Glu	Gln	Leu	Glu	Val	Gln	Glu	Pro	Ala	Ala	Asp	Glu	Leu
				165					170						175
Leu	Gly	Leu	Phe	Arg	Lys	Tyr	Glu	Phe	Lys	Arg	Trp	Thr	Ala	Asp	Val
				180					185						190
Glu	Ala	Gly	Lys	Trp	Leu	Gln	Ala	Lys	Gly	Ala	Lys	Pro	Ala	Ala	Lys
		195					200					205			
Pro	Lys	Glu	Thr	Ile	Val	Val	Asp	Ala	Glu	Glu	Gln	Ala	Glu	Glu	Glu
	210					215					220				
Ala	Ile	Ala	Leu	Ser	Phe	Asp	Asn	Tyr	Glu	Thr	Ile	Leu	Glu	Glu	Ser
				230						235					240
Arg	Leu	Val	Ala	Trp	Ile	Glu	Lys	Leu	Lys	Lys	Ala	Pro	Val	Phe	Ala
				245					250					255	
Phe	Asp	Thr	Glu	Thr	Asp	Ser	Leu	Asp	Asn	Ile	Thr	Ala	Asn	Met	Val
				260				265					270		
Gly	Leu	Ser	Phe	Ala	Thr	Glu	Pro	Gly	Val	Ala	Ala	Tyr	Val	Pro	Val
		275					280					285			
Ala	His	Asp	Tyr	Leu	Asp	Ala	Pro	Glu	Gln	Ile	Ser	Arg	Glu	Arg	Ala
	290					295					300				
Leu	Glu	Leu	Leu	Lys	Pro	Ile	Leu	Glu	Tyr	Glu	Lys	Ala	Leu	Lys	Val
	305				310					315					320
Gly	Gln	Asn	Leu	Lys	Tyr	Asp	Arg	Gly	Ile	Leu	Gln	Asn	Tyr	Gly	Ile
				325					330					335	
Glu	Leu	Arg	Gly	Ile	Ala	Phe	Asp	Thr	Met	Leu	Glu	Ser	Tyr	Ile	Leu
				340				345					350		
Asp	Ser	Val	Ala	Gly	Arg	His	Asp	Met	Asp	Ser	Leu	Ser	Asp	Arg	Trp
		355					360					365			
Leu	Lys	His	Lys	Thr	Ile	Thr	Phe	Glu	Glu	Ile	Ala	Gly	Lys	Gly	Lys
		370				375					380				
Asn	Gln	Leu	Thr	Phe	Asn	Gln	Ile	Ala	Leu	Glu	Glu	Ala	Gly	Arg	Tyr
	385				390					395					400
Ala	Ala	Glu	Asp	Ala	Asp	Val	Thr	Leu	Gln	Leu	His	Leu	Lys	Met	Trp
				405				410						415	
Pro	Lys	Leu	Gln	Lys	His	Glu	Gly	Pro	Leu	Asn	Val	Phe	Arg	Asn	Ile
				420				425				430			
Glu	Met	Pro	Leu	Val	Pro	Val	Leu	Ser	Arg	Ile	Glu	Arg	Asn	Gly	Val
		435				440					445				
Lys	Ile	Asp	Pro	Thr	Val	Leu	His	Asn	His	Ser	Gly	Glu	Leu	Ala	Gln
	450					455					460				
Arg	Leu	Thr	Glu	Leu	Glu	Gln	Lys	Ala	His	Glu	Leu	Ala	Gly	Glu	Ala
	465				470					475					480
Phe	Asn	Leu	Ser	Ser	Pro	Lys	Gln	Leu	Gln	Thr	Ile	Leu	Phe	Glu	Lys
				485					490					495	
Gln	Gly	Ile	Lys	Pro	Leu	Lys	Lys	Thr	Pro	Gly	Gly	Ala	Pro	Ser	Thr
				500				505					510		
Ser	Glu	Glu	Val	Leu	Glu	Glu	Leu	Ala	Leu	Asp	Tyr	Pro	Leu	Pro	Lys
		515					520					525			
Val	Ile	Leu	Gln	Tyr	Arg	Gly	Leu	Ala	Lys	Leu	Lys	Ser	Thr	Tyr	Thr
	530					535					540				
Asp	Lys	Leu	Pro	Leu	Met	Ile	Asn	Pro	Lys	Thr	Gly	Arg	Val	His	Thr
	545				550					555					560
Ser	Tyr	His	Gln	Ala	Val	Ala	Ala	Thr	Gly	Arg	Leu	Ser	Ser	Thr	Asp
				565					570					575	
Pro	Asn	Leu	Gln	Asn	Ile	Pro	Val	Arg	Asn	Glu	Glu	Gly	Arg	Arg	Ile
				580				585					590		
Arg	Gln	Ala	Phe	Ile	Ala	Pro	Glu	Asp	Tyr	Leu	Ile	Val	Ser	Ala	Asp
		595					600								605

Tyr Ser Gln Ile Glu Leu Arg Ile Met Ala His Leu Ser Arg Asp Lys
 610 615 620
 Gly Leu Leu Thr Ala Phe Ala Glu Gly Lys Asp Ile His Arg Ala Thr
 625 630 640
 Ala Ala Glu Val Phe Gly Leu Pro Leu Glu Ser Val Thr Asn Glu Gln
 645 650 655
 Arg Arg Ser Ala Lys Ala Ile Asn Phe Gly Leu Ile Tyr Gly Met Ser
 660 665 670
 Ala Phe Gly Leu Ser Arg Gln Leu Asn Ile Pro Arg Lys Glu Ser Gln
 675 680 685
 Lys Tyr Met Asp Leu Tyr Phe Glu Arg Tyr Pro Gly Val Leu Glu Tyr
 690 695 700
 Met Glu Arg Thr Arg Ala Gln Ala Lys Glu Lys Gly Tyr Val Glu Thr
 705 710 715 720
 Leu Asp Gly Arg Arg Leu Tyr Leu Pro Asp Ile Lys Ser Ser Asn Ala
 725 730 735
 Ala Arg Arg Ala Gly Ala Glu Arg Ala Ala Ile Asn Ala Pro Met Gln
 740 745 750
 Gly Thr Ala Ala Asp Ile Ile Lys Arg Ala Met Ile Ala Val Asp Ala
 755 760 765
 Trp Leu Glu Lys Glu Lys Pro Arg Val Lys Met Ile Met Gln Val His
 770 775 780
 Asp Glu Leu Val Phe Glu Val His Lys Asp Asp Leu Glu Thr Val Ser
 785 790 795 800
 Gln Lys Ile His Glu Leu Met Glu Asn Ser Met Lys Leu Asp Val Pro
 805 810 815
 Leu Leu Val Glu Val Gly Ser Gly Glu Asn Trp Asp Gln Ala His
 820 825 830

<210> 6081

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 6081

Asn Ile Met Lys Lys Pro Thr Ser Ala Ala Gly Ala Lys Arg Pro Ala
 1 5 10 15
 Lys Ala Arg Arg Lys Thr Arg Glu Glu Leu Asn Gln Glu Ala Arg Asp
 20 25 30
 Arg Lys Arg Asp Lys Lys His Arg Gly His Ala Ala Gly Ser Arg Ala
 35 40 45
 Asn Gly Gly Gly Ala Pro Ser Ala Ser Gly Lys Arg Gln Pro Ala Glu
 50 55 60
 Lys Ile Leu Val Ser Ala Ile Lys Thr Pro Ile Gln Leu Gly Arg Glu
 65 70 75 80
 Arg His Pro Gly His
 85

<210> 6082

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 6082

Cys Phe His Pro Ser Val Ala Ser Phe Thr His Lys Phe Ile Thr Gly
 1 5 10 15
 Thr Asp Ile Met Val Gln Ile Pro Glu Asn Pro Leu Ile Leu Val Asp
 20 25 30
 Gly Ser Ser Tyr Leu Tyr Arg Ala Tyr His Ala Phe Pro Pro Leu Thr
 35 40 45
 Asn Ser Ala Gly Glu Pro Thr Gly Ala Met Tyr Gly Val Leu Asn Met

```

      50              55              60
Leu Arg Ser Leu Ile Leu Gln Tyr His Pro Thr His Ala Ala Val Val
65              70              75              80
Phe Asp Ala Lys Gly Lys Thr Phe Arg Asp Glu Leu Phe Glu His Tyr
      85              90
Lys Ser His Arg Pro Pro Met Pro Asp Asp Leu Arg Ala Gln Ile Glu
      100              105              110
Pro Leu His Ala Met Val Lys Ala Met Gly Leu Pro Leu Leu Ala Val
      115              120              125
Ser Gly Val Glu Ala Asp Asp Val Ile Gly Thr Leu Ala Arg Glu Ala
      130              135              140
Glu Lys Ser Lys Pro Pro Gly Ser Asp Gln Tyr Arg
145              150              155

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<210> 6083

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 6083

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Ser Pro Gln Ile Thr Ile Phe Gly Asp Asp His Val Thr Thr Trp Asn
1              5              10              15
Tyr Gln Gln Thr His Phe Val Thr Ser Ala Pro Asp Ile Arg His Leu
      20              25              30
Pro Ser Asp Thr Gly Ile Glu Val Ala Phe Ala Gly Arg Ser Asn Ala
      35              40              45
Gly Lys Ser Ser Ala Leu Asn Thr Leu Thr Asn Gln Lys Asn Leu Ala
      50              55              60
Arg Thr Ser Lys Thr Pro Gly Arg Thr Gln Leu Ile Asn Leu Phe Glu
65              70              75              80
Val Ala Glu Gly Lys Arg Leu Val Asp Leu Pro Gly Tyr Gly Tyr Ala
      85              90              95
Gln Val Pro Glu Glu Met Lys Ile Lys Trp Gln Arg Ala Leu Gly Glu
      100              105              110
Tyr Leu Glu Lys Arg Met Cys Leu Lys Gly Leu Val Val Leu Met Asp
      115              120              125
Ile Arg His Pro Leu Lys Asp Leu Asp Gln Gln Met Ile Asp Trp Ala
      130              135              140
Val Ala Ser Asp Ile Ala Val Leu Val Leu Leu Thr Lys Ala Asp Lys
145              150              155              160
Leu Ala Ser Gly Ala Arg Lys Ala Gln Val Asn Lys Val Arg Glu Ala
      165              170              175
Val Leu Ala Phe Asn Gly Asp Val Gln Val Glu Pro Phe Ser Ser Leu
      180              185              190
Lys Lys Gln Gly Val Asp Lys Leu Arg Gln Lys Leu Asp Ser Trp Phe
      195              200              205
Asn Asp Leu Glu Pro Ala Thr Glu Ala Glu Ala Glu
      210              215              220

```

<210> 6084

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 6084

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Thr Arg Trp Ile Phe Ala Gly Val Val Lys Thr Gly Glu Thr Leu Asp
1              5              10              15
Asn Glu Leu Leu Asp Glu Leu Ser His Ser Pro Glu Met Gln Gln Thr
      20              25              30
Trp Glu Ser Tyr His Leu Ile Arg Asp Thr Leu Arg Gly Asp Thr Ser
      35              40              45

```

Glu Val Leu His Phe Asp Ile Ser Ala Arg Val Met Ala Ala Ile Glu
 50 55 60
 Asn Glu Pro Val His Gln Thr Thr Pro Leu Ile Pro Glu Ala Gln Pro
 65 70 75 80
 Ala Pro His Gln Trp Gln Lys Met Pro Phe Trp His Lys Val Arg Pro
 85 90 95
 Trp Ala Ser Gln Leu Thr Gln Met Gly Val Ala Ala Cys Val Ser Leu
 100 105 110
 Ala Val Ile Val Gly Val Gln His Tyr Asn Thr Gln Ser Glu Ala Asn
 115 120 125
 Gln Gln Pro Glu Ala Pro Val Phe Asn Thr Leu Pro Met Met Gly Lys
 130 135 140
 Ala Ser Pro Val Ser Leu Gly Val Pro Ala Asp Ala Ser Ala Ser Gly
 145 150 155 160
 Gly Gln Gln Gln Gln Val Gln Glu Gln Arg Arg Ile Asn Ala Met
 165 170 175
 Leu Gln Asp Tyr Glu Leu Gln Arg Arg Leu His Ser Glu Gln Leu Gln
 180 185 190
 Phe Glu Gln Ala Gln Thr Gln Gln Ala Ala Val Gln Val Pro Gly Asn
 195 200 205
 Gln Thr Leu Gly Thr Gln Ser Gln
 210 215

<210> 6085

<211> 544

<212> PRT

<213> Enterobacter cloacae

<400> 6085

Leu Phe Asn Tyr Met Lys Asn Ile Arg Asn Phe Ser Ile Ile Ala His
 1 5 10 15
 Ile Asp His Gly Lys Ser Thr Leu Ser Asp Arg Ile Ile Gln Ile Cys
 20 25 30
 Gly Gly Leu Ser Asp Arg Glu Met Ala Ala Gln Val Leu Asp Ser Met
 35 40 45
 Asp Leu Glu Arg Glu Arg Gly Ile Thr Ile Lys Ala Gln Ser Val Thr
 50 55 60
 Leu Asp Tyr Lys Ala Ser Asp Gly Glu Thr Tyr Gln Leu Asn Phe Ile
 65 70 75 80
 Asp Thr Pro Gly His Val Asp Phe Ser Tyr Glu Val Ser Arg Ser Leu
 85 90 95
 Ala Ala Cys Glu Gly Ala Leu Leu Val Val Asp Ala Gly Gln Gly Val
 100 105 110
 Glu Ala Gln Thr Leu Ala Asn Cys Tyr Thr Ala Met Glu Met Asp Leu
 115 120 125
 Glu Val Val Pro Val Leu Asn Lys Ile Asp Leu Pro Ala Ala Asp Pro
 130 135 140
 Glu Arg Val Ala Glu Glu Ile Glu Asp Ile Val Gly Ile Asp Ala Thr
 145 150 155 160
 Asp Ala Val Arg Cys Ser Ala Lys Thr Gly Val Gly Val Pro Asp Val
 165 170 175
 Leu Glu Arg Leu Val Arg Asp Ile Pro Pro Pro Glu Gly Asp Pro Asp
 180 185 190
 Ala Pro Leu Gln Ala Leu Ile Ile Asp Ser Trp Phe Asp Asn Tyr Leu
 195 200 205
 Gly Val Val Ser Leu Val Arg Ile Lys Asn Gly Thr Met Arg Lys Gly
 210 215 220
 Asp Lys Ile Lys Val Met Ser Thr Gly Gln Val Tyr Asn Ala Asp Arg
 225 230 235 240
 Leu Gly Ile Phe Thr Pro Lys Gln Val Asp Arg Thr Glu Leu Lys Cys
 245 250 255

Gly Glu Val Gly Trp Leu Val Cys Ala Ile Lys Asp Ile Leu Gly Ala
 260 265 270
 Pro Val Gly Asp Thr Leu Thr Gly Ala Arg Asn Pro Ala Asp Lys Ala
 275 280 285
 Leu Pro Gly Phe Lys Lys Val Lys Pro Gln Val Tyr Ala Gly Leu Phe
 290 295 300
 Pro Val Ser Ser Asp Asp Tyr Glu Asn Phe Arg Asp Ala Leu Gly Lys
 305 310 315 320
 Leu Ser Leu Asn Asp Ala Ser Leu Phe Tyr Glu Pro Glu Ser Ser Thr
 325 330 335
 Ala Leu Gly Phe Gly Phe Arg Cys Gly Phe Leu Gly Leu Leu His Met
 340 345 350
 Glu Ile Ile Gln Glu Arg Leu Glu Arg Glu Tyr Asp Leu Asp Leu Ile
 355 360 365
 Thr Thr Ala Pro Thr Val Val Tyr Glu Val Glu Thr Thr Ser Lys Glu
 370 375 380
 Val Ile Tyr Val Asp Ser Pro Ser Lys Leu Pro Pro Leu Asn Asn Ile
 385 390 395 400
 Gln Glu Leu Arg Glu Pro Ile Ala Glu Cys His Met Leu Leu Pro Gln
 405 410 415
 Glu Phe Leu Gly Asn Val Ile Thr Leu Cys Ile Glu Lys Arg Gly Val
 420 425 430
 Gln Thr Asn Met Val Tyr His Gly Asn Gln Val Ala Leu Thr Tyr Glu
 435 440 445
 Ile Pro Met Ala Glu Val Val Leu Asp Phe Phe Asp Arg Leu Lys Ser
 450 455 460
 Thr Ser Arg Gly Tyr Ala Ser Leu Asp Tyr Asn Phe Lys Arg Phe Gln
 465 470 475 480
 Ala Ser Asn Met Val Arg Val Asp Val Leu Ile Asn Gly Glu Arg Val
 485 490 495
 Asp Ala Leu Ala Leu Ile Thr His Asn Asp Asn Ala Pro Tyr Arg Gly
 500 505 510
 Arg Glu Leu Val Glu Lys Met Lys Asp Leu Ile Pro Arg Gln Gln Phe
 515 520 525
 Asp Ile Ala Ser Leu His Thr Arg Leu Ala Gly Ser Ala Leu Arg Tyr
 530 535 540

<210> 6086

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 6086

Ile Gln Gly Cys Ala Met Ile Lys Glu Trp Ala Thr Val Val Ser Trp
 1 5 10 15
 Gln Asp Gly Val Ala Leu Val Ser Cys Asp Val Lys Ala Ser Cys Ser
 20 25 30
 Ser Cys Ala Ser Arg Ala Gly Cys Gly Ser Arg Val Leu Asn Lys Leu
 35 40 45
 Gly Pro Gln Thr Ser His Thr Ile Thr Val Pro Ser Ala Gln Pro Leu
 50 55 60
 Val Ala Gly Gln Lys Val Glu Leu Gly Ile Ala Glu Gly Ser Leu Leu
 65 70 75 80
 Thr Ser Ala Met Leu Val Tyr Leu Ser Pro Leu Ala Gly Leu Phe Val
 85 90 95
 Met Gly Gly Val Phe Gln Met Leu Phe Gly Thr Asp Leu Ala Ala Met
 100 105 110
 Cys Gly Ala Ala Leu Gly Gly Val Gly Gly Phe Trp Leu Ala Lys Gly
 115 120 125
 Val Ser Pro Arg Leu Ala Ala Arg Glu Ala Trp Gln Pro Val Ile Leu
 130 135 140

Ser Val Ala Leu Ala Pro Asp Gln Leu Arg Val Glu Thr Leu Ser Ser
 145 150 155 160
 Lys Ala Arg

<210> 6087

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 6087

Ala Gly Pro Asn Pro Ala Gly Cys Cys Ala Gly Ala Arg Lys Pro Asn
 1 5 10 15
 Phe Arg Asn Ala Ile Ala Val Met Lys Gln Leu Trp Phe Ala Met Ser
 20 25 30
 Leu Met Ala Gly Ser Leu Phe Phe Ser Ala Asn Ala Ser Ala Asp Val
 35 40 45
 Ser Ser Gly Ala Leu Leu Gln Gln Met Asn Leu Ala Ser Gln Ser Leu
 50 55 60
 Asn Tyr Glu Leu Ala Phe Ile Ser Ile Asn Lys Gln Gly Val Glu Ser
 65 70 75 80
 Leu Arg Tyr Arg His Ala Arg Leu Asp Asn Gln Pro Leu Ala Gln Leu
 85 90 95
 Leu Gln Met Asp Gly Pro Arg Arg Glu Val Val Gln Arg Gly Asn Glu
 100 105 110
 Ile Ser Tyr Phe Glu Pro Gly Leu Glu Pro Phe Thr Leu Asn Gly Asp
 115 120 125
 Tyr Ile Val Asp Ser Leu Pro Ser Leu Ile Tyr Thr Asp Phe Lys Arg
 130 135 140
 Leu Ala Pro Tyr Tyr Asp Phe Ile Ser Val Gly Arg Thr Arg Ile Ala
 145 150 155 160
 Asp Arg Leu Cys Glu Val Ile Arg Val Val Ala Arg Asp Gly Thr Arg
 165 170 175
 Tyr Ser Tyr Ile Val Trp Ile Asp Ala Glu Thr Lys Leu Pro Met Arg
 180 185 190
 Val Asp Leu Leu Asp Arg Asp Gly Glu Thr Leu Glu Gln Phe Arg Val
 195 200 205
 Ile Ser Phe Asp Val Asn Ser Gln Val Gly Asn Ser Met Gln Tyr Leu
 210 215 220
 Ala Lys Ala Ser Leu Pro Pro Leu Leu Ser Val Pro Ala Gly Asp Ser
 225 230 235 240
 Val Asn Phe Asn Trp Val Pro Ser Trp Ile Pro Gln Gly Phe Ser Glu
 245 250 255
 Val Ser Ser Ser Arg Arg Gln Leu Pro Thr Ile Glu Thr Pro Val Glu
 260 265 270
 Ser Arg Leu Tyr Ser Asp Gly Leu Phe Ser Phe Ser Val Asn Ile Asn
 275 280 285
 Arg Ala Thr Ala Asn Ser Ser Glu Gln Met Leu Arg Thr Gly Arg Arg
 290 295 300
 Thr Val Ser Thr Thr Val Arg Asp Asn Ala Glu Ile Thr Ile Val Gly
 305 310 315 320
 Glu Leu Pro Pro Pro Thr Ala Lys Arg Ile Ser Asp Ser Ile Lys Phe
 325 330 335
 Arg Ala Ala Gln
 340

<210> 6088

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6088

Arg Leu Ser Leu Leu Val Gly Arg His Leu Lys Ile Tyr Phe Val Phe
 1 5 10 15
 Arg Leu Gln Gln Asn Ala Phe Leu His Thr Gly Leu His Met Arg Leu
 20 25 30
 Arg Lys Leu Lys Leu Lys Asn Phe Arg Gly Tyr Arg Asn Ser Thr Glu
 35 40 45
 Ile Ile Ile Asp Glu Ser Met Thr Gly Ile Val Gly Arg Asn Asp Phe
 50 55 60
 Gly Lys Ser Thr Leu Leu Glu Ala Leu Ala Ile Phe Phe Glu Thr Glu
 65 70 75 80

<210> 6089

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6089

Asp Ile Thr Ser Glu Asn Leu Asp Ala Arg Leu Glu Arg Thr Arg Val
 1 5 10 15
 Pro Ile Glu Leu Glu Gln Leu Val Ile Ser Phe Asn His Met Ile Gly
 20 25 30
 Lys Ile Glu Asp Val Phe Thr Arg Gln Ala Asn Phe Ser Ala Asp Ile
 35 40 45
 Ala His Glu Ile Arg Thr Pro Ile Thr Asn Leu Val Thr Gln Thr Asp
 50 55 60
 Ile Ala Leu Ser Gln Asp Arg Thr Gln Arg Glu Leu Glu Asp Val Leu
 65 70 75 80
 Tyr Ser Ser Leu Glu Glu Tyr Asn Arg Met Thr Lys Met Val Ser Asp
 85 90 95
 Met Leu Phe Leu Ala Gln Ala Asp Asn Asn Gln Leu Ile Pro Asp Arg
 100 105 110
 Val Met Phe Asp Leu Arg Ala Glu Val Met Lys Val Phe Glu Phe Phe
 115 120 125
 Glu Ala Trp Ala Glu Glu Arg Asn Ile Thr Leu Lys Phe Asn Gly Met
 130 135 140
 Pro Cys Leu Val Glu Gly Asp Pro Gln Met Phe Arg Arg Ala Ile Asn
 145 150 155 160
 Asn Leu Leu Ser Asn Ala Leu Arg Tyr Thr Pro Glu Gly Gln Ala Ile
 165 170 175
 Thr Val Ser Ile Arg Glu Gln Glu Ser Phe Phe Asp Leu Val Ile Glu
 180 185 190
 Asn Pro Gly Lys Pro Ile Pro Glu Glu His Leu Ser Arg Leu Phe Asp
 195 200 205
 Arg Phe Tyr Arg Val Asp Pro Ser Arg Gln Arg Lys Gly Glu Gly Ser
 210 215 220
 Gly Ile Gly Leu Ala Ile Val Lys Ser Ile Val Glu Ala His His Gly
 225 230 235 240
 Arg Val Gln Val Glu Ser Asp Val His Ser Thr Arg Phe Ile Leu Ser
 245 250 255
 Val Pro Arg Leu Glu Lys Met Ile Pro Asp Thr Gln Cys Trp Glu
 260 265 270

<210> 6090

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6090

Pro Asp Ile Trp Gln His Leu Cys Pro Leu Gln Gly His Phe Tyr Gln
 1 5 10 15
 Ile Leu Leu Gln Leu Thr Gly Ile Asn Ala Lys Arg Ile Phe Phe Met
 20 25 30
 Lys Ala Arg Asn Thr Leu Phe Ala Val Leu Met Leu Ser Leu Pro Ala
 35 40 45
 Ile Ser Ala Glu His Ser Glu Met Lys Met Thr Asp Met Ser Thr Ser
 50 55 60
 Ala Ser Ser Gln Glu Tyr Met Ala Gly Met Lys Asp Met His Asp Lys
 65 70 75 80
 Met Met Ala Ala Val Asn Glu Ser Asp Pro Asp Lys Ala Phe Ala Lys
 85 90 95
 Gly Met Val Ala His His Glu Gly Ala Ile Ala Met Ala Glu Thr Glu
 100 105 110
 Leu Lys Tyr Gly Lys Asp Pro Lys Met Arg Lys Leu Ala Gln Asp Ile
 115 120 125
 Ile Lys Ala Gln Lys Gly Glu Ile Glu Gln Met Asn Lys Trp Leu Asp
 130 135 140
 Ser Gln Lys
 145

<210> 6091

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 6091

Phe Arg Thr Pro Ser Ala Gly Asn Lys Asp Leu Asn Asp Lys Asp Val
 1 5 10 15
 Ile Ser Leu Ser Cys Ser Lys Gln Lys Pro Phe Asp Ile Ile Ser Ala
 20 25 30
 Thr Tyr Gln Glu Gly Trp Ile Ala Leu Ser Ile Ser Gly Val Ser Gly
 35 40 45
 Arg Gln Glu Met Asn Ile Gln Ser Pro Pro Gly Glu Ile Asn Thr Ser
 50 55 60
 Glu Pro Val Ser Val Met Glu Leu Lys Thr Pro Val Val Leu Pro Arg
 65 70 75 80
 Thr Ser Leu Ile Lys Lys Trp Arg Val Ile Met Lys Asn Ile Val Leu
 85 90 95
 Ala Ser Leu Leu Gly Phe Gly Leu Ile Ser Ser Ala Trp Ala Thr Glu
 100 105 110
 Thr Val Asn Ile His Glu Arg Val Asn Asn Ala Gln Ala Pro Ala His
 115 120 125
 Gln Met Gln Ser Ala Ala Pro Val Gly Ile Gln Gly Thr Ala Pro
 130 135 140
 Arg Met Ala Gly Met Asp Gln His Glu Gln Ala Ile Ile Ala His Glu
 145 150 155 160
 Thr Met Thr Asn Gly Ser Ala Asp Ala His Gln Lys Met Val Glu Ser
 165 170 175
 His Gln Arg Met Met Gly Ser Gln Thr Val Ser Pro Thr Gly Pro Ser
 180 185 190
 Lys Ser Leu Ala Ala Met Asn Glu His Glu Arg Ala Ala Val Ala His
 195 200 205
 Glu Phe Met Asn Asn Gly Gln Ser Gly Pro His Gln Ala Met Ala Glu
 210 215 220
 Ala His Arg Arg Met Leu Ser Ala Gly
 225 230

<210> 6092

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 6092

```

Leu Gly Arg Val Ala Cys Gly Leu Leu Leu Leu Ala Gly Cys Arg Cys
1      5      10      15
Cys Val Gly Phe Pro Gly Gly Ala Ala Leu Arg Leu Ala Val Arg Val
      20      25      30
Arg Phe Cys Arg Cys Phe Ala Gly Arg Leu Leu Arg Ala Leu Leu Pro
      35      40      45
Leu Leu Pro Ser Leu Ser Val Gly Ala Gly Gly Leu Ala Pro Phe
      50      55      60
Phe Phe Ser Ala Cys Ala Leu Pro Phe Phe Leu Pro Ser Ser Ser Phe
65      70      75      80
Pro Ser Leu Pro Tyr Ser Val Tyr Thr Ile Asp Glu His Leu Asp Met
      85      90      95
Leu Met Val Cys His His Leu Asp Pro Asp Ile Ala Glu Asp Val Ala
      100     105     110
Phe Ala Glu Ser Arg Ile Arg Arg Glu Thr Ile Ala Ala Glu Asp Val
      115     120     125
Leu His Asp Ile
      130

```

<210> 6093

<211> 256

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(45)

<220>

<221>UNSURE

<222>(46)

<220>

<221>UNSURE

<222>(47)

<220>

<221>UNSURE

<222>(48)

<220>

<221>UNSURE

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<221>UNSURE

<222>(55)

<220>

<221>UNSURE

<222>(56)

<220>

<221>UNSURE

<222>(57)

<220>

<221>UNSURE

<222>(58)

<400> 6093

```

Arg Tyr Arg Thr Pro Leu Pro Ala Leu Pro Arg Thr Tyr Gln Tyr Ala
1      5      10
Arg Pro Leu Phe Leu His Ala Gly Arg Thr Gly Asp Gln Arg Thr Ser
      20      25      30
Glu Thr Ile Lys Arg Gly Val Arg Gly Arg Lys Arg Xaa Xaa Xaa Xaa
      35      40      45
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Ala Ala Pro Gly Ser
      50      55      60
Arg Ser Met Gln Glu Trp Arg Pro Ala Arg Arg Arg Ala His Arg
      65      70      75      80
Ala Arg Phe Val Val Gln Thr Tyr Val Gly Pro Phe Glu Phe Gly Leu
      85      90      95
Asp Ser Val Thr Leu Leu Pro Tyr Ser Cys Thr Glu Ser Ser Asp Met
      100      105      110
Glu Asn Asn Leu Glu Asn Leu Thr Ile Gly Val Phe Ala Lys Ala Ala
      115      120      125
Gly Val Asn Val Glu Thr Ile Arg Phe Tyr Gln Arg Lys Gly Leu Leu
      130      135      140
Arg Glu Pro Asp Lys Pro Tyr Gly Ser Ile Arg Arg Tyr Gly Glu Ala
      145      150      155      160
Asp Val Val Arg Val Lys Phe Val Lys Ser Ala Gln Arg Leu Gly Phe
      165      170      175
Ser Leu Asp Glu Ile Ala Glu Leu Leu Arg Leu Asp Asp Gly Thr His
      180      185      190
Cys Glu Glu Ala Ser Ser Leu Ala Glu His Lys Leu Lys Asp Val Arg
      195      200      205
Glu Lys Met Ala Asp Leu Ala Arg Met Glu Thr Val Leu Ser Glu Leu
      210      215      220
Val Cys Ala Cys His Ala Arg Lys Gly Asn Val Ser Cys Pro Leu Ile
      225      230      235      240
Ala Ser Leu Gln Gly Glu Ala Gly Leu Ala Arg Ser Ala Met Pro
      245      250      255

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<210> 6094

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 6094
 Ala Phe Ile Arg Arg Thr Ile Met Glu Asn Ile Ala Leu Ile Gly Ile
 1 5 10 15
 Asp Leu Gly Lys Asn Ser Phe His Ile His Cys Gln Asp Arg Arg Gly
 20 25 30
 Lys Ala Val Tyr Arg Lys Lys Phe Thr Arg Pro Lys Leu Ile Glu Phe
 35 40 45
 Leu Ala Thr Cys Pro Ala Thr Thr Ile Ala Met Glu Ala Cys Gly Gly
 50 55 60
 Ser His Phe Met Ala Arg Lys Leu Glu Glu Leu Gly His Phe Pro Lys
 65 70 75 80
 Leu Ile Ser Pro Gln Phe Val Arg Pro Phe Val Asn Tyr Ile Lys Asn
 85 90 95
 Asp Phe Val Asp Ala Glu Ala Ile Cys Glu Ala Ala Ser Arg Pro Ser
 100 105 110
 Met Arg Phe Val His
 115

<210> 6095
 <211> 1074
 <212> FRT
 <213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(1060)

<220>
 <221>UNSURE
 <222>(1061)

<220>
 <221>UNSURE
 <222>(1062)

<220>
 <221>UNSURE
 <222>(1063)

<220>
 <221>UNSURE
 <222>(1064)

<220>
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 <222>(1065)

<220>
 <221>UNSURE
 <222>(1066)

<220>
 <221>UNSURE
 <222>(1067)

<220>
 <221>UNSURE
 <222>(1068)

<220>
 <221>UNSURE

<222>(1069)

<220>

<221>UNSURE

<222>(1070)

<220>

<221>UNSURE

<222>(1071)

<220>

<221>UNSURE

<222>(1072)

<400> 6095

```

Pro Lys Ser Arg Ile Lys Met Tyr Leu Lys Ser Asn Ile Gly Gln Leu
1          5          10          15
Met Ser Ile Ile Thr Asn Leu Arg Phe Asn Arg His Ile Asn Val Thr
          20          25          30
Val Leu Arg Cys Pro Ile Ile Tyr Asn Ile Ser Tyr Gly Trp Lys Asn
          35          40          45
Val Thr Lys Cys Pro Ser Gly Arg Glu Ala Asp Met Pro Val Asp Phe
          50          55          60
Leu Thr Thr Glu Gln Thr Glu Ser Tyr Gly Arg Phe Thr Gly Glu Pro
65          70          75          80
Asp Glu Leu Gln Leu Ala Arg Tyr Phe His Leu Asp Glu Ala Asp Lys
          85          90          95
Glu Phe Ile Gly Lys Ser Arg Gly Asp His Asn Arg Leu Gly Ile Ala
          100          105          110
Leu Gln Ile Gly Cys Val Arg Phe Leu Gly Thr Phe Leu Thr Asp Met
          115          120          125
Asn His Ile Pro Ser Gly Val Arg His Phe Thr Ala Arg Gln Leu Gly
          130          135          140
Ile Arg Asp Ile Thr Val Leu Ala Glu Tyr Gly Gln Arg Glu Asn Thr
145          150          155          160
Arg Arg Glu His Ala Ala Leu Ile Arg Gln His Tyr Gln Tyr Arg Glu
          165          170          175
Phe Ala Trp Pro Trp Thr Phe Arg Leu Thr Arg Leu Leu Tyr Thr Arg
          180          185          190
Ser Trp Ile Ser Asn Glu Arg Pro Gly Leu Leu Phe Asp Leu Ala Thr
          195          200          205
Gly Trp Leu Met Gln His Arg Ile Ile Leu Pro Gly Ala Thr Thr Leu
          210          215          220
Thr Arg Leu Ile Ser Glu Val Arg Glu Lys Ala Thr Leu Arg Leu Trp
225          230          235          240
Asn Lys Leu Ala Leu Ile Pro Ser Ala Glu Gln Arg Ser Gln Leu Glu
          245          250          255
Met Leu Leu Gly Pro Thr Asp Cys Ser Arg Leu Ser Leu Leu Glu Ser
          260          265          270
Leu Lys Lys Gly Pro Val Thr Ile Ser Gly Pro Ala Phe Asn Glu Ala
          275          280          285
Ile Glu Arg Trp Lys Thr Leu Asn Asp Phe Gly Leu His Ala Glu Asn
          290          295          300
Leu Ser Thr Leu Pro Ala Val Arg Leu Lys Asn Leu Ala Arg Tyr Ala
305          310          315          320
Gly Met Thr Ser Val Phe Asn Ile Ala Arg Met Ser Pro Gln Lys Arg
          325          330          335
Met Ala Val Leu Val Ala Phe Val Leu Ala Trp Glu Thr Leu Ala Leu
          340          345          350
Asp Asp Ala Leu Asp Val Leu Asp Ala Met Leu Ala Val Ile Ile Arg
          355          360          365

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Asp Ala Arg Lys Ile Gly Gln Lys Lys Arg Leu Arg Ser Leu Lys Asp
 370 375 380
 Leu Asp Lys Ser Ala Leu Ala Leu Ala Ser Ala Cys Ser Tyr Leu Leu
 385 390 395 400
 Lys Glu Glu Thr Pro Asp Glu Ser Ile Arg Ala Glu Val Phe Ser Tyr
 405 410 415
 Ile Pro Arg Gln Lys Leu Ala Glu Ile Ile Thr Leu Val Arg Glu Ile
 420 425 430
 Ala Arg Pro Ser Asp Asp Asn Phe His Glu Glu Met Val Glu Gln Tyr
 435 440 445
 Gly Arg Val Arg Arg Phe Leu Pro His Leu Leu Asn Thr Val Lys Phe
 450 455 460
 Ser Ser Ala Pro Ala Gly Val Thr Thr Leu Asn Ala Cys Asp Tyr Leu
 465 470 475 480
 Ser Arg Glu Phe Ser Ser Arg Arg Gln Phe Phe Asp Asp Ala Pro Thr
 485 490 495
 Glu Ile Ile Ser Arg Ser Trp Lys Arg Leu Val Ile Asn Lys Glu Lys
 500 505 510
 His Ile Thr Arg Arg Gly Tyr Thr Leu Cys Phe Leu Ser Lys Leu Gln
 515 520 525
 Asp Ser Leu Arg Arg Arg Asp Val Tyr Val Thr Gly Ser Asn Arg Trp
 530 535 540
 Gly Asp Pro Arg Ala Arg Leu Leu Gln Gly Ala Asp Trp Gln Ala Asn
 545 550 555 560
 Arg Ile Lys Val Tyr Arg Ser Leu Gly His Pro Thr Asp Pro Gln Glu
 565 570 575
 Ala Ile Lys Ser Leu Gly His Gln Leu Asp Ser Arg Tyr Arg Gln Val
 580 585 590
 Ala Ala Arg Leu Cys Glu Asn Glu Ala Val Glu Leu Asp Val Ser Gly
 595 600 605
 Pro Lys Pro Arg Leu Thr Ile Ser Pro Leu Ala Ser Leu Asp Glu Pro
 610 615 620
 Asp Ser Leu Lys Arg Leu Ser Lys Met Ile Ser Asp Leu Leu Pro Pro
 625 630 635 640
 Val Asp Leu Thr Glu Leu Leu Leu Glu Ile Asn Ala His Thr Gly Phe
 645 650 655
 Ala Asp Glu Phe Phe His Ala Ser Glu Ala Ser Ala Arg Val Asp Asp
 660 665 670
 Leu Pro Val Ser Ile Ser Ala Val Leu Met Ala Glu Ala Cys Asn Ile
 675 680 685
 Gly Leu Glu Pro Leu Ile Arg Ser Asn Val Pro Ala Leu Thr Arg His
 690 695 700
 Arg Leu Asn Trp Thr Lys Ala Asn Tyr Leu Arg Ala Glu Thr Ile Thr
 705 710 715 720
 Ser Ala Asn Ala Arg Leu Val Asp Phe Gln Ala Thr Leu Pro Leu Ala
 725 730 735
 Gln Ile Trp Gly Gly Glu Val Ala Ser Ala Asp Gly Met Arg Phe
 740 745 750
 Val Thr Pro Val Arg Thr Ile Asn Ala Gly Pro Asn Arg Lys Tyr Phe
 755 760 765
 Gly Asn Asn Arg Gly Ile Thr Trp Tyr Asn Phe Val Ser Asp Gln Tyr
 770 775 780
 Ser Gly Phe His Gly Ile Val Ile Pro Gly Thr Leu Arg Asp Ser Ile
 785 790 795 800
 Phe Val Leu Glu Gly Leu Leu Glu Gln Glu Thr Gly Leu Asn Pro Thr
 805 810 815
 Glu Ile Met Thr Asp Thr Ala Gly Ala Ser Glu Leu Val Phe Gly Leu
 820 825 830
 Phe Trp Leu Leu Gly Tyr Gln Phe Ser Pro Arg Leu Ala Asp Ala Gly
 835 840 845
 Ala Ser Val Phe Trp Arg Met Asp His Asp Ala Asp Tyr Gly Val Leu

850 855 860
 Asn Asp Ile Ala Arg Gly Gln Ser Asp Pro Arg Lys Ile Val Leu Gln
 865 870 875 880
 Trp Asp Glu Met Ile Arg Thr Ala Gly Ser Leu Lys Leu Gly Lys Val
 885 890 895
 Gln Val Ser Val Leu Val Arg Ser Leu Leu Lys Ser Glu Arg Pro Ser
 900 905 910
 Gly Leu Thr Gln Ala Ile Ile Glu Val Gly Arg Ile Asn Lys Thr Leu
 915 920 925
 Tyr Leu Leu Asn Tyr Ile Asp Asp Glu Asp Tyr Arg Arg Arg Ile Leu
 930 935 940
 Thr Gln Leu Asn Arg Gly Glu Ser Arg His Ala Val Ala Arg Ala Ile
 945 950 955 960
 Cys His Gly Gln Lys Gly Glu Ile Arg Lys Arg Tyr Thr Asp Gly Gln
 965 970 975
 Glu Asp Gln Leu Gly Thr Leu Gly Leu Val Thr Asn Ala Val Val Leu
 980 985 990
 Trp Asn Thr Ile Tyr Met Gln Ala Ala Leu Asp His Leu Arg Ala Gln
 995 1000 1005
 Gly Glu Thr Leu Asn Asp Glu Asp Ile Ala Arg Leu Ser Pro Leu Cys
 1010 1015 1020
 His Gly His Ile Asn Met Leu Gly His Tyr Ser Phe Thr Leu Ala Glu
 1025 1030 1035 1040
 Leu Val Thr Lys Gly His Leu Arg Pro Leu Lys Glu Ala Ser Glu Ala
 1045 1050 1055
 Glu Asn Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1060 1065 1070
 Tyr

<210> 6096

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6096

Arg Asp Gln Arg Ala Gly Asn Ile Pro Leu Ser Cys Met Ala Gly Ala
 1 5 10 15
 His Glu Phe Arg Gln His Gly Phe His Ala Arg Gln Val Gly His Leu
 20 25 30
 Leu Ala His Val Leu Glu Leu Val Phe Gly Gln Ala Ala Gly Leu Leu
 35 40 45
 Ala Val Gly Ala Ile Val Glu Pro Gln Gln Leu Gly Asn Leu Val Gln
 50 55 60
 Thr Glu Pro Gln Pro Leu Cys Arg Phe His Glu Phe His Pro Asn His
 65 70 75 80
 Val Arg Leu Pro Ile Ala Ala Asp Ala Ala Val Arg Leu Val Arg Phe
 85 90 95
 Pro Gln Gln Ala Leu Ala Leu Ile Glu Ala Asp Cys Leu His Val Asp
 100 105 110
 Pro Gly Arg Leu Gly Lys Asn Ala Asn Gly Gln Val Phe Gln Ile Ile
 115 120 125
 Phe His Ile Ala
 130

<210> 6097

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 6097

Arg Ala Arg Phe Phe Arg Arg Tnr Ala Gly Ser Val Leu Arg Phe Ser
 1 5 10 15
 Ala Cys Arg Pro Lys Ser Phe Arg Val Phe Gln Arg Ser Ile Ala Ser
 20 25 30
 Leu Asn Ala Gly Pro Leu Met Val Thr Gly Pro Phe Phe Ser Asp Ser
 35 40 45
 Ser Lys Asp Arg Arg Leu Gln Ser Val Gly Pro Ser Ser Ile Ser Ser
 50 55 60
 Cys Glu Arg Cys Ser Ala Asp Gly Ile Ser Ala Ser Leu Phe His Arg
 65 70 75 80
 Arg Asn Val Ala Phe Ser Leu Thr Ser Glu Ile Asn Arg Val Ser Val
 85 90 95
 Val Ala Pro Gly Arg Ile Ile Arg Cys Ile Ser His Pro Val Ala
 100 105 110
 Arg Ser Lys Ser Arg Pro Gly Arg Ser Leu Leu Ile Gln Leu Arg Val
 115 120 125
 Tyr Lys Arg Arg Val Arg Arg Asn Val Gln Gly Gln Ala Asn Ser Arg
 130 135 140

Tyr
 145

<210> 6098

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 6098

Ile Ile Gly His Arg Lys Tnr Val Thr Leu Ile Cys Leu Leu Asn Arg
 1 5 10 15
 Lys Phe Val Ile Ile Asp Met Ser Cys Pro Ile Phe Asp Leu Arg Tyr
 20 25 30
 Ile Phe Met Arg Leu Phe Gly Tyr Ala Arg Val Ser Thr Ser Gln Gln
 35 40 45
 Ser Leu Asp Leu Gln Val Arg Ala Leu Lys Asp Ala Gly Val Lys Ala
 50 55 60
 Asn Arg Ile Phe Thr Asp Lys Ala Ser Gly Ser Ser Thr Asp Arg Glu
 65 70 75 80
 Gly Leu Asp Leu Leu Arg Met Lys Val Glu Glu Gly Asp Val Ile Leu
 85 90 95
 Val Lys Lys Leu Asp Arg Leu Gly Arg Asp Thr Ala Asp Met Ile Gln
 100 105 110
 Leu Ile Lys Glu Phe Asp Ala Gln Gly Val Ala Val Arg Phe Ile Asp
 115 120 125
 Asp Gly Ile Ser Thr Asp Gly Asp Met Gly Gln Met Val Val Thr Ile
 130 135 140
 Leu Ser Ala Val Ala Gln Ala Glu Arg Arg Arg Ile Leu Glu Arg Thr
 145 150 155 160
 Asn Glu Gly Arg Gln Glu Ala Lys Leu Lys Gly Ile Lys Phe Gly Gly
 165 170 175
 Pro Arg Gln Ala Tyr Arg Gly Gln Glu Arg Arg Ala Asp Ala Ser Ser
 180 185 190
 Glu Gly His Trp Cys Asn Gly Asn Cys Ser Ser Ala Gln Tyr Cys Pro
 195 200 205
 Leu His Gly Leu
 210

<210> 6099

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 6099

Gly Ile Ala Asp Leu Ala Arg Pro Ala Ser Pro Cys Ser Asp Ala Ile
 1 5 10 15
 Asn Gly Gln Glu Thr Phe Pro Phe Arg Ala Trp Gln Ala His Thr Ser
 20 25 30
 Ser Asp Ser Thr Val Ser Met Arg Ala Lys Ser Ala Ile Phe Ser Arg
 35 40 45
 Thr Ser Leu Ser Leu Cys Ser Ala Arg Leu Leu Ala Ser Ser Gln Trp
 50 55 60
 Val Pro Ser Ser Ser Arg Asn Ser Ser Ala Ile Ser Ser Arg Leu Asn
 65 70 75 80
 Pro Ser Arg Cys Ala Asp Phe Thr Asn Phe Thr Arg Thr Thr Ser Ala
 85 90 95
 Ser Pro

<210> 6100

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 6100

Leu Arg Leu Ala Asp Asn Pro Ser Ile Arg Leu Gln Ser Val Gln Gln
 1 5 10 15
 Val Phe Ser Ile Leu Asn Gln Glu Thr Glu Met Ser Tyr Ser Gly Gly
 20 25 30
 Arg Asp Asn Phe Ala Pro His Met Ala Leu Val Pro Met Val Ile Glu
 35 40 45
 Gln Thr Ser Arg Gly Glu Arg Ser Phe Asp Ile Tyr Ser Arg Leu Leu
 50 55 60
 Lys Glu Arg Val Ile Phe Leu Thr Gly Gln Val Glu Asp His Met Ala
 65 70 75 80
 Asn Leu Ile Val Ala Gln Met Leu Phe Leu Glu Ala Glu Asn Pro Glu
 85 90 95
 Lys Asp Ile Tyr Leu Tyr Ile Asn Ser Pro Gly Gly Val Ile Thr Ala
 100 105 110
 Gly Met Ser Ile Tyr Asp Thr Met Gln Phe Ile Lys Pro Asp Val Ser
 115 120 125
 Thr Ile Cys Met Gly Gln Ala Ala Ser Met Gly Ala Phe Leu Leu Thr
 130 135 140
 Ala Gly Ala Lys Gly Lys Arg Phe Cys Leu Pro Asn Ser Arg Val Met
 145 150 155 160
 Ile His Gln Pro Leu Gly Gly Tyr Gln Gly Gln Ala Thr Asp Ile Glu
 165 170 175
 Ile His Ala Arg Glu Ile Leu Lys Val Lys Ala Arg Met Asn Glu Leu
 180 185 190
 Met Ala Gln His Thr Gly Gln Pro Leu Glu Gln Ile Glu Arg Asp Thr
 195 200 205
 Glu Arg Asp Arg Phe Leu Ser Ala Pro Glu Ala Val Glu Tyr Gly Leu
 210 215 220
 Val Asp Ser Ile Leu Thr His Arg Asn
 225 230

<210> 6101

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 6101

Glu Trp His Leu Arg Arg His Val Arg His Ile Glu Leu Lys Lys Arg
 1 5 10 15

```

Phe Gly Leu Met Thr Asp Lys Arg Lys Asp Gly Ser Gly Lys Leu Leu
      20      25      30
Tyr Cys Ser Phe Cys Gly Lys Ser Gln His Glu Val Arg Lys Leu Ile
      35      40
Ala Gly Pro Ser Val Tyr Ile Cys Asp Glu Cys Val Asp Leu Cys Asn
      50      55      60
Asp Ile Ile Arg Glu Glu Ile Lys Glu Val Ala Pro His Arg Glu Arg
      65      70      75      80
Ser Ala Leu Pro Thr Pro His Glu Ile Arg His His Leu Asp Asp Tyr
      85      90      95
Val Ile Gly Gln Glu Gln Ala Lys Lys Val Leu Ala Val Ala Val Tyr
      100      105      110
Asn His Tyr Lys Arg Leu Arg Asn Gly Asp Thr Ser Asn Gly Val Glu
      115      120      125
Leu Gly Lys Ser Asn Ile Leu Leu Ile Gly Pro Thr Gly Ser Gly Lys
      130      135      140
Thr Leu Leu Ala Glu Thr Leu Ala Arg Leu Leu Asp Val Pro Phe Thr
      145      150      155      160
Met Ala Asp Ala Thr Thr Leu Thr Glu Ala Gly Tyr Val Gly Glu Asp
      165      170      175
Val Glu Asn Ile Ile Gln Lys Leu Leu Gln Lys Cys Asp Tyr Asp Val
      180      185      190
Gln Lys Ala Gln Arg Gly Ile Val Tyr Ile Asp Glu Ile Asp Lys Ile
      195      200      205
Ser Arg Lys Ser Asp Asn Pro Ser Ile Thr Arg Asp Val Ser Gly Glu
      210      215      220
Gly Val Gln Gln Ala Leu Leu Lys Leu Ile Glu Gly Thr Val Ala Ala
      225      230      235      240
Val Pro Pro Gln Gly Gly Arg Lys His Pro Gln Gln Glu Phe Leu Gln
      245      250      255      260
Val Asp Thr Ser Lys Ile Leu Phe Ile Cys Gly Gly Ala Phe Ala Gly
      265      270      275
Leu Asp Lys Val Ile Ser His Arg Val Glu Thr Gly Ser Gly Ile Gly
      280      285
Phe Gly Ala Thr Val Lys Ala Thr Ser Glu Lys Pro Asn Glu Gly Gln
      290      295      300
Leu Leu Ala Gln Val Glu Pro Glu Asp Leu Ile Lys Phe Gly Leu Ile
      305      310      315      320
Pro Glu Phe Ile Gly Arg Leu Pro Val Val Ala Thr Leu Asn Glu Leu
      325      330      335
Ser Glu Asp Ala Leu Ile Gln Ile Leu Lys Glu Pro Lys Asn Ala Leu
      340      345      350
Thr Lys Gln Tyr Gln Ala Leu Phe Asn Leu Glu Gly Val Glu Leu Glu
      355      360      365
Phe Arg Asp Glu Ala Leu Asp Ala Ile Ala Lys Lys Ala Met Ala Arg
      370      375      380
Lys Thr Gly Ala Arg Gly Leu Arg Ser Ile Val Glu Ala Ala Leu Leu
      385      390      395      400
Asp Thr Met Tyr Asp Leu Pro Ser Met Glu Asp Val Glu Lys Val Val
      405      410      415
Ile Asp Glu Ser Val Ile Gly Gly Gln Thr Lys Pro Leu Leu Ile Tyr
      420      425      430
Gly Lys Pro Glu Ala Gln Gln Ala Ser Gly Glu
      435      440

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<210> 6102

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 6102

Pro Val Tyr Leu Ala Asp Thr Lys Leu Arg Glu Ser Ser Met Asn Pro
 1 5 10 15
 Glu Arg Ser Glu Arg Ile Glu Ile Pro Val Leu Pro Leu Arg Asp Val
 20 25 30
 Val Val Tyr Pro His Met Val Ile Pro Leu Phe Val Gly Arg Glu Lys
 35 40 45
 Ser Ile Arg Cys Leu Glu Ala Ala Met Asp His Asp Lys Lys Ile Met
 50 55 60
 Leu Val Ala Gln Lys Glu Ala Ser Thr Asp Glu Pro Gly Val Asn Asp
 65 70 75 80
 Leu Phe Thr Val Gly Thr Val Ala Ser Ile Leu Gln Met Leu Lys Leu
 85 90 95
 Pro Asp Gly Thr Val Lys Val Leu Val Glu Gly Leu Gln Arg Ala Arg
 100 105 110
 Ile Thr Thr Leu Ser Asp Asp Gly Glu His Phe Ser Ala Lys Ala Glu
 115 120 125
 Tyr Leu Asp Ser Pro Glu Leu Asp Glu Arg Glu Gln Glu Val Leu Val
 130 135 140
 Arg Thr Ala Ile Ser Gln Phe Glu Gly Tyr Ile Lys Leu Asn Lys Lys
 145 150 155 160
 Ile Pro Pro Glu Val Leu Thr Ser Leu Asn Ser Ile Asp Asp Pro Ala
 165 170 175
 Arg Leu Ala Asp Thr Ile Ala Ala His Met Pro Leu Lys Leu Ala Asp
 180 185 190
 Lys Gln Ser Val Leu Glu Met Ser Asp Val Asn Glu Arg Leu Glu Tyr
 195 200 205
 Leu Met Ala Met Met Glu Ser Glu Ile Asp Leu Leu Gln Val Glu Lys
 210 215 220
 Arg Ile Arg Asn Arg Val Lys Lys Gln Met Glu Lys Ser Gln Arg Glu
 225 230 235 240
 Tyr Tyr Leu Asn Glu Gln Met Lys Ala Ile Gln Lys Glu Leu Gly Glu
 245 250 255
 Met Asp Asp Ala Pro Asp Glu Asn Glu Ala Leu Lys Arg Lys Ile Asp
 260 265 270
 Ala Ala Lys Met Pro Lys Glu Ala Lys Glu Lys Ala Glu Ala Glu Leu
 275 280 285
 Gln Lys Leu Lys Met Met Ser Pro Met Ser Ala Glu Ala Thr Val Val
 290 295 300
 Arg Gly Tyr Ile Glu Trp Met Val Gln Val Pro Trp Asn Ala Arg Ser
 305 310 315 320
 Lys Val Lys Lys Asp Leu Arg Gln Ala Gln Glu Ile Leu Asp Thr Asp
 325 330 335
 His Tyr Gly Leu Glu Arg Val Lys Asp Arg Ile Leu Glu Tyr Leu Ala
 340 345 350
 Val Gln Ser Arg Val Asn Lys Ile Lys Gly Pro Ile Leu Cys Leu Val
 355 360 365
 Gly Pro Pro Gly Val Gly Lys Thr Ser Leu Gly Gln Ser Ile Ala Lys
 370 375 380
 Ala Thr Gly Arg Lys Tyr Ile Arg Met Ala Leu Gly Gly Val Arg Asp
 385 390 395 400
 Glu Ala Glu Ile Arg Gly His Arg Arg Thr Tyr Ile Gly Ser Met Pro
 405 410 415
 Gly Lys Leu Ile Gln Lys Met Ala Lys Val Gly Val Lys Asn Pro Leu
 420 425 430
 Phe Leu Leu Asp Glu Ile Asp Lys Met Ser Ser Asp Met Arg Gly Asp
 435 440 445
 Pro Ala Ser Ala Leu Leu Glu Val Leu Asp Pro Glu Gln Asn Val Ala
 450 455 460
 Phe Ser Asp His Tyr Leu Glu Val Asp Tyr Asp Leu Ser Asp Val Met
 465 470 475 480
 Phe Val Ala Thr Ser Asn Ser Met Asn Ile Pro Ala Pro Leu Leu Asp

485 490 495
 Arg Met Glu Val Ile Arg Leu Ser Gly Tyr Thr Glu Asp Glu Lys Leu
 500 505 510
 Asn Ile Ala Lys Gln His Leu Leu Pro Lys Gln Ile Glu Arg Asn Ala
 515 520 525
 Leu Lys Ala Asn Glu Leu Thr Val Glu Asp Ser Ala Ile Val Gly Ile
 530 535 540
 Ile Arg Tyr Tyr Thr Arg Glu Ala Gly Gly Leu His His Gly Ala Gly
 545 550 555 560
 Arg Ile Arg Pro
 565

<210> 6103
 <211> 75
 <212> PRT
 <213> Enterobacter cloacae

<400> 6103
 Ile Ser Asn Gly Leu Val Trp Pro Pro Met Thr Asp Ser Ser Ile Thr
 1 5 10 15
 Thr Phe Ser Thr Ser Ser Ile Glu Gly Arg Ser Tyr Ile Val Ser Ser
 20 25 30
 Asn Ala Ala Ser Thr Ile Glu Arg Arg Pro Arg Ala Pro Val Leu Arg
 35 40 45
 Ala Ile Ala Phe Leu Ala Ile Ala Ser Asn Ala Ser Ser Arg Asn Ser
 50 55 60
 Ser Ser Thr Pro Ser Arg Leu Asn Ser Ala
 65 70 75

<210> 6104
 <211> 64
 <212> PRT
 <213> Enterobacter cloacae

<400> 6104
 Ile Asn Ala Ser Ser Leu Ser Ser Phe Arg Val Ala Thr Thr Gly Arg
 1 5 10 15
 Arg Pro Ile Asn Ser Gly Ile Lys Pro Asn Leu Ile Arg Ser Ser Gly
 20 25 30
 Ser Thr Cys Ala Ser Ser Trp Pro Ser Phe Gly Phe Ser Asp Val Ala
 35 40 45
 Phe Thr Val Ala Pro Lys Pro Met Pro Glu Pro Val Ser Thr Arg
 50 55 60

<210> 6105
 <211> 161
 <212> PRT
 <213> Enterobacter cloacae

<400> 6105
 Asp Asp Arg Gly Gly Pro Leu His Lys Arg Gly Leu Arg Pro Leu Gly
 1 5 10 15
 Ala Leu Pro Ala His Ala Thr Ser Val Leu Leu Asn Met Leu Leu Cys
 20 25 30
 Ser Arg Pro Gly Lys Pro Gly Phe Val Phe Cys Ala Phe Tyr Pro Leu
 35 40 45
 Phe Pro Gly Glu Arg Val Arg Val Arg Gly Ser Gly Arg Thr Glu Leu
 50 55 60
 His Ile Ala Pro Gly Gly Ile Asp Ser Leu Arg Ser Pro Cys Gly Gln
 65 70 75 80
 Pro Val Arg Tyr Ala Leu Ser Leu Ser Asn Trp Leu Arg Gln Leu Ser

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<210> 6106
<211> 373
<212> PRT
<213> Enterobacter cloacae
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400> 6106																
Glu	Lys	Thr	Ala	Val	Val	Pro	Gly	Ser	Asp	Val	Asn	Ser	Leu	Trp	Arg	
1				5				10					15			
Ser	Arg	Met	Val	Ala	Ser	Cys	Thr	Gly	Gln	Gly	Lys	His	Ile	Asn	Arg	
			20					25					30			
Ser	Thr	Arg	Arg	Gly	Gly	Ser	Asp	Ser	Gly	Ser	Asp	Phe	Phe	Thr	Thr	
			35					40				45				
Lys	Phe	Ser	Pro	Ser	Pro	Gln	Gln	Pro	Phe	Ser	Thr	Thr	Asp	Val	His	Asn
	50					55					60					
Gly	Ala	Arg	Ser	Arg	Cys	Ile	Ser	Ser	Ser	Gly	Asn	Ala	Ser	Asn	Gly	
65					70					75					80	
Leu	Gln	Gly	Ser	Gln	Pro	Ser	Asp	Val	Arg	Ala	His	Asn	Arg	Ala	Asp	
				85					90						95	
Ala	Gly	Ala	Cys	Asp	Glu	Tyr	Gln	Gln	Leu	Lys	Val	Leu	Ser	Met	Gly	
			100					105					110			
Arg	Gln	Lys	Ala	Val	Ile	Lys	Ala	Arg	Arg	Glu	Ala	Lys	Arg	Val	Leu	
			115				120					125				
Arg	Arg	Asp	Ser	Arg	Ser	His	Lys	Gln	Arg	Glu	Glu	Glu	Ser	Val	Thr	
						135				140						
Ser	Leu	Val	Gln	Met	Ser	Gly	Val	Glu	Ser	Ile	Gly	Met	Ala	Arg	Asp	
145					150					155						
Ser	Arg	Asp	Ala	Ser	Pro	Ile	Val	Ala	Arg	Asn	Glu	Ala	Gln	Ala	His	
				165					170					175		
Tyr	Leu	Asn	Ala	Ile	Glu	Ser	Lys	Gln	Leu	Ile	Phe	Ala	Thr	Gly	Glu	
			180					185					190			
Ala	Gly	Cys	Gly	Lys	Thr	Trp	Ile	Ser	Ala	Ala	Lys	Ala	Ala	Glu	Ala	
			195				200					205				
Leu	Ile	His	Lys	Asp	Val	Glu	Arg	Ile	Ile	Val	Thr	Arg	Pro	Val	Leu	
	210					215				220						
Gln	Ala	Asp	Glu	Asp	Leu	Gly	Phe	Leu	Pro	Gly	Asp	Ile	Ser	Glu	Lys	
225					230					235					240	
Phe	Ala	Pro	Tyr	Phe	Arg	Pro	Val	Tyr	Asp	Val	Leu	Val	Lys	Arg	Leu	
				245					250					255		
Gly	Ala	Ser	Phe	Met	Gln	Tyr	Cys	Leu	Arg	Pro	Glu	Ile	Gly	Lys	Val	
			260					265					270			
Glu	Ile	Ala	Pro	Phe	Ala	Tyr	Met	Arg	Gly	Arg	Thr	Phe	Glu	Asn	Ala	
			275				280					285				
Val	Val	Ile	Leu	Asp	Glu	Ala	Gln	Asn	Val	Thr	Ala	Ala	Gln	Met	Lys	
	290					295					300					
Met	Phe	Leu	Thr	Arg	Leu	Gly	Gly	Asn	Val	Thr	Val	Ile	Val	Asn	Gly	
305					310					315					320	
Asp	Ile	Thr	Gln	Cys	Asp	Leu	Pro	Ser	Gly	Val	Lys	Ser	Gly	Leu	Ser	
				325					330					335		
Asp	Ala	Met	Ser	Arg	Phe	Glu										

340 345 350
 Phe Thr Lys Glu Asp Cys Val Arg Ser Ala Leu Cys Gln Arg Thr Leu
 355 360 365
 Gln Ala Tyr Tyr
 370

<210> 6107
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 6107
 His Arg Gly Gly Leu Thr Arg Cys Ala Arg Pro Ala Gly Ser Leu Phe
 1 5 10 15
 Ala Thr Leu Ser Val Cys Pro Thr Gly Cys Ala Ser Cys Arg Thr Pro
 20 25 30
 Val Gly Gly Ser His Ser Pro Gln Arg Arg Thr Thr Cys Glu Lys Lys
 35 40 45
 Ala Arg Ile Phe Met Arg Ala Leu Leu Gln Ile Trp Arg
 50 55 60

<210> 6108
 <211> 90
 <212> PRT
 <213> Enterobacter cloacae

<400> 6108
 Arg Leu Val Ala Ala Gly Leu Ala Ala Gly Ala Ile Arg Ala Phe His
 1 5 10 15
 Glu Ala Gly Leu Trp Asn His Phe Gln Asp Val Ala Phe Asp Leu Ser
 20 25 30
 Asn Val Leu Ser Thr His Ser Leu Thr Gly Thr Leu Leu Glu Gly Ile
 35 40 45
 Phe Gly Tyr Gln Glu Thr Pro Ser Val Ser Glu Val Ala Met Tyr Phe
 50 55 60
 Ile Tyr Leu Val Pro Ala Leu Ile Leu Phe Ala Met Pro Pro Arg Thr
 65 70 75 80
 Gly Ser Gln Thr Ser Arg Val Ala Pro
 85 90

<210> 6109
 <211> 385
 <212> PRT
 <213> Enterobacter cloacae

<400> 6109
 Leu Gln His Thr Leu Lys Gly Arg Val Met Ala Ile Gln Phe Arg Arg
 1 5 10 15
 Ser Ala Leu Cys Ala Gly Ile Ala Ala Leu Phe Val Ser Ala Phe Ala
 20 25 30
 Ala Gln Ala Ala Asp Ile Pro Gln Val Lys Val Thr Val Asn Asp Lys
 35 40 45
 Gln Cys Gly Pro Met Thr Ile Thr Val Asn Ser Gly Lys Thr Gln Phe
 50 55 60
 Ile Ile Gln Asn His Ser Gln Lys Ala Leu Glu Trp Glu Ile Leu Lys
 65 70 75 80
 Gly Val Met Val Val Glu Glu Arg Glu Asn Ile Ala Pro Gly Phe Ser
 85 90 95
 Gln Lys Met Thr Ala Asn Leu Gln Pro Gly Glu Tyr Asp Met Thr Cys
 100 105 110
 Gly Leu Leu Thr Asn Pro Lys Gly Lys Leu Ile Val Lys Gly Ala Ala

```

      115              120              125
Thr Ala Asp Ala Ala Lys Gly Thr Ala Leu Leu Ser Leu Gly Asp Ala
130              135              140
Ile Thr Ala Tyr Lys Ala Tyr Val Thr Lys Glu Thr Ala Asp Leu Val
145              150              155              160
Ala Gly Thr Lys Ala Phe Thr Asp Ala Val Lys Ala Gly Asp Ile Glu
      165              170              175
Lys Ala Lys Ser Leu Tyr Ala Pro Thr Arg Gln His Tyr Glu Arg Ile
      180              185              190
Glu Pro Ile Ala Glu Leu Phe Ser Asp Leu Asp Gly Ser Ile Asp Ala
      195              200              205
Arg Glu Asp Asp Tyr Glu Gln Lys Ala Ala Asp Pro Lys Phe Thr Gly
210              215              220
Phe His Arg Leu Glu Lys Ala Leu Phe Gly Asp Asn Ser Thr Arg Gly
225              230              235              240
Met Glu Lys Tyr Ala Glu Gln Leu Asn Ser Asp Val Leu Glu Leu Gln
      245              250              255
Lys Arg Ile Ser Glu Leu Ala Phe Pro Pro Ser Lys Val Val Gly Gly
      260              265              270
Ala Ala Gly Leu Ile Glu Glu Val Ala Ala Ser Lys Ile Ser Gly Glu
      275              280              285
Glu Asp Arg Tyr Ser His Thr Asp Leu Trp Asp Phe Gln Ala Asn Val
290              295              300
Asp Gly Ala Gln Lys Ile Val Asp Leu Leu Arg Pro Gln Leu Gln Lys
305              310              315              320
Glu Asn Gly Glu Leu Leu Ala Lys Val Asp Ala Asn Phe Lys Lys Val
      325              330              335
Asp Ala Ile Leu Ala Lys Tyr Arg Thr Lys Asp Gly Phe Glu Thr Tyr
      340              345              350
Asp Lys Leu Thr Asp Ala Asp Arg Asn Ala Leu Lys Gly Pro Ile Thr
      355              360              365
Thr Leu Ala Glu Asp Leu Ser Leu Leu Arg Gly Val Leu Gly Leu Asp
      370              375              380

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385

<210> 6110

<211> 429

<212> PRT

<213> *Enterobacter cloacae*

<400> 6110

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Ala Met Asn Glu His Asp Glu Tyr Asp Val Ala Glu Pro Ser Arg Arg
1      5      10      15
Arg Leu Leu Lys Gly Val Gly Ala Leu Gly Gly Ala Phe Ala Leu Ala
      20      25      30
Gly Gly Cys Pro Val Ala His Ala Ala Lys Pro Gln Ser Ala Pro Gly
      35      40      45
Thr Leu Ser Pro Asp Ala Arg Met Glu Thr Gln Pro Phe Tyr Gly Glu
      50      55      60
His Gln Ala Gly Ile Leu Thr Pro Gln Gln Ala Ser Met Met Leu Val
65      70      75      80
Ala Phe Asp Ser Leu Ala Ser Asp Lys Ala Asp Leu Glu Arg Leu Phe
      85      90      95
Arg Leu Leu Thr Thr Arg Ile Ala Phe Leu Thr Ala Gly Gly Pro Ala
      100      105      110
Pro Glu Thr Pro Asn Pro Arg Leu Pro Pro Met Asp Ser Gly Ile Leu
      115      120      125
Gly Ala Phe Ile Ala Pro Asp Asn Leu Thr Ile Thr Val Ser Val Gly
      130      135      140
Glu Ser Leu Phe Asp Asp Arg Tyr Gly Leu Ala Lys Gln Lys Pro Lys

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145          150          155          160
Ala Leu Gln Lys Met Thr Arg Phe Pro Asn Asp Ser Leu Asp Ala Ala
165          170          175
Leu Cys His Gly Asp Leu Leu Leu Gln Ile Cys Ala Asn Thr Gln Asp
180          185          190
Thr Val Ile His Ala Leu Arg Asp Ile Ile Lys His Thr Pro Asp Leu
195          200          205
Leu Ser Val Arg Trp Lys Arg Glu Gly Phe Ile Ser Asp His Ala Ala
210          215          220
Arg Ser Lys Gly Lys Glu Thr Pro Val Asn Leu Leu Gly Phe Lys Asp
225          230          235          240
Gly Thr Ala Asn Pro Asp Ser Ser Asn Thr Ala Leu Met Asn Lys Val
245          250          255
Val Trp Val Thr Ala Asp Gln Gly Glu Pro Ala Trp Ala Val Gly Gly
260          265          270
Ser Tyr Gln Ala Val Arg Ile Ile Gln Phe His Val Glu Phe Trp Asp
275          280          285
Arg Thr Pro Leu Lys Glu Gln Gln Thr Thr Ile Phe Gly Arg Asp Lys Gln
290          295          300
Thr Gly Ala Pro Leu Gly Met Lys Leu Glu His Asp Glu Pro Asp Tyr
305          310          315          320
Ala Arg Asp Pro Asn Gly Asp Val Ile Ala Leu Asp Ser His Ile Arg
325          330          335
Leu Ala Asn Pro Arg Thr Lys Glu Thr Gln Ser Ser Leu Met Met Arg
340          345          350
Arg Gly Tyr Ser Tyr Ser Leu Gly Val Thr Asn Ser Gly Gln Leu Asp
355          360          365
Met Gly Leu Leu Phe Val Cys Tyr Gln His Asp Leu Glu Lys Gly Phe
370          375          380
Leu Thr Val Gln Lys Arg Leu Asn Gly Glu Ala Leu Glu Glu Tyr Ile
385          390          395          400
Lys Pro Ile Gly Gly Gly Tyr Phe Phe Ala Leu Pro Gly Ala Arg Asp
405          410          415
Ala Asn Ala Trp Leu Ala Gln Gly Leu Ile Glu Ala
420          425

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<210> 6111

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 6111

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Leu Ala Ala Leu Ala Leu Arg Ala Ala Cys Ser Leu Arg Ser Gln Ser
1          5          10          15
Val Gln Leu Ala Ala Pro Val Val Glu Pro Arg Ser Gly Val Leu Ile
20          25          30
Pro Arg Lys Gly Val Gln His Ala Lys Lys Lys Pro Ala Phe Ser Cys
35          40          45
Glu Leu Phe Phe Lys Tyr Gly Gly Glu Gly Gly Ile Arg Thr Pro Asp
50          55          60
Thr Leu Pro Tyr Thr His Phe Pro Gly Val Leu Leu Gln Pro Leu Gly
65          70          75          80
His Leu Thr Ile Leu Phe Cys Cys Leu Thr Ala Trp Gly Ala Thr Gly
85          90          95
Arg Tyr Tyr Arg Glu Leu Arg
100

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<210> 6112

<211> 603

<212> PRT

<213> Enterobacter cloacae

<400> 6112

Arg Arg Gly Ile Ser Ser Ala Ala Phe Phe Cys Ser Asn Cys Pro His
 1 5 10 15
 Tyr Phe Leu Pro Gly Arg Phe Lys Gly Cys His Tyr Val Arg Leu Ile
 20 25 30
 Arg Ser Tyr Ala Val Ile Arg Cys Leu Arg Phe Glu Glu Ser Thr Met
 35 40 45
 Ser Glu Ala Glu Ala Arg Pro Ser Asn Phe Ile Arg Gln Ile Ile Asp
 50 55 60
 Glu Asp Leu Ala Ser Gly Lys His Tnr Thr Val His Thr Arg Phe Pro
 65 70 75 80
 Pro Glu Pro Asn Gly Tyr Leu His Ile Gly His Ala Lys Ser Ile Cys
 85 90 95
 Leu Asn Phe Gly Ile Ala Gln Asp Tyr Gln Gly Gln Cys Asn Leu Arg
 100 105 110
 Phe Asp Asp Thr Asn Pro Val Lys Glu Asp Ile Glu Tyr Val Glu Ser
 115 120 125
 Ile Lys Asn Asp Val Gln Trp Leu Gly Phe Asn Trp Ser Gly Asp Ile
 130 135 140
 Cys Tyr Ser Ser Asp Tyr Phe Asp Gln Leu Tyr Ala Tyr Ala Val Glu
 145 150 155 160
 Leu Ile Asn Lys Gly Leu Ala Tyr Val Asp Glu Leu Ser Ala Asp Glu
 165 170 175
 Ile Arg Glu Tyr Arg Gly Thr Leu Thr Gln Pro Gly Lys Asn Ser Pro
 180 185 190
 Phe Arg Asp Arg Ser Val Glu Glu Asn Leu Ala Leu Phe Glu Lys Met
 195 200 205
 Arg Ala Gly Gly Phe Glu Glu Gly Lys Ala Cys Leu Arg Ala Lys Ile
 210 215 220
 Asp Met Ala Ser Pro Phe Ile Val Met Arg Asp Pro Val Leu Tyr Arg
 225 230 235 240
 Ile Lys Phe Ala Glu His His Gln Thr Gly Asn Lys Trp Cys Ile Tyr
 245 250 255
 Pro Met Tyr Asp Phe Thr His Cys Ile Ser Asp Ala Leu Glu Gly Ile
 260 265 270
 Thr His Ser Leu Cys Thr Leu Glu Phe Gln Asp Asn Arg Arg Leu Tyr
 275 280 285
 Asp Trp Val Leu Asp Asn Ile Thr Ile Pro Val His Pro Arg Gln Tyr
 290 295 300
 Glu Phe Ser Arg Leu Asn Leu Glu Tyr Thr Val Met Ser Lys Arg Lys
 305 310 315 320
 Leu Asn Leu Leu Val Thr Asp Lys His Val Glu Gly Trp Asp Asp Pro
 325 330 335
 Arg Met Pro Thr Ile Ser Gly Leu Arg Arg Arg Gly Tyr Thr Ser Ala
 340 345 350
 Ser Ile Arg Glu Phe Cys Lys Arg Ile Gly Val Thr Lys Gln Asp Asn
 355 360 365
 Thr Ile Glu Met Ala Ser Leu Glu Ser Cys Ile Arg Glu Asp Leu Asn
 370 375 380
 Glu Asn Ala Pro Arg Ala Met Ala Val Ile Asp Pro Val Lys Leu Val
 385 390 395 400
 Ile Glu Asn Tyr Pro Gln Gly Gly Ser Glu Gln Val Ser Met Pro Asn
 405 410 415
 His Pro Asn Lys Pro Glu Met Gly Thr Arg Asp Val Pro Phe Ser Gly
 420 425 430
 Glu Ile Trp Ile Asp Arg Ala Asp Phe Arg Glu Glu Ala Asn Lys Gln
 435 440 445
 Tyr Lys Arg Leu Val Leu Gly Lys Glu Val Arg Leu Arg Asn Ala Tyr
 450 455 460
 Val Ile Lys Ala Glu Arg Val Glu Lys Asp Ala Glu Gly Asn Ile Thr

```

465          470          475          480
Thr Ile Phe Cys Thr Tyr Asp Ala Glu Thr Leu Ser Lys Asp Pro Ala
      485          490          495
Asp Gly Arg Lys Val Lys Gly Val Ile His Trp Val Ser Ala Gln His
      500          505          510
Ala Leu Pro Val Glu Ile Arg Leu Tyr Asp Arg Leu Phe Ser Val Pro
      515          520          525
Asn Pro Gly Ala Ala Glu Asp Phe Leu Ala Val Ile Asn Pro Glu Ser
      530          535          540
Leu Ile Ile Lys Gln Gly Tyr Ala Glu Pro Ser Leu Lys Ala Ala Glu
545          550          555          560
Ala Gly Lys Ala Phe Gln Phe Glu Arg Glu Gly Tyr Phe Cys Leu Asp
      565          570          575
Ser Arg Tyr Ser Thr Ala Glu Lys Pro Val Phe Asn Arg Thr Val Gly
      580          585          590
Leu Arg Asp Thr Trp Thr Lys Ile Gly Glu
      595          600

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<210> 6113

<211> 205

<212> ERT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(176)

<220>

<221>UNSURE

<222>(185)

<400> 6113

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Ser Met Arg Thr Phe Ser Gly Lys Arg Ser Ala Leu Ala Leu Ala Ile
1          5          10          15
Ala Gly Val Thr Ala Met Ser Gly Leu Val Val Ala Pro Gln Ala Lys
      20          25          30
Ala Ala Gly Phe Ile Glu Asp Ser Thr Leu Thr Gly Gly Ile Tyr Tyr
      35          40          45
Trp Gln Arg Glu Arg Asp Arg Lys Asp Val Thr Glu Asp Lys Tyr Lys
      50          55          60
Thr Asn Leu Ser His Ser Thr Trp Asn Ala Asn Leu Asp Phe Gln Ser
65          70          75          80
Gly Tyr Ala Ala Asp Met Phe Gly Ile Asp Ile Ala Ala Phe Thr Ala
      85          90          95
Ile Glu Met Ala Glu Asn Gly Asp Ser Gly His Pro Asn Glu Ile Ala
      100          105          110
Phe Ser Ser Ser Asn Lys Ala Tyr Asp Glu Asp Trp Ser Gly Asp Lys
      115          120          125
Ser Gly Ile Ser Leu Tyr Lys Ala Ala Ala Lys Phe Lys Tyr Gly Pro
      130          135          140
Val Trp Ala Arg Gly Ser Tyr Ile Gln Pro Thr Gly Gln Thr Leu Leu
145          150          155          160
Ala Pro His Trp Ser Phe Met Pro Gly Thr Tyr Gln Gly Ala Glu Xaa
      165          170          175
Gly Ala Asn Phe Asp Tyr Gly Glu Xaa Gly Gly Val Ser Phe Ser Tyr
      180          185          190
Met Trp Asn Asn Glu Val Thr Ser Ala Val Ala His
      195          200          205

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<210> 6114

<211> 667

<212> PRT

<213> *Enterobacter cloacae*

<400> 6114

Lys His Ser Leu Cys Ala Ser Leu Asn Lys Gly Ser Arg Arg Gly Asn
 1 5 10 15
 Arg Met Asn Ile Leu Gly Phe Phe Gln Arg Leu Gly Arg Ala Leu Gln
 20 25 30
 Leu Pro Ile Ala Val Leu Pro Val Ala Ala Leu Leu Leu Arg Phe Gly
 35 40 45
 Gln Pro Asp Leu Leu Asn Val Pro Phe Ile Ala Gln Ala Gly Gly Ala
 50 55 60
 Ile Phe Asp Asn Leu Ala Leu Ile Phe Ala Ile Gly Val Ala Ser Ser
 65 70 75 80
 Trp Ser Lys Asp Ser Ala Gly Ala Ala Ala Leu Ala Gly Ala Val Gly
 85 90 95
 Tyr Phe Ile Leu Thr Lys Ala Met Val Thr Ile Asn Pro Glu Ile Asn
 100 105 110
 Met Gly Val Leu Ala Gly Ile Ile Thr Gly Leu Val Gly Gly Ala Val
 115 120 125
 Tyr Asn Arg Trp Ala Gly Ile Lys Leu Pro Asp Phe Leu Ser Phe Phe
 130 135 140
 Gly Gly Lys Arg Phe Val Pro Ile Ala Thr Gly Phe Phe Cys Leu Ile
 145 150 155 160
 Leu Ala Ala Ile Phe Gly Tyr Val Trp Pro Val Gln His Ala Ile
 165 170 175
 His Ala Asp Gly Glu Trp Ile Val Ser Ala Gly Ala Met Gly Ala Gly
 180 185 190
 Ile Phe Gly Phe Ile Asn Arg Leu Leu Ile Pro Thr Gly Leu His Gln
 195 200 205
 Val Leu Asn Thr Ile Ala Trp Phe Gln Ile Gly Glu Phe Thr Asn Ala
 210 215 220
 Ala Gly Ala Val Phe His Gly Asp Ile Asn Arg Phe Tyr Ala Gly Asp
 225 230 235 240
 Gly Thr Ala Gly Met Phe Met Ser Gly Phe Phe Pro Ile Met Met Phe
 245 250 255
 Gly Leu Pro Gly Ala Ala Leu Ala Met Tyr Leu Ala Ala Pro Lys Ala
 260 265 270
 Arg Arg Pro Met Val Gly Gly Met Leu Leu Ser Val Ala Ile Thr Ala
 275 280 285
 Phe Leu Thr Gly Val Thr Glu Pro Leu Glu Phe Leu Phe Met Phe Leu
 290 295 300
 Ala Pro Leu Leu Tyr Leu Met His Ala Ile Leu Thr Gly Ile Ser Leu
 305 310 315 320
 Phe Val Ala Thr Leu Leu Gly Ile His Ala Gly Phe Ser Phe Ser Ala
 325 330 335
 Gly Ala Ile Asp Tyr Val Trp Met Tyr Asn Leu Pro Ala Ala Ser Ile
 340 345 350
 Ser Val Trp Ile Leu Met Val Met Gly Leu Ile Phe Cys Val Ile Tyr
 355 360 365
 Phe Val Leu Phe Ser Ala Val Val Arg Met Phe Asn Leu Lys Thr Pro
 370 375 380
 Gly Arg Glu Asp Ala Lys Asp Asp Val Val Thr Ser Glu Ala Asn Ser
 385 390 395 400
 Asn Thr Glu Glu Gly Leu Thr Gln Leu Ala Thr Thr Tyr Ile Ala Ala
 405 410 415
 Val Gly Gly Thr Asp Asn Leu Lys Ala Ile Asp Ala Cys Ile Thr Arg
 420 425 430
 Leu Arg Leu Thr Val Gly Asp Ser Ala Arg Val Ser Asp Ala Met Cys
 435 440 445
 Lys Arg Leu Gly Ala Ser Gly Val Val Lys Leu Asn Lys Gln Thr Ile

450		455		460	
Gln Val Ile Val Gly	Ala Lys Ala Glu Ser	Ile Gly Asp Glu Met Lys			
465	470	475	480		
Lys Val Val Ala Arg Gly	Pro Val Ala Ala Ser Thr Asp Asn Ala				
	485	490	495		
Pro Val Ala Asp Ala	Pro Val Ala Lys Pro Gln Ala Val Pro Asn Ala				
	500	505	510		
Val Thr Ile Ala Ala Leu Val Ser Pro Val Thr Gly Asp Val Val Ala					
	515	520	525		
Leu Glu Gln Val Pro Asp Glu Ala Phe Ala Ser Lys Ala Val Gly Asp					
	530	535	540		
Gly Val Ala Val Lys Pro Thr Asp Lys Thr Val Val Ser Pro Ala Ala					
545	550	555	560		
Gly Thr Ile Val Lys Ile Phe Asn Thr Asn His Ala Phe Cys Leu Glu					
	565	570	575		
Thr Glu Lys Gly Ala Glu Ile Val Val His Met Gly Ile Asp Thr Val					
	580	585	590		
Ala Leu Asn Gly Gln Gly Phe Thr Arg Leu Val Glu Glu Gly Ala Glu					
	595	600	605		
Val Ala Ala Gly Gln Pro Ile Leu Glu Met Asp Leu Asp Phe Leu Asn					
	610	615	620		
Ala Asn Ala Arg Ser Met Ile Ser Pro Val Val Cys Ser Asn Ile Asp					
625	630	635	640		
Asp Phe Ser Gly Leu Val Ile Gln Ala Gln Gly Gln Val Val Ala Gly					
	645	650	655		
Gln Thr Pro Leu Tyr Glu Ile Lys Gly Lys					
	660	665			

<210> 6115

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 6115

Asn Val Pro Glu Glu Asn Asn Gly Gly Asn Cys Cys Lys Lys Lys Arg					
1	5	10	15		
Arg Arg Ile Ser Pro Ala Ala Lys Gly Ile Thr Leu Leu Arg Ser Asp					
	20	25	30		
Tyr Leu Pro Leu Ile Ser Tyr Ser Gly Val Trp Pro Ala Thr Thr Cys					
	35	40	45		
Pro Cys Ala Trp Ile Thr Arg Pro Leu Lys Ser Ser Met Leu Leu His					
	50	55	60		
Thr Thr Gly Leu Ile Met Glu Arg Ala Leu Ala Phe Arg Lys Ser Arg					
65	70	75	80		
Ser Ile Ser Arg Ile Gly Trp Pro Ala Ala Thr Ser Ala Pro Ser Ser					
	85	90	95		
Thr Arg Arg Val Lys Pro Trp Pro Phe Ser Ala Thr Val Ser Ile Pro					
	100	105	110		
Ile Trp Thr Thr Ile Ser Ala Pro Phe Ser Val Ser Arg Gln Asn Ala					
	115	120	125		
Trp Leu Val Leu Lys Ile Phe Thr Ile Val Pro Ala Ala Gly Glu Thr					
	130	135	140		
Thr Val Leu Ser Val Gly Phe Thr Ala Thr Pro Ser Pro Thr Ala Leu					
145	150	155	160		
Leu Ala Asn Ala Ser Ser Gly Thr Cys Ser Ser Ala Thr Thr Ser Pro					
	165	170	175		
Val Thr Gly Glu Thr Ser Ala Ala Met Val Thr Ala Phe Gly Thr Ala					
	180	185	190		
Cys Gly Phe Ala Thr Gly Ala Ser Ala Thr Gly Ala Leu Ser Val Glu					
	195	200	205		
Ala Ala Ala Thr Gly Pro Arg Ala Thr Thr Phe Phe Ile Ser Ser Pro					

210	215	220
Ile Asp Ser Ala Phe	Ala Pro Thr Ile Thr	Trp Met Val Cys Leu Phe
225	230	235
Ser Phe Thr Thr	Pro Asp Ala Pro Arg Arg	Leu His Ile Ala Ser Leu
	245	250
Thr Arg Ala Glu Ser	Pro Thr Val Arg Arg	Arg Arg Val Ile Gln Ala
	260	265
Ser Ile Ala Phe Arg	Leu Ser Val Pro Pro	Thr Ala Ala Met
	275	280
		285

<210> 6116

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 6116

Ala Gly Asp Gly Gly	Asp His Pro Gly	Ser Ala Gly Cys Ala	Asp Gly
1	5	10	15
Gly Ser Arg Pro Phe	Thr Ala Leu Leu	Ser Lys Ile Asn Pro	His Thr
	20	25	30
Ser Gln Gln Gly Lys	Asp Ile Met Lys	Ser Arg Ala Ala	Val Ala Phe
	35	40	45
Gly Pro Gly Gln Pro	Leu Lys Ile Val	Glu Ile Asp Val	Ala Pro Pro
	50	55	60
Lys Lys Gly Glu Val	Leu Ile Lys Ile	Thr His Thr Gly	Val Cys His
	65	70	75
Thr Asp Ala Phe Thr	Leu Ser Gly Asp	Asp Pro Glu Gly	Val Phe Pro
	85	90	95
Ala Val Leu Gly His	Glu Gly Gly Val	Val Val Glu Val	Gly Gly
	100	105	110
Gly Val Thr Ser Leu	Lys Pro Gly Asp	His Val Ile Pro	Leu Tyr Thr
	115	120	125
Ala Glu Cys Gly Glu	Cys Lys Phe Cys	Lys Ser Gly Lys	Thr Asn Leu
	130	135	140
Cys Gln Ala Val Arg	Ala Thr Gln Gly	Lys Gly Leu Met	Pro Asp Gly
	145	150	155
Thr Thr Arg Phe Ser	Tyr Asn Gly Glu	Pro Ile Tyr His	Tyr Met Gly
	165	170	175
Thr Ser Thr Phe Ser	Glu Tyr Thr Val	Cys Ala Glu Ile	Ser Leu Ala
	180	185	190
Lys Val Asn Pro Gln	Ala Pro Leu Asp	Lys Val Cys Leu	Leu Gly Cys
	195	200	205
Gly Val Thr Thr Gly	Ile Gly Ala Val	His Asn Thr Ala	Lys Val Lys
	210	215	220
Glu Gly Asp Thr Val	Ala Val Phe Gly	Leu Gly Gly Ile	Gly Leu Ala
	225	230	235
Val Ile Gln Gly Ala	Val Gln Ala Lys	Ala Gly Arg Ile	Ile Ala Val
	245	250	255
Asp Thr Asn Pro Glu	Lys Phe Lys Leu	Ala Gly Glu Met	Gly Ala Thr
	260	265	270
Asp Phe Ile Asn Pro	Lys Asp Tyr Asp	Lys Pro Val Gln	Glu Val Ile
	275	280	285
Val Glu Leu Thr Asp	Gly Gly Val Asp	Phe Ser Phe	Glu Cys Ile Gly
	290	295	300
Asn Val Tyr Val Met	Arg Ser Ala Leu	Glu Cys Cys His	Lys Gly Trp
	305	310	315
Gly Glu Ser Ile Ile	Ile Gly Val Ala	Gly Arg Gly Ser	Gly Asp Gln
	325	330	335
Asn Pro Ser Leu Pro	Ser Gly Asp Arg	Gly Arg Met Ala	Val Gly
	340	345	350
Ile Trp Arg Arg Glu	Arg Pro Tyr Pro	Ala Ala Gly His	Gly

355

360

365

<210> 6117
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 6117
 Lys Ile Gln Tyr Pro Pro Ile Val Ser Gly Gly Arg Met Pro His Ser
 1 5 10 15
 Pro Glu Asp Lys Lys Arg Ile Leu Thr Arg Val Arg Arg Ile Arg Gly
 20 25 30
 Gln Val Asp Ala Leu Glu Arg Ala Leu Glu Ser Gly Asp Pro Cys Leu
 35 40 45
 Ala Ile Leu Gln Gln Ile Ala Ala Val Arg Gly Ala Ala Asn Gly Leu
 50 55 60
 Met Gly Glu Met Val Glu Ile His Leu Lys Asp Glu Leu Val Thr Gly
 65 70 75 80
 Glu Thr Thr Pro Asp Gln Arg Ala Val Arg Met Ala Glu Val Gly His
 85 90 95
 Leu Leu Arg Ser Tyr Leu Lys
 100

<210> 6118
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

<400> 6118
 Cys Ala Gln Arg Leu Ser Ala Ala Thr Lys Ala Gly Ala Arg Ala Ser
 1 5 10 15
 Leu Ser Val Trp Pro Ala Ala Gly Gln Glu Ile Lys Thr Arg Pro Tyr
 20 25 30
 His Leu Val Thr Gly Gly Val Trp Arg Gly Ser Ala Phe Gly Gly Val
 35 40 45
 Lys Gly Arg Thr Gln Leu Pro Gly Met Val Glu Asp Ala Met Val Gly
 50 55 60
 Lys Ile Gln Leu Asp Pro Phe Ile Thr His Arg Leu Pro Leu Glu Gln
 65 70 75 80
 Ile Asn Glu Ala Phe Asp Leu Met His Glu Gly Lys Ser Ile Arg Thr
 85 90 95
 Val Ile His Phe Gly Asp Asn
 100

<210> 6119
 <211> 517
 <212> PRT
 <213> Enterobacter cloacae

<400> 6119
 Ser Phe Leu Lys Cys Asp Leu Ser Gly Ala Phe Asn Arg Asn Leu Ile
 1 5 10 15
 Leu Arg Arg Ala Asp Asp Ser Phe Thr Gly Val Phe Leu Arg Ile Leu
 20 25 30
 Pro Ile Arg Glu Ser Thr Val Met Asp Asn Thr Thr Ser Met Gln Ala
 35 40 45
 Gln His Lys Leu Ser Phe Leu His His Ile Arg Leu Val Pro Leu Phe
 50 55 60
 Ser Ser Ile Leu Gly Gly Ile Ile Leu Leu Phe Ala Leu Ser Ser Gly
 65 70 75 80
 Leu Ala Gly Tyr Phe Leu Leu Gln Ala Asp Asn Asp Gln Gln Asp Val

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<210> 6120
<211> 167
<212> PRT
<213> Enterobacter cloacae
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<400> 6120

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Lys Asp Phe Leu Leu Pro Pro Asn Cys Pro Gln Ser Val Phe Cys Pro
1      5      10      15
Gln Ile Cys Pro Arg Asn Leu Leu Phe Cys Val Ala Pro Ser Ser Phe
      20      25      30
Glu Ser His Leu Phe Thr Gln Phe Arg Leu Ile Ser Ile Ile Ala Thr
      35      40      45
Asn Pro Phe Val Arg Leu Asn Gln Arg Ala Leu Leu Phe Pro Thr Asn
      50      55      60
Leu Tyr Phe Gln Ser Asp Thr Arg Leu Glu Val Ser Met Cys Gly Arg
65      70      75      80
Phe Ala Gln Ala Gln Thr Arg Glu Glu Tyr Leu Ala Tyr Phe Ala Asp
      85      90      95
Glu Ala Val Arg Asp Ile Ala Tyr Asp Pro Glu Pro Ile Gly Arg Tyr
      100      105      110
Asn Val Ala Pro Gly Ser Lys Val Leu Leu Ser Glu His Asp Glu
      115      120      125
Gln Leu His Leu Asp Pro Val Phe Trp Gly Tyr Pro Pro Gly Trp Trp
      130      135      140
Asp Lys Ala Pro Leu Ile Asn Ala Arg Val Glu Thr Ala Ala Thr Ser
145      150      155      160
Arg Met Phe Lys Pro Leu
      165

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<210> 6121

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 6121

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Gln His Gly Arg Ala Ile Cys Phe Ala Asp Gly Trp Phe Glu Trp Lys
1      5      10      15
Arg Glu Glu Gly Lys Lys Gln Pro Tyr Phe Ile His Arg Ala Asp Gly
      20      25      30
Gln Pro Ile Phe Met Ala Ala Ile Gly Ser Thr Pro Phe Glu Arg Gly
      35      40      45
Asp Glu Ala Glu Gly Phe Leu Ile Val Thr Ser Ala Ala Asp Lys Gly
      50      55      60
Leu Val Asp Ile His Asp Arg Arg Pro Leu Val Leu Ser Pro Glu Ala
65      70      75      80
Ala Arg Glu Trp Met Arg Gln Glu Val Gly Gly Lys Glu Ala Glu Gln
      85      90      95
Ile Ala Ala Asp Gly Val Ser Thr Arg Gln Gly Glu Val Gln Arg
      100      105      110

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<210> 6122

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 6122

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Asn Ser Ala Ser Gln Lys Glu Ile Ala Met Thr Leu Pro Ser Gly His
1      5      10      15
Pro Lys Ser Arg Leu Ile Lys Lys Phe Met Ala Leu Gly Pro Tyr Ile
      20      25      30
Arg Glu Glu Gln Cys Glu Glu Asn Arg Phe Phe Phe Asp Cys Leu Ala
      35      40      45
Val Cys Val Asn Val Lys Pro Ala Pro Glu Lys Arg Glu Phe Trp Gly
      50      55      60
Trp Trp Met Glu Met Glu Ala Gln Glu Asn Arg Phe Thr Tyr Ser Tyr
65      70      75      80

```

Gln Phe Gly Leu Phe Asn Lys Asp Gly His Trp Gln Ala Thr Ser Ile
 85 90 95
 Lys Asp Gln Glu Val Ile Asp Arg Leu Glu His Thr Leu Lys Glu Phe
 100 105 110
 His Gly Lys Ala Arg Asp Leu Leu Ala Thr Leu Asp Leu Lys Leu Glu
 115 120 125
 Pro Ala Asp Asp Phe Ser Ser Glu Ala Val Lys Leu Arg Ala
 130 135 140

<210> 6123

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 6123

Leu Arg Pro Arg Pro Ala Ile Lys Ala Leu Glu Asn Ile Pro Trp Val
 1 5 10 15
 Asp His Thr Arg Val Gly Ala Phe Gly Phe Arg Phe Gly Ala Asn Val
 20 25 30
 Ala Val Arg Leu Ala Tyr Leu Glu Ser Ser Arg Leu Lys Ala Val Ala
 35 40 45
 Cys Leu Gly Pro Val Val His Ala Leu Leu Ser Asp Pro Ala Arg Gln
 50 55 60
 Gly Ser Val Pro Glu Met Tyr Leu Asp Val Leu Ala Ser Arg Leu Gly
 65 70 75 80
 Met His Asp Ala Ser Asp Glu Ala Leu Arg Ile Glu Leu Asn Arg Tyr
 85 90 95
 Ser Leu Lys Thr Gln Gly Leu Leu Gly Arg Arg Cys Pro Thr Pro Met
 100 105 110
 Met Ser Gly Phe Trp Lys Asn Asp Pro Phe Ser Pro Glu Glu Glu Ser
 115 120 125
 Arg Leu Ile Thr Ser Ser Ser Ser Asp Gly Lys Leu Leu Glu Val Pro
 130 135 140
 Phe Ser Pro Val Tyr Gln Asn Phe Asp Lys Ala Leu Lys Glu Ile Thr
 145 150 155 160
 Arg Trp Ile Thr Gln Arg Leu Cys
 165

<210> 6124

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 6124

Leu Thr Ser Phe Ser Leu Ile Val Glu Arg Gln Arg Ile Met Ser Asp
 1 5 10 15
 Ser Gln Thr Leu Val Val Lys Leu Gly Thr Ser Val Leu Thr Gly Gly
 20 25 30
 Ser Arg Arg Leu Asn Arg Ala His Ile Val Glu Leu Val Arg Gln Cys
 35 40 45
 Ala Gln Leu His Ala Ala Gly His Arg Ile Val Ile Val Thr Ser Gly
 50 55 60
 Ala Ile Ala Ala Gly Arg Glu His Leu Gly Tyr Pro Glu Leu Pro Ala
 65 70 75 80
 Thr Ile Ala Ser Lys Gln Leu Leu Ala Ala Val Gly Gln Ser Arg Leu
 85 90 95
 Ile Gln Leu Trp Glu Gln Leu Phe Ser Ile Tyr Gly Ile His Val Gly
 100 105 110
 Gln Met Leu Leu Thr Arg Ala Asp Met Glu Asp Arg Glu Arg Phe Leu
 115 120 125
 Asn Ala Arg Asp Thr Leu Arg Ala Leu Leu Asp Asn His Ile Val Pro

130 135 140
 Val Ile Asn Glu Asn Asp Ala Val Ala Thr Ala Glu Ile Lys Val Gly
 145 150 155 160
 Asp Asn Asp Asn Leu Ser Ala Leu Ala Ala Ile Leu Ala Gly Ala Asp
 165 170 175
 Lys Leu Leu Leu Leu Thr Asp Gln Gln Gly Leu Phe Thr Ala Asp Pro
 180 185 190
 Arg Ser Asn Pro Gln Ala Glu Leu Ile Lys Asp Val His Gly Ile Asp
 195 200 205
 Asp Ala Leu Arg Ala Ile Ala Gly Asp Ser Val Ser Gly Leu Gly Thr
 210 215 220
 Gly Gly Met Gly Thr Lys Leu Gln Ala Ala Asp Val Ala Cys Arg Ala
 225 230 235 240
 Gly Ile Asp Thr Ile Ile Ala Ala Gly Ser Arg Pro Gly Val Ile Gly
 245 250 255
 Asp Val Met Glu Gly Ile Ser Val Gly Thr Arg Phe His Ala Gln Ala
 260 265 270
 Ser Pro Leu Glu Asn Arg Lys Arg Trp Ile Phe Gly Ala Pro Pro Ala
 275 280 285
 Gly Glu Leu Thr Val Asp Glu Gly Ala Thr Ala Ala Ile Leu Glu Arg
 290 295 300
 Gly Ser Ser Leu Leu Pro Lys Gly Ile Lys Ser Val Thr Gly Asn Phe
 305 310 315 320
 Ser Arg Gly Glu Val Ile Arg Ile Arg Asn Leu Glu Gly Arg Asp Ile
 325 330 335
 Ala His Gly Val Ser Arg Tyr Asn Ser Asp Ala Leu Arg Arg Ile Ala
 340 345 350
 Gly His His Ser Gln Gln Ile Asp Ala Ile Leu Gly Tyr Glu Tyr Gly
 355 360 365
 Pro Val Ala Val His Arg Asp Asp Met Ile Ile Arg
 370 375 380

<210> 6125

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 6125

Arg Val Phe Ile Lys Ser Gly Leu Lys Met Lys Lys Ser Thr Leu Ala
 1 5 10 15
 Leu Val Val Met Gly Val Val Ala Ser Ala Ser Val Gln Ala Ala Glu
 20 25 30
 Val Tyr Asn Lys Asn Gly Asn Lys Leu Asp Val Tyr Gly Lys Val Lys
 35 40 45
 Ala Met His Tyr Ile Arg Asp Asp Ala Lys Asp Gly Asp Gln Thr
 50 55 60
 Tyr Val Arg Phe Gly Phe Lys Gly Glu Thr Gln Ile Asn Asp Gln Leu
 65 70 75 80
 Thr Gly Tyr Gly Arg Trp Glu Ala Glu Phe Ala Gly Asn Lys Ala Glu
 85 90 95
 Ser Asp Ser Ser Gln Lys Thr Arg Leu Ala Phe Ala Gly Leu Lys Leu
 100 105 110
 Lys Asp Phe Gly Ser Leu Asp Tyr Gly Arg Asn Leu Gly Ala Leu Tyr
 115 120 125
 Asp Val Ala Ala Tyr Thr Asp Met Phe Pro Glu Phe Gly Gly Asp Gly
 130 135 140
 Leu Ala Gln Thr Asp Asn Phe Met Thr Lys Arg Ala Ser Gly Leu Ala
 145 150 155 160
 Thr Tyr Arg Asn Thr Asp Phe Phe Gly Leu Val Asp Gly Leu Asn Met
 165 170 175
 Thr Leu Gln Tyr Gln Gly Lys Asn Glu Asn Arg Asp Val Lys Lys Gln

180	185	190
Asn Gly Asp	Leu Ser Tyr Asp	Phe Gly Gly Ser
195	200	205
Asp Phe Ser	Val Ile Gly Ala Tyr	Ala Ser Ser Asp
210	215	220
Gln Asn Leu	Gln Ala Arg Gly	Glu Gly Trp Ala
225	230	235
Thr Gly Leu	Lys Tyr Asp Ala	Asn Asp Ile Tyr
240	245	250
Ser Glu Thr	Arg Asn Met Ala	Pro Ile Ser Gly
255	260	265
Ala Gln Asn	Phe Glu Val Val	Ala Gln Tyr Gln
270	275	280
Arg Pro Ser	Leu Gly Tyr Val	Gln Ser Lys Gly
285	290	295
Ile Gly Asp	Glu Asp Ile Val	Lys Tyr Ile Asp
300	305	310
Tyr Phe Asn	Lys Asn Met Ser	Ala Phe Val Asp
315	320	325
Ile Asp Asp	Asp Asn Lys Leu	Gly Val Ser Ser
330	335	340
Leu Gly Met	Thr Tyr Gln Phe	
345	350	355
	360	

<210> 6126

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 6126

Arg Lys Gly	Tyr Pro Phe	His Lys Glu	Ser Ile Val	Lys Lys Ala	Leu
1	5	10	15	15	15
Leu Ser Ala	Leu Ala Val	Thr Ser Leu	Phe Ala Leu	Phe Gly Cys	Asn
20	25	30	35	40	45
Asn Arg Ser	Glu Thr Gln	Val Leu Gln	Pro Thr Gln	Asn Glu Glu	Leu
35	40	45	50	55	60
Lys Pro Met	Gln Gln Ser	Trp Arg Gly	Val Leu Pro	Cys Ala Asp	Cys
65	70	75	80	85	90
Glu Gly Ile	Glu Thr Ser	Leu Phe Leu	Gln Lys Asp	Gly Thr Trp	Val
95	100	105	110	115	120
Met Asn Gln	Arg Tyr Gln	Gly Ala Lys	Glu Pro Ser	Ser Phe Ala	Ser
125	130	135	140	145	150
Tyr Gly Thr	Trp Ala Arg	Thr Ala Glu	Lys Leu Val	Leu Thr Asp	Thr
155	160	165	170	175	180
Thr Gly Asp	Lys Thr Phe	Phe Arg Ala	Lys Gly Glu	Gly Met Glu	Met
185	190	195	200	205	210
Leu Asp Arg	Glu Gly Asn	Pro Ile Glu	Ser Gln Phe	Asn Tyr Thr	Leu
215	220	225	230	235	240
Ala Pro Val	Lys Ala Thr	Leu Pro Ala	Thr Pro Met	Ala Met Arg	Gly
245	250	255	260	265	270
Met Tyr Phe	Tyr Met Ala	Asp Ala Ala	Ile Phe Thr	Asp Cys Ala	Thr
275	280	285	290	295	300
Gly Lys Lys	Val Ser Val	Ala Asn Asn	Ala Gln Leu	Glu Arg Asp	Tyr
305	310	315	320	325	330
Ala Val Ala	Arg Gly Asn	Asp Ser Lys	Pro Val Leu	Leu Thr Val	Glu
335	340	345	350	355	360
Gly His Phe	Thr Leu Glu	Pro Asn Pro	Asp Ser Gly	Glu Leu Val	Lys
365	370	375	380	385	390
Thr Leu Val	Ala Asp Lys	Asp Ala Lys	Phe Ala Ala	Gly Lys Asp	Cys
395	400	405	410	415	420
Glu Ser Lys					

<210> 6127
 <211> 151
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6127
 Ser Gly Asn Ser Ser His Gly Leu Ala Ala Arg Ile Met Ile Val Leu
 1 5 10 15
 Ser Arg Asn Val Ser Ile Pro Asp Asn Glu Leu Glu Ile Thr Ala Ile
 20 25 30
 Arg Ala Gln Gly Ala Gly Gly Gln His Val Asn Lys Ala Ser Thr Ala
 35 40 45
 Ile His Leu Arg Phe Asp Ile Arg Ala Ser Ser Leu Pro Glu Tyr Tyr
 50 55 60
 Lys Glu Ser Leu Leu Ala Ala Ser His His Leu Ile Thr Ser Glu Gly
 65 70 75 80
 Val Ile Val Ile Lys Ala Gln Glu Tyr Arg Ser Gln Glu Leu Asn Arg
 85 90 95
 Glu Ala Ala Thr Ala Arg Leu Val Ala Val Ile Lys Glu Leu Thr Ala
 100 105 110
 Val Gln Lys Ser Arg Arg Ala Thr Arg Pro Thr Arg Ala Ser Lys Glu
 115 120 125
 Arg Arg Leu Ser Ser Lys Ala Gln Lys Ser Thr Val Lys Ser Leu Arg
 130 135 140
 Gly Lys Val Arg His Pro
 145 150

<210> 6128
 <211> 188
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6128
 Phe Glu Arg Ser Ser Leu Met Ala Leu Lys Ala Thr Ile Tyr Lys Ala
 1 5 10 15
 Val Val Asn Val Ala Asp Leu Asp Arg Asn Gln Phe Leu Asp Ala Ser
 20 25 30
 Leu Thr Leu Ala Arg His Pro Ser Glu Thr Gln Glu Arg Met Met Leu
 35 40 45
 Arg Leu Leu Ala Trp Ile Lys Tyr Ala Asp Glu Arg Leu Gln Phe Thr
 50 55 60
 Arg Gly Leu Ser Ala Glu Asp Glu Pro Glu Ala Trp Leu Arg Asn Asp
 65 70 75 80
 His Leu Gly Ile Asp Leu Trp Ile Glu Leu Gly Leu Pro Asp Glu Arg
 85 90 95
 Arg Ile Lys Lys Ala Cys Thr Gln Ser Ala Glu Val Ala Leu Phe Ala
 100 105 110
 Tyr Asn Gln Arg Ala Ala Asp Ile Trp Trp Gln Gln Asn Lys Asn Lys
 115 120 125
 Cys Ala Gln Phe Lys Asn Leu Thr Val Trp Tyr Leu Asp Asp Glu Gln
 130 135 140
 Leu Ala Gln Leu Ser Ala Phe Ala Ser Arg Thr Met Ala Leu Gln Ala
 145 150 155 160
 Thr Ile Gln Asp Gly Ala Ile Trp Leu Ser Asp Ser Gln Asn Asn Leu
 165 170 175
 Glu Ile His Leu Thr Ala Trp Gln Pro Ala Ser
 180 185

<210> 6129

<211> 61
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6129
 Arg Pro Thr Asn Gln Asp Ser Pro Pro Asn Ile Pro Thr Ala Arg Lys
 1 5 10 15
 Arg Met Gln Ile Asn Ala Ser Lys Met Lys Ala Asn Ala Val Leu Leu
 20 25 30
 His Thr Cys Glu Val Thr Ser Gly Thr Pro Gly Cys Tyr Arg Gln Ala
 35 40 45
 Val Cys Ile Gly Ser Ala Leu Asn Ile Thr Ala Lys
 50 55 60

<210> 6130
 <211> 98
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6130
 Ala Leu Ser Ala Pro Leu Ile Lys Lys Ser Ser Pro Cys Arg Val Ser
 1 5 10 15
 Arg Val Trp Ser Phe Thr Ala Ala Ala Ser Phe Ile Leu Ser Arg Arg
 20 25 30
 Ile Thr Arg Pro Met Gln Cys Ala Gly Leu Arg Arg Ser Ala Ile Tyr
 35 40 45
 Gly Trp Ser Leu Cys Phe Thr Arg Pro Trp Lys Ala Ala Gly Val Pro
 50 55 60
 Leu Cys Val Leu Leu Val Trp Ala Glu Met Pro Glu Trp Gly Ser Leu
 65 70 75 80
 Pro Pro Ala Gln Pro Phe Val Pro Thr Pro Ser Glu Cys Arg Trp Ser
 85 90 95
 Ser

<210> 6131
 <211> 595
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6131
 Thr Thr Phe Phe Val Ser Gly Trp Cys Phe Ser Leu Phe Gln Ser Ser
 1 5 10 15
 Lys Trp Asn Arg Asn Asn Met Arg Thr Ser Gln Tyr Leu Leu Ser Thr
 20 25 30
 Leu Lys Glu Thr Pro Ala Asp Ala Glu Val Ile Ser His Gln Leu Met
 35 40 45
 Leu Arg Ala Gly Met Ile Arg Lys Leu Ala Ser Gly Leu Tyr Thr Trp
 50 55 60
 Leu Pro Thr Gly Val Arg Val Leu Lys Lys Val Glu Asn Ile Val Arg
 65 70 75 80
 Glu Glu Met Asn Asn Ala Gly Ala Ile Glu Val Leu Met Pro Val Val
 85 90 95
 Gln Pro Ser Glu Leu Trp Gln Glu Ser Gly Arg Trp Glu Gln Tyr Gly
 100 105 110
 Pro Glu Leu Leu Arg Ile Ala Asp Arg Gly Asp Arg Pro Phe Val Leu
 115 120 125
 Gly Pro Thr His Glu Glu Val Ile Thr Asp Leu Ile Arg Asn Glu Leu
 130 135 140
 Ser Ser Tyr Lys Gln Leu Pro Leu Asn Phe Phe Gln Ile Gln Thr Lys
 145 150 155 160

Phe Arg Asp Glu Val Arg Pro Arg Phe Gly Val Met Arg Ser Arg Glu
 165 170 175
 Phe Leu Met Lys Asp Ala Tyr Ser Phe His Thr Ser Gln Glu Ser Leu
 180 185 190
 Gln Glu Thr Tyr Asp Lys Met Tyr Ala Ala Tyr Ser Lys Ile Phe Ser
 195 200 205
 Arg Met Gly Leu Asp Phe Arg Ala Val Gln Ala Asp Thr Gly Ser Ile
 210 215 220
 Gly Gly Ser Ala Ser His Glu Phe Gln Val Leu Ala Gln Ser Gly Glu
 225 230 235 240
 Asp Asp Val Ile Phe Ser Asp Ser Ser Asp Tyr Ala Ala Asn Ile Glu
 245 250 255
 Phe Ala Glu Ala Leu Ala Pro Lys Glu Pro Arg Gly Ala Ala Thr Gln
 260 265 270
 Glu Met Thr Leu Val Asp Thr Pro Asn Ala Lys Thr Ile Ala Glu Leu
 275 280 285
 Val Glu Gln Phe Thr Leu Pro Ile Glu Lys Thr Val Lys Thr Leu Leu
 290 295 300
 Val Lys Ser Ala Glu Gly Ser Ala Tyr Pro Leu Val Ala Leu Leu Val
 305 310 315 320
 Arg Gly Asp His Glu Leu Asn Glu Val Lys Ala Glu Lys Leu Pro Gln
 325 330 335
 Val Ala Ser Pro Leu Thr Phe Ala Thr Glu Ala Glu Ile Arg Ala Val
 340 345 350
 Val Asn Ala Gly Pro Gly Ser Leu Gly Pro Val Asn Met Pro Val Pro
 355 360 365
 Val Val Ile Asp Arg Thr Val Ala Ala Met Ser Asp Phe Ala Ala Gly
 370 375 380
 Ala Asn Ile Asp Gly Lys His Tyr Phe Gly Ile Asn Trp Asp Arg Asp
 385 390 395 400
 Val Ala Thr Pro Glu Val Ala Asp Ile Arg Asn Val Val Ala Gly Asp
 405 410 415
 Pro Ser Pro Asp Gly Lys Gly Thr Leu Met Ile Lys Arg Gly Ile Glu
 420 425 430
 Val Gly His Ile Phe Gln Leu Gly Asp Lys Tyr Ser Arg Ala Met Asn
 435 440 445
 Ala Ala Val Gln Gly Glu Asp Gly Arg Asn Gln Val Leu Thr Met Gly
 450 455 460
 Cys Tyr Gly Ile Gly Val Thr Arg Val Val Ala Ala Ile Glu Gln
 465 470 475 480
 Asn Tyr Asp Glu Arg Gly Ile Val Trp Pro Asp Asn Ile Ala Pro Phe
 485 490 495
 Gln Val Ala Ile Leu Pro Met Asn Met His Lys Ser Tyr Arg Val Gln
 500 505 510
 Glu Leu Ala Glu Lys Leu Tyr Ala Glu Leu Ser Ala Lys Gly Ile Asp
 515 520 525
 Val Leu Met Asp Asp Arg Lys Glu Arg Pro Gly Val Met Phe Ala Asp
 530 535 540
 Met Glu Leu Ile Gly Ile Pro His Thr Ile Val Ile Gly Asp Arg Asn
 545 550 555 560
 Leu Asp Ser Asp Glu Ile Glu Tyr Lys Tyr Arg Arg Asn Gly Glu Lys
 565 570 575
 Gln Met Ile Lys Thr Gly Asp Ile Leu Asp Tyr Leu Val Lys Ala Ile
 580 585 590
 Lys Gly
 595

<210> 6132

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 6132

Val Ser Thr Leu Ala Gly Gly Asp Val Asn Asn Tyr Cys Glu Leu Ile
 1 5 10 15
 Arg Arg Arg Tyr Ala Glu Ile Ala Ser Gly Asp Leu Gly Tyr Ile Pro
 20 25 30
 Asp Ala Leu Gly Cys Val Leu Asn Val Leu Asn Glu Val Ala Ser Asp
 35 40 45
 Glu Ser Leu Ser Glu Ser Val Ser Gly Thr Ala Gly Phe Gln His Ala
 50 55 60
 Ala Pro Asp His Thr Val Leu Ser Pro Gly Gly
 65 70 75

<210> 6133

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6133

His Tyr Gly Glu Met Ser Ser Phe Gln Phe Glu His Ile Gly Val Ile
 1 5 10 15
 Arg Ser Pro Tyr Lys Glu Lys Phe Ala Val Pro Arg Gln Pro Gly Leu
 20 25 30
 Val Ile His Gly Gly Gly Glu Leu His Leu Val Ala Pro Tyr Asn Gln
 35 40 45
 Ala Asp Ala Val Arg Gly Leu Glu Ala Phe Ser His Leu Trp Val Val
 50 55 60
 Phe Val Phe His Gln Thr Met Glu Gly Gly Trp Arg Pro Thr Val Arg
 65 70 75 80
 Pro Pro Arg Leu Gly Gly Asn Ala Arg Met Gly Val Phe Ala Thr Arg
 85 90 95
 Ser Thr Phe Arg Pro Asn Pro Ile Gly Met Ser Leu Val Glu Leu Lys
 100 105 110
 Gly Ile Arg Cys Gln Arg Asp Gln Val Ile Leu Glu Leu Gly Ser Leu
 115 120 125
 Asp Leu Val Asp Gly Thr Pro Val Ile Asp Ile Lys Pro Tyr Leu Pro
 130 135 140
 Phe Ala Glu Ala Leu Pro Asp Ala Arg Ala Ser Tyr Ala Gln Asp Ala
 145 150 155 160
 Pro Gln Ala Asp Met Pro Val His Phe Thr Ser Glu Ile Thr Thr Gln
 165 170 175
 Ile Ser Glu Leu Glu Lys Arg Tyr Pro Arg Leu Arg Asp Phe Ile Val
 180 185 190
 Glu Val Leu Ala Gln Asp Pro Arg Pro Ala Tyr Arg Lys Glu Glu Glu
 195 200 205
 Ala Gly Lys Thr Tyr Ala Val Trp Leu Leu Asp Phe Asn Val Arg Trp
 210 215 220
 Arg Val Thr Ala Ala Gly Phe Glu Val Phe Ala Leu Glu Pro Arg
 225 230 235 240

<210> 6134

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6134

Glu Arg Asn Trp Gly Met Lys Ser Lys Ile Arg Tyr Val Leu Ser Gly
 1 5 10 15
 Phe Val Val Leu Cys Ala Phe Ala Gly Val Tyr Lys Ile Leu Asn Asn
 20 25 30
 Val Pro Val Lys Pro Asp Leu Leu Asp Phe Thr Gly Asn Thr Phe Lys

35 40 45
 Lys Thr Ser Leu Phe Leu Pro Cys Asp Lys Ser Ser Pro Ser Leu Asn
 50 55 60
 Ile Lys Ile Ala Asp Asn Glu Lys Ile Val Ile Asn Gly Ile Ala Ser
 65 70 75 80
 Lys Val Thr Phe Val Glu Lys Ala Asp Pro Val Lys Ser Pro Gly Phe
 85 90 95
 Cys Asp Asp Leu Asp Leu Asn Asn Ser Arg Leu Val His Thr Ala Ser
 100 105 110
 Tyr Ser Leu Val Ile Ser Glu Thr Lys Thr Gly Phe Thr Leu Ser Asn
 115 120 125
 Phe Lys His Leu Ala Asp Asp Glu Ser Leu Gly Gly Met Trp Phe Tyr
 130 135 140
 Gln Lys
 145

<210> 6135

<211> 1226

<212> PRT

<213> Enterobacter cloacae

<400> 6135

Phe Cys Ser Glu Lys Gln Val Phe Val Met Arg Lys Ser Gly Leu Gly
 1 5 10 15
 Leu Ala Leu Leu Phe Ser Leu Ile Ala Pro Ile Lys Ala Val Tyr Ala
 20 25 30
 Glu Ala Ile Met Ile Ser Gly Lys Leu Gln Ala Asp Leu Pro Ala Val
 35 40 45
 Ser Phe Asp Pro Gly Pro Gly Asp Phe Val Ala Tyr Val Asn Ser Asn
 50 55 60
 Thr Ile Thr Ala Ser Gly Ala Gly Thr Ala Cys Asn Val Thr Val Asp
 65 70 75 80
 Asp Arg Ala Thr Ser Ser Val Asp Asn Leu Val Cys Phe Phe Glu Trp
 85 90 95
 Leu Pro Asn Thr Leu Gly Leu Thr Ser Asn Gly Phe Ile Leu Ser Gly
 100 105 110
 Val Pro Tyr Thr Thr Gly Asp Leu Lys Leu Pro Tyr Lys Ile Ser Tyr
 115 120 125
 Phe Ser Gly Ser Glu Arg Lys Lys Val Glu Ile Val Lys Gly Glu Tyr
 130 135 140
 Ser Ile Lys Ser Val Ala Pro Val Lys Pro Thr Ile Thr Gly Leu Lys
 145 150 155 160
 Ser Ser Leu Asn Gly Leu Val Tyr Asp Gly Phe Ser Phe Lys Ser Tyr
 165 170 175
 Leu Lys Asp Glu Ala Ile Lys Asp Ile Ala Val Ser Val Glu Pro Arg
 180 185 190
 Asn Tyr Ile Gln Tyr Ile Ser Ile Gly Ser Gly Ser Ala Cys Glu Val
 195 200 205
 Pro Ile Gly Gly Thr Ser Cys Thr Ile Glu Val Gly Ser Ile Lys Ala
 210 215 220
 Ser Asp Thr Asp Glu Leu Leu Gly Ser Arg Asp Ile Thr Ile Thr Ala
 225 230 235 240
 Asn Ser Lys Asn Asn Tyr Phe Ala Pro Pro Glu Ser Lys Lys Leu Val
 245 250 255
 Val Asn Trp Asp Tyr Arg Pro Pro Val Val Asp His Thr Leu Trp Asn
 260 265 270
 Phe Thr Asp Glu Ala Lys Thr Ile Lys Val Gly Gly Gln Asp Ile Tyr
 275 280 285
 Thr Gly Ala Lys Thr Val Ala Val Ala Val Lys Val Pro Gln Gln Glu
 290 295 300
 Thr Glu Gly Glu Trp Trp Leu Pro Thr Ala Met Ser Leu Thr Met Thr

305 310 315 320
 Pro Asp Gly Val Phe Lys Pro Thr Thr Lys Val Thr Leu Asp Asp Gly
 325 330 335
 Thr Glu Ile Asp Phe Lys Gln Ser Trp Ala Thr Pro Leu Arg Arg Thr
 340 345 350
 Leu Gln Pro Val Ser Gly Pro Gln Lys Val Gly Asp Glu Tyr Leu Tyr
 355 360 365
 Ile Phe Asp Leu Thr Asp Leu Ile Asn Gly Ser Tyr Ala Ala Thr Phe
 370 375 380
 Thr Val Glu Asn Thr Ser Lys Asn Ser Ser Thr Tyr Thr Glu Pro Glu
 385 390 395 400
 Ser Lys Leu Met Leu Ser Asp Asn Pro Thr Leu Met Val Leu Lys Asp
 405 410 415
 Gly Gln Val Leu Thr Lys Arg Ala Pro Val Tyr Phe Leu Asn Glu Ile
 420 425 430
 Ile Val Ala Ala Phe Gln Gly Gln Ala Gly Val Ala Asp Ile Lys Ser
 435 440 445
 Val Thr Ile Asp Asn Lys Val Val Ser Leu Thr Pro Thr Asn Tyr Lys
 450 455 460
 Gly Ile Tyr Tyr Leu Pro Val Gly Asp Asp Leu Ala Val Asn Ser Asp
 465 470 475 480
 His Glu Ile Thr Val Val Ala Glu Asn Leu Tyr Gly Lys Asn Val Asn
 485 490 495
 Phe Ser Thr Val Phe Thr Tyr Gln Pro Thr Gly Phe Thr Leu Lys Asn
 500 505 510
 Leu Glu Lys Asn Val Thr Leu Tyr Ser Arg Val Arg Gln Tyr Thr Asp
 515 520 525
 Leu Leu Ser Gln Thr Ala Gly Asp Lys Cys Thr Leu Phe Thr Thr Glu
 530 535 540
 Glu Asn Ala Asn Ala Tyr Leu Ala Trp Tyr Gly Glu Lys Ser Asp Val
 545 550 555 560
 Thr Ala Cys Tyr Pro Gln Trp Asn Asn Val Pro Asp Gly Leu Glu Phe
 565 570 575
 Tyr Phe Lys Gly Arg Thr Pro Gly Leu Thr Gly Phe Phe Asn Lys Thr
 580 585 590
 Gly Glu Asn Leu Leu Asp Tyr Gln Val Tyr Met Ile Asn Gly Lys Gly
 595 600 605
 Ser Lys Ala Val Ser Ala Arg Asn Arg Arg Thr Leu Thr Thr Gln Leu
 610 615 620
 Pro Tyr Asn Pro Ile Ile Ser Tyr Lys Lys Asn Lys Val Ile Ala Gly
 625 630 635 640
 Ile Asn Pro Asn Thr Ala Leu Ala Tyr Thr Thr Gly Gly Glu Ala Ala
 645 650 655
 Arg Ile Leu Ala Lys Val Val Pro Ala Asp Val Thr Met Ile Val Ser
 660 665 670
 Gln Asn Gly Ser Glu Ala Val Lys Thr Ser Phe Lys Asn Arg Ser Ser
 675 680 685
 Asn Asn Asp Ala Thr Thr Phe Val Gln Arg Val Lys Val Ala Ala Ala
 690 695 700
 Pro Leu Trp Thr Lys Asn Val Phe Asp Ile Ala Val Glu Tyr Ser Lys
 705 710 715 720
 Asp Pro Glu Leu Arg Thr Thr Asp Thr Leu Asn Val Tyr Thr Val Pro
 725 730 735
 Asp Phe Asn Ile Arg Ala Ser Met Glu Val Asp Asp Lys Lys Thr Ala
 740 745 750
 Thr Ser Leu Glu Val Pro Leu Lys Val Thr Val Gly Arg Tyr Asn Asn
 755 760 765
 Ser Thr Arg Lys Ser Ala Phe Asp Arg Lys Thr Met Gly Glu Trp Asp
 770 775 780
 Val Thr Ile Tyr Ser Gln Lys Ser Val Tyr Gly Lys Asp Pro Glu Thr
 785 790 795 800

Gly Arg Tyr Lys Thr Thr Tyr Glu Arg Thr Ala Leu Thr Glu Ala Leu
 805 815
 Pro Val Asn Asp Ala Gly Ile Val Glu Thr Lys Ile Lys Ile Glu Asn
 820 825 830
 Met Asp Leu Gly Asn Met Arg Leu Val Gly Val Ala Lys Val Arg Ser
 835 840 845
 Pro Phe Ser Asp Phe Glu Met Lys Arg Glu Thr Ser Ala Val Gly Ile
 850 855 860
 Arg Ile Tyr Lys Gly Glu Glu Leu Glu Gly Asn Leu Ser Lys Ser Leu
 865 870 875 880
 Ile Ile Gly Arg Ile Pro Leu Ser Thr Leu Val Ser Phe Lys Ser Ala
 885 890 895
 Ser Thr Ala Asn Ser Asp Ala Leu Ala Pro Thr Glu Trp Gln Gln Ser
 900 905 910
 Ser Asp Asn Gly Gln Thr Trp Thr Met Leu Ser Asp Met Thr Gly Lys
 915 920 925
 Arg Ser Val Ser Ile Lys Lys Thr Glu Val Gly Lys Trp Leu Tyr Arg
 930 935 940
 Ala Lys Met Thr Asn Lys Phe Thr Ser Lys Ile Ser Tyr Thr Asp Ala
 945 950 955 960
 Leu Thr Val Val Thr Tyr Lys Gln Pro Lys Leu Ser Ile Asp Val Thr
 965 970 975
 Asp Ile Leu Gln Gly Ser Asp Ile Pro Val Thr Leu Leu Asp Asn Asp
 980 985 990
 Glu Pro Ile Pro Ala Gly Thr Ala Glu Val Leu Trp Ser Glu Asp Lys
 995 1000 1005
 Val Asn Trp Val Gln Gly Asp Thr Thr Thr Val Ala Ser Ala Asp
 1010 1015 1020
 Thr Leu Pro Ser Thr Ile Tyr Ala Arg Met Arg Tyr Leu Asp Ser Asp
 1025 1030 1035 1040
 Glu Leu Ala Glu Glu Ser Ser Trp Lys Glu Thr Ser Ala Arg Leu Ala
 1045 1050 1055
 Ala Ala Lys Pro Lys Arg Leu Ser Val Ser Val Thr Gly Val Ser Lys
 1060 1065 1070
 Val Glu Val Gly Gln Lys Val Thr Leu Glu Gly Lys Phe Thr Asn Pro
 1075 1080 1085
 Asn Ser Lys Tyr Gln Asn Gly Asn Asn Val Val Glu Glu Trp Lys Thr
 1090 1095 1100
 Pro Asp Gly Gln Thr Phe Lys Gly Ser Ser Leu Ser Val Thr Leu Thr
 1105 1110 1115 1120
 Glu Gln Met Leu Asp Lys Gln Gly Tyr Ala Ala Phe Glu Tyr Ser Ala
 1125 1130 1135
 Trp Leu Ala Asp Asn Lys Glu Asn Thr Val Ser Thr Arg Arg Val Ser
 1140 1145 1150
 Val Lys Ser Trp Val Tyr Lys Phe Pro Glu Met Lys Ile Ser Ser Lys
 1155 1160 1165
 Leu Lys Tyr Asp Met Ala Pro Thr Thr Leu Arg Val Ala Leu Ser Gly
 1170 1175 1180
 Ile Lys Asp Gly Asp Tyr Pro Gly Val Thr Tyr Ser Arg Glu Trp Ile
 1185 1190 1195 1200
 Tyr Asp Lys Glu Asn Leu Val Ile Thr Thr Asp Val Phe Thr Thr Glu
 1205 1210 1215
 Leu Ala Gly Pro Ala Pro Lys Gly Met Gly
 1220 1225

<210> 6136

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 6136

Leu Ile Ile Ile Ile Lys Ala Asp Arg Met Leu Ser Arg Asn Ser Leu
 1 5 10 15
 Ile His Gly Leu Arg Arg Asp Gln Leu Ile Gly Val Leu Thr Ile Ser
 20 25 30
 Glu Phe Pro Val Val Met Val Glu Ser His Phe Ile Gln Ser Glu Val
 35 40 45
 Met Gly Ile Lys Pro Val Ile Phe Asn Ile Asp Glu Leu Leu Val Ser
 50 55 60
 Ile Ser Pro Ile Ser Ser Leu Lys Phe Asp Trp Glu Trp Ala Pro Val
 65 70 75 80
 Asp Thr Ile Leu Ile Glu Val Ile Ile Pro Pro Val Glu Ser Asp Leu
 85 90 95
 Val Ser Ala Glu Asn Asp Phe Leu Arg Asp Ser Gly Ile Gly His Ile
 100 105 110
 Gln Cys Glu Pro Gly Gly Ala Ser Ile Arg Arg Thr Val Thr Phe Val
 115 120 125
 Gly Gly Ile Thr Ala Asp Asn Leu Leu Tyr Gln Leu Arg Leu Met Cys
 130 135 140
 Val Ser Ala Leu Lys Leu Leu Gly Glu Glu Leu Gly Asp Glu Val
 145 150 155 160

<210> 6137

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6137

Ile Ile Arg Arg Tyr Val Val Leu Ser Lys Val Thr Phe Tyr Met Ala
 1 5 10 15
 Thr Ser Asp Phe Ala Leu Lys Asn His Asn Val Lys Ala Phe Gly Gln
 20 25 30
 Asp Ala Ala Leu Val Ile Glu Met Asn Asn Glu Asp Val Ser Ser Ser
 35 40 45
 Lys Pro Ser Pro Phe Ser Asn Glu Ile Asp Asn Tyr Tyr Leu Thr Leu
 50 55 60
 His Val Ala Pro Arg Asn Ala Lys Lys Asp Tyr Asp Trp Gly Ser Asn
 65 70 75 80
 Arg Ser Val Leu Leu Lys Leu Ser Thr Asn Glu Val Met Gln Met Ala
 85 90 95
 Ser Val Phe Leu Arg Ile Met His Thr Leu Lys Ile Asp Lys Arg Lys
 100 105 110
 Thr Ser His His Gly His Val Val Tyr Lys Asn Ile Ser Val Thr Pro
 115 120 125
 Asn Glu Arg Gly Gly Leu Leu Leu Ser Ala Gly Ile Val Pro Val Asp
 130 135 140
 Lys Asp Gly Leu Lys Pro Phe Met His Met Val Pro Val Ser Gln Met
 145 150 155 160
 Asp Cys Val Lys Ile Gly Leu Tyr Ile Leu Gly Tyr Leu Ala Gln Lys
 165 170 175
 Thr Pro Trp Val Ser Ser Glu Ser Ile Ile Thr Ala Leu Arg Leu Ser
 180 185 190
 Glu Ala Lys Asn Ser Lys
 195

<210> 6138

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 6138

Gln Phe Lys Leu Leu Asn Pro Leu Lys Gly Val Phe Met Ala Ile Pro

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1           5           10           15
Ala Tyr Leu Trp Leu Lys Asp Asp Gly Gly Ala Asp Ile Lys Gly Ala
20 25 30
Val Asp Val Gln Asp Arg Glu Gly Ser Ile Glu Val Leu Gly Phe Gly
35 40 45
His Gly Leu His Leu Pro Thr Asp Asn Met Thr Gly Lys Ile Thr Gly
50 55 60
Thr Arg Val His Ser Ala Leu Val Phe Glu Lys Glu Phe Asp Ser Ser
65 70 75 80
Ser Pro Tyr Leu Tyr Lys Ala Val Ala Lys Gly Gln Thr Leu Lys Ser
85 90 95
Ala Glu Phe Lys Trp Tyr Lys Ile Asn Asp Ala Gly Gln Glu Ala Glu
100 105 110
Tyr Phe Asn Met Lys Leu Glu Asn Val Lys Val Val Ser Ile Cys Pro
115 120 125
Met Met His Asp Val Lys Asn Pro Ala Thr Glu Lys His Asn His Leu
130 135 140
Glu Ser Val Ala Leu Arg Tyr Glu Lys Ile Thr Trp Lys His Cys Asp
145 150 155 160
Gly Asn Ile Ile Phe Ser Asp Glu Trp Lys Asp Arg
165 170

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<210> 6139

<211> 428

<212> PRT

<213> Enterobacter cloacae

<400> 6139

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Ile Cys Glu Leu Asn Met Phe Ala Leu Cys Asp Val Asn Ser Phe Tyr
1 5 10 15
Ala Ser Cys Glu Thr Val Phe Arg Pro Asp Leu Arg Gly Arg Pro Val
20 25 30
Val Val Leu Ser Asn Asn Asp Gly Cys Val Ile Ala Arg Ser Ala Glu
35 40 45
Ala Lys Ala Ala Gly Ile Thr Met Gly Glu Pro Phe Phe Lys Gln Lys
50 55 60
Glu Leu Phe Arg Arg Ala Gly Val Val Cys Phe Ser Ser Asn Tyr Glu
65 70 75 80
Leu Tyr Ala Asp Met Ser Asn Arg Val Met Thr Thr Leu Glu Glu Met
85 90 95
Ser Pro Arg Val Glu Ile Tyr Ser Ile Asp Glu Ala Phe Cys Asp Leu
100 105 110
Thr Gly Val Arg Asn Cys Arg Asp Leu Thr Glu Phe Gly Lys Glu Ile
115 120 125
Arg Ala Thr Val Leu Lys Arg Thr His Leu Thr Val Gly Val Gly Ile
130 135 140
Ala Gln Thr Lys Thr Leu Ala Lys Leu Ala Asn His Ala Ala Lys Lys
145 150 155 160
Trp Gln Arg Gln Thr Gly Gly Val Val Asp Leu Ser Asn Ile Asp Arg
165 170 175
Gln Arg Arg Leu Ala Leu Val Pro Val Glu Asp Val Trp Gly Val
180 185 190
Gly Arg Arg Ile Ser Lys Lys Leu Asn Ala Met Gly Ile Lys Thr Ala
195 200 205
Leu Asp Leu Ser Glu Gln Ser Thr Trp Ile Ile Arg Lys His Phe Asn
210 215 220
Val Val Leu Glu Arg Thr Val Arg Glu Leu Arg Gly Glu Pro Cys Leu
225 230 235 240
Glu Leu Glu Glu Phe Ala Pro Ala Lys Gln Glu Ile Val Cys Ser Arg
245 250 255
Ser Phe Gly Glu Arg Val Thr Glu Tyr Glu Gln Met Arg Gln Ala Ile

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          260          265          270
Cys Ser Tyr Ala Ala Arg Gly Ala Glu Lys Leu Arg Gly Glu His Gln
          275          280          285
Tyr Cys Arg Phe Ile Ser Ala Phe Val Lys Thr Ser Pro Phe Ala Leu
          290          295          300
Asn Glu Val Tyr Tyr Gly Asn Ser Ala Ser Met Lys Leu Leu Thr Pro
          305          310          315
Thr Gln Asp Ser Arg Asp Ile Ile Asn Ala Ala Val Lys Cys Leu Asp
          320          325          330
Lys Ile Trp Lys Asp Gly His Arg Tyr Gln Lys Ala Gly Ile Met Leu
          335          340          345
Gly Asp Phe Phe Ser Gln Gly Val Ala Gln Leu Asn Leu Phe Asp Glu
          350          355          360
Asn Ala Pro Arg Ala Gly Ser Glu Arg Leu Met Glu Val Leu Asp His
          365          370          375
Leu Asn Ala Lys Asp Gly Lys Gly Thr Leu Tyr Phe Ala Gly Gln Gly
          380          385          390
Val Gln Gln Gln Trp Gln Met Lys Arg Glu Met Leu Ser Pro Arg Tyr
          395          400          405
Thr Thr Arg Ile Ser Asp Ile Leu Lys Val Arg
          410          415          420
          425

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<210> 6140

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 6140

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Ser Leu Ser Ser Gln Leu Lys Leu Leu Tyr Ile Lys Thr Val Phe Glu Val
1          5          10          15
Cys Asn Met Glu Phe Ile Arg Pro Ala Glu Leu Arg Glu Ile Ile Ala
          20          25          30
Leu Pro Leu Phe Ser Asp Leu Val Gln Cys Gly Phe Pro Ser Pro Ala
          35          40          45
Ala Asp Tyr Val Glu Glu Arg Ile Asp Leu Asn Glu Leu Leu Val Ala
          50          55          60
His Pro Ser Ser Thr Tyr Phe Val Lys Ala Ala Gly Asp Ser Met Ile
          65          70          75
Glu Ala Gly Ile Ser Asp Gly Asp Leu Leu Val Val Asp Ser Ser Arg
          80          85          90
Thr Ala Glu His Gly Asp Ile Val Ile Ala Ala Val Glu Gly Glu Phe
          95          100          105
Thr Val Lys Arg Leu Gln Leu Arg Pro Lys Val Gln Leu Asn Pro Met
          110          115          120
Asn Ser Ala Tyr Ser Pro Ile Val Val Gly Ser Glu Asp Thr Leu Asp
          125          130          135
Val Phe Gly Val Val Thr Phe Ile Val Lys Ser Ala Ser
          140          145          150
          155

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<210> 6141

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 6141

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Arg Lys Glu Phe Cys Met Asn Val Lys Pro Ser Leu Asp Glu Leu Phe
1          5          10          15
Glu Arg Arg Ile Asn Phe Pro Asp Phe Glu Pro Gln Glu Arg Leu Ala
          20          25          30
Arg Leu Val Gly Leu Asp Glu His Lys Asp Arg Leu Ser Lys Ile Leu
          35          40          45

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Gly Leu Leu Val Asn Pro Tyr Gly Ile Gln Glu Trp Ala Lys Lys Tyr
 50 55 60
 His Pro Asp Ala Arg Ala Ala Val Asp Thr Val Leu Arg Arg Pro Pro
 65 70 75 80
 Leu Val Val Leu Ala Gly Asp Val Gly Ser Gly Lys Thr Glu Leu Ala
 85 90 95
 Glu Thr Ile Gly Asp Ala Val Ala Arg Gln Glu Asp Ile Asp Ile Thr
 100 105 110
 Leu Tyr Pro Leu Ser Leu Ala Thr Arg Gly Gln Gly Arg Val Gly Glu
 115 120 125
 Met Thr Gln Leu Val Ser Ala Ala Phe Asp Tyr Thr Ile Glu Ala Ala
 130 135 140
 Asp Lys Leu Lys Asn Thr Asn Gly Lys Ala Arg Gly Ala Val Leu Leu
 145 150 155 160
 Leu Ile Asp Glu Ala Asp Ala Leu Ala Gln Ser Arg Glu Asn Ala Gln
 165 170 175
 Met His His Glu Asp Arg Ala Gly Val Asn Ala Phe Ile Arg Gly Ile
 180 185 190
 Asp Arg Ile Ala Asn Gln Lys Leu Pro Ala Ala Val Leu Met Cys Thr
 195 200 205
 Asn Arg Leu Lys Ala Leu Asp Pro Ala Val Gln Arg Arg Ala Ala Glu
 210 215 220
 Val Leu Thr Phe Ser Arg Pro Asn Asp Glu Gln Arg His Tyr Leu Leu
 225 230 235 240
 His Ser Lys Leu Thr Gly Leu Gly Leu Asn Ser Thr Ala Ile Glu Glu
 245 250 255
 Leu Val Arg Leu Thr Gly Pro Arg Asp Thr Asn Ser Pro Gly Phe Thr
 260 265 270
 Phe Ser Asp Ile Thr Gln Arg Leu Ile Pro Ser Ile Ile Leu Thr Ala
 275 280 285
 Tyr Pro Tyr Ser Ala Val Ser Val His Ser Ala Leu Gln Val Val Asn
 290 295 300
 Lys Met Thr Pro Thr Pro Ala Phe Ile Asp Arg
 305 310 315

<210> 6142

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 6142

Asn Ser Asn Leu Leu Asn Asn Arg Thr Ile Cys Pro Gln Val Arg Met
 1 5 10 15
 His Met Ser Gly Phe Gln Glu Trp Leu Leu Ser Lys Ala Thr Gly Asn
 20 25 30
 Tyr Phe Leu Tyr Ile Lys Arg Leu Ser Ala Asn Asp Thr Gly Ala Thr
 35 40 45
 Gly Gly His Gln Val Gly Leu Tyr Ile Pro Ser Gly Ile Val Ala Glu
 50 55 60
 Leu Phe Pro Ser Ile Asp Asn Thr Lys Glu Gln Asn Pro Ser Val Phe
 65 70 75 80
 Leu Asn Ala Thr Tyr Ser Ser His Val Cys Ser Asp Ser Glu Ala Arg
 85 90 95
 Ala Ile Tyr Tyr Asn Gly Ser Phe Phe Gly Lys Thr Arg Asn Glu Lys
 100 105 110
 Arg Ile Thr Arg Trp Gly Pro Gly Ser Pro Leu Gln Asp Pro Glu Asn
 115 120 125
 Thr Gly Gly Leu Ser Ile Leu Ala Phe Glu His Glu Pro Gly Ser Asp
 130 135 140
 Ser Lys Asn Val Asp Val Trp Val Cys Lys Asn Pro Asp Glu Glu Asp
 145 150 155 160

Ile Val Glu Ser Ile Leu Gly Glu Ile Ile Pro Gly Ala Leu
165 170

<210> 6143

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6143

Pro Lys Ser Leu Leu Ile Gln Leu Gly Pro Asn Pro Gly Thr Phe Arg
1 5 10 15
Arg Val Leu Asn Asn Lys Lys Phe His Leu Pro Phe Pro Asn Gln Lys
20 25 30
Pro Asn Glu Phe Gly Ser Leu Asn Thr Pro Gln Leu Pro Asn Gly Ser
35 40 45
Phe Pro Gly Val Pro Gly Ala Asn Thr Pro Ala Gly Val Leu Ser Ile
50 55 60
Pro Leu Leu Leu Pro Thr Gly Asp Ile Phe Pro Ala Arg Tyr Glu Leu
65 70 75 80
Val

<210> 6144

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 6144

Thr Met Ile Cys Ala Ala Cys Arg Lys Pro Ala Val Gly Ala Gly Met
1 5 10 15
Thr Ile Thr Arg Ser Gly Val Met Arg Ala Pro Leu Ala Met Arg
20 25 30
Leu Arg Ala Asn Ser Thr Trp Ala Met Leu Glu Phe Val Phe Asn Gly
35 40 45
Met Val Phe Leu Leu Leu Gly Leu Gln Leu Pro Gly Gln Leu Trp Lys
50 55 60
Ser Ser Ala Glu Leu Pro Ala Gln Ser Arg Phe Gln Asn Leu Gly Asn
65 70 75 80
Ser Gly Ile Pro Ile Asn Arg Asn Pro Cys Ser Ser Asn Leu Ala Leu
85 90 95
Ile Leu Val Leu Ser Gly Gly Phe
100 105

<210> 6145

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6145

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
1 5 10 15
Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
20 25 30
Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
35 40 45
Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
50 55 60
Leu Lys Ser Leu Glu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
65 70 75 80
Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
85 90 95

Tyr

<210> 6146

<211> 703

<212> PRT

<213> Enterobacter cloacae

<400> 6146

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Pro Glu Arg Gly Trp Glu Pro Ile Met Ser Asp Ser Lys Arg Thr Asn
1      5      10      15
Leu His Ala Gln Glu Asn Phe Tyr Arg Pro Ile Leu Glu Tyr Arg Ser
20      25      30
Ala Ser Ile Leu Leu Ile Cys Ser Val Ser Met Leu Tyr Met Gly Leu
35      40      45
Ser Ser Asp Gly Leu Asp Ile Ala Pro Ile Val Leu Phe Thr Ser Ile
50      55      60
Leu Leu Phe Leu Leu Cys Leu Tyr Arg Cys Lys Thr Ala Ala Pro Phe
65      70      75      80
Leu Met Ala His Trp Arg Val Phe Lys Arg His Phe Met Phe Val Ser
85      90      95
Leu Asp Ser Leu Arg Val Ile Asn Lys Ser Asn Phe Phe Ser Asn Glu
100     105     110
Arg Lys Tyr Arg Gln Leu Val Gln Asp Tyr Gln Asn Lys Asn Lys Asp
115     120     125
Ile Pro Glu Arg Lys Ser Tyr Phe Cys Asp Gly Phe Glu Trp Gly Pro
130     135     140
Glu His Ala Asp Arg Ala Tyr Gln Ile Ala Asn Leu Ser Ser Asp Lys
145     150     155     160
Arg Glu Ile Glu Leu Pro Phe Val Phe Asn Pro Ile Lys Arg His Phe
165     170     175
Asp Ala Met Ala Arg Lys Met Gly Gly Ser Asn Ala Ile Phe Ala Val
180     185     190
Glu Arg Arg Glu Pro Ile Phe Val Thr Glu Asp Asn Trp Phe Gly His
195     200     205
Thr Leu Ile Thr Gly Asn Val Gly Thr Gly Lys Thr Val Leu Gln Arg
210     215     220
Leu Leu Ser Ile Ser Met Leu His Leu Gly His Val Val Val Ile
225     230     235     240
Asp Pro Lys Asn Asp Ala Glu Trp Arg Glu Ser Leu Met Glu Glu Ala
245     250     255
Lys Thr Leu Gly Leu Pro Phe Tyr Lys Phe His Pro Gly Gln Pro Ala
260     265     270
Ser Ser Val Cys Ile Asp Val Cys Asn Thr Tyr Thr Asn Val Ser Asp
275     280     285
Leu Thr Ser Arg Leu Leu Ser Leu Val Thr Val Pro Gly Glu Val Asn
290     295     300
Pro Phe Val Gln Tyr Ala Lys Ala Leu Val Ser Asn Val Ile Ser Gly
305     310     315     320
Leu Ser Tyr Ile Glu Lys Lys Pro Ser Ile Tyr Leu Ile His Lys Asn
325     330     335
Met Lys Ser His Met Ser Ile Val Asn Leu Thr Val Lys Val Met Glu
340     345     350
Ser Cys Tyr Ala Arg Tyr Tyr Gly Tyr Asp Val Trp Thr Glu Lys Val
355     360     365
Lys Tyr Val Ala Asn Asp Thr Leu Pro Val Arg Phe Lys Arg Leu Ala
370     375     380
Glu Trp Phe Thr Ala His Phe Met Asn Tyr Glu Gly Ser Glu Gln Ile
385     390     395     400
Asp Trp Leu Asp Thr Val Ser Gln Leu Ile Asp Tyr Ser Met Ser Asp
405     410     415

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Pro Glu His Met Ala Lys Met Thr Ala Gly Ile Met Pro Val Phe Asp
 420 425 430
 Met Leu Ile Glu Lys Pro Leu Asn Glu Leu Leu Ser Pro Asn Pro Asn
 435 440 445
 Ser Val Ser Ser Arg Glu Ile Val Thr Ser Glu Gly Met Phe Ser Thr
 450 455 460
 Gly Gly Val Leu Tyr Ile Ser Leu Asp Gly Leu Ser Asn Pro Asp Thr
 465 470 475 480
 Ala Ala Ala Ile Ser Gln Leu Ile Met Ser Asp Leu Thr Ser Cys Ala
 485 490 495
 Gly Ser Arg Tyr Asn Ala Gln Asp Gly Asp Met Ser Ala Asn Ser Arg
 500 505 510
 Ile Ser Ile Phe Val Asp Glu Ala His Ser Ala Ile Asn Asn Pro Met
 515 520 525
 Ile Asn Leu Leu Ala Gln Gly Arg Ala Ala Lys Ile Ala Leu Phe Ile
 530 535 540
 Cys Thr Gln Thr Ile Ser Asp Phe Ile Ala Ala Ser Val Glu Thr
 545 550 555 560
 Ala Asn Arg Ile Thr Gly Leu Cys Asn Asn Tyr Ile Ser Leu Arg Val
 565 570 575
 Asn Asp Thr Pro Thr Gln Thr Leu Val Val Glu Asn Phe Gly Lys Ser
 580 585 590
 Ala Ile Ser Thr Asn Met Val Thr Tyr Thr Thr Gly Ser Glu Thr Ser
 595 600 605
 Leu Pro His Asn Asn Phe Ser Gly Ser Ile Ser Glu Arg Lys Gln Thr
 610 615 620
 Thr Leu Glu Glu Ser Ile Pro Lys Asp Leu Leu Gly Gln Val Pro Met
 625 630 635 640
 Phe His Ile Val Ala Arg Leu Gln Asp Gly Arg Lys Val Val Gly Gln
 645 650 655
 Ile Pro Ile Ala Val Ala Glu Lys Gln Met Lys Pro Asn Thr Thr Leu
 660 665 670
 Ser Glu Met Leu Phe Lys Lys Ala Gly Lys Val Thr Leu Arg Gln Asn
 675 680 685
 Leu Asp Ile Lys Asn Leu Asn Lys Phe Leu Arg Lys Leu His
 690 695 700

<210> 6147

<211> 871

<212> PRT

<213> Enterobacter cloacae

<400> 6147

Arg Pro Ser Thr Ser Arg Leu Pro Ala Ser Gly Leu Ser Ser Val Leu
 1 5 10 15
 Ser Pro Lys Ser His Leu Lys Arg Leu Phe Ile Gln His Gly Phe Gly
 20 25 30
 Lys Gln Leu Leu Glu Ser Gly Val Leu Phe Leu Lys Arg Leu Gln Ala
 35 40 45
 Leu Asn Phe Arg His Leu His Thr Ala Ile Leu Leu Thr Pro Asp Val
 50 55 60
 Lys Arg Gly Ile Gly Asn Gly Met Leu Ala Ala Glu Phe Thr Gly Gly
 65 70 75 80
 Tyr Pro Ser Phe Gly Phe Ala Glu Asn Thr Asp Asp Leu Phe Val Gly
 85 90 95
 Lys Thr Leu Leu His Gly Asp Val Leu Met Trp Leu Met Lys Thr Leu
 100 105 110
 Leu Thr Ser Gly Cys Thr Asn Gln Arg Gly Ala Gly Gln Arg Asp Pro
 115 120 125
 Ile Met Gly Leu Arg Ser Asn Asp Ala Ala Ala Arg Ala Ile Ser Thr
 130 135 140

ile Lys His Asn Phe Thr Ser Ile Asn Ile Asn Asn Tyr Asn Ala Lys
 145 150 155 160
 Pro Met His Ile Ile Ile Val Asn Gly Glu Val Tyr Leu Asn Glu Asn
 165 170 175
 Ala Phe Leu Asp Phe Val Leu Asn Asp Phe Glu Leu His Lys Tyr Asn
 180 185 190
 Phe Pro Gln Gly Glu Ala Gly Lys Thr Val Leu Val Glu Ser Leu Val
 195 200 205
 Gln Arg Gly Tyr Val Glu Pro Tyr Asp Asp Glu Arg Val Val His Tyr
 210 215 220
 Phe Ile Pro Gly Ile Tyr Ser Glu Asn Glu Ile Ser Asn Ile Phe Arg
 225 230 235 240
 Asn Gly Ile Gly Lys Leu Glu Phe Tyr Asn Leu Leu Lys Leu Arg Trp
 245 250 255
 Ile Gly Leu Ile Phe Asp Ser Tyr Lys Ile Pro Asp Ser Val Pro Gly
 260 265 270
 Leu Phe Ser Val Asn Ala Asn Lys Asp Phe Ile Tyr Ile Asp Glu Gln
 275 280 285
 Lys Thr Val Thr Glu Tyr Arg Arg Pro Val Pro Gly Arg Asp Val Ile
 290 295 300
 Thr Lys Ile Thr Asp Thr Val Glu Thr Ala Val Leu Lys Val Asn Asp
 305 310 315 320
 Leu Gly Arg Ser Ser Ala Ser Ile Asp Val Asp Ile His Ser Lys Lys
 325 330 335
 Asn Glu Gly Ser Ser Asp Asp Phe Glu Lys Lys Ala Glu Ser Asp Asn
 340 345 350
 Glu Ile Asp Asn Asp Thr Gln Ile Val Lys Ser Glu Gly Glu Glu Ala
 355 360 365
 Ala Asp Pro Val Ile Pro Asp Ile Glu Glu Ser Glu Asp Glu Ser Ala
 370 375 380
 Lys Asp Thr Glu Ser His Val Leu Val Asn Gln Leu His Glu Leu Leu
 385 390 395 400
 Leu Ser Ala Pro Leu Ser Asn Asp Tyr Ile Val Cys Val Asp Ala Val
 405 410 415
 Pro Tyr Leu Asn Ile Asp Thr Thr Met Ala Leu Leu Pro Gly Leu Asp
 420 425 430
 Glu Lys Ala Phe Ser Glu Glu Pro Tyr Phe Gln Leu Thr Phe Arg Glu
 435 440 445
 Gly Ser Leu Asp Gly Met Trp Ile Val Arg Asp Ile Asp Asp Leu Arg
 450 455 460
 Leu Val Gln Leu Gly Asp Asn Cys Ala Gly Phe Gln Leu Thr Tyr His
 465 470 475 480
 Glu Pro Arg Arg Pro Thr Thr Leu Lys Ser Leu Phe Asn Thr Ser Met
 485 490 495
 Tyr Gln Ala Leu Val Ile Asn Asp Glu Ser Ser Val Glu Asn Ser Ala
 500 505 510
 Pro Arg Pro Lys Gln Thr Leu Glu Leu Pro Pro Pro Arg Val Asn Ala
 515 520 525
 Val Glu Glu His Ser Gly Asp Val Glu Tyr His Gly Thr Asp Ser Ala
 530 535 540
 Ser Ala Thr Gly Pro Leu Lys Thr Glu Ala Val Glu Tyr Glu His Tyr
 545 550 555 560
 Gln His Leu Phe Glu Lys Glu Asp Glu Glu His Glu Ile Ile Asp Tyr
 565 570 575
 Thr Asp Phe Ser Gln Leu Ser Val Ser Arg Pro Glu Val Gly Ser Cys
 580 585 590
 Ala Thr Ser Ser Ser Val His Asn Glu Lys Leu Leu Ser Glu Pro Ser
 595 600 605
 Glu Leu Pro Glu Leu Asn Arg Glu Gln Asn Ala Asp Pro Gln Gly Thr
 610 615 620
 Asn Glu Arg Ser Met Asp Val Ser Val Gly Gln Glu Asn Ser Glu Pro

625 630 635 640
 Asp Thr Glu Gly Asn Cys Pro Pro Pro Ala Glu Val Val Tyr Ser Gln
 645 650 655
 Thr Glu Ala Ala Ala Thr Ser Val Met Ala Ser Glu Glu Pro Ala Leu
 660 665 670
 Pro Pro Val Leu Glu Glu Ser Asn Gly Glu His Ala Pro Thr Asp Ala
 675 680 685
 Lys Gly His His Leu Ser Pro Ala Leu Ala Arg Leu Phe Ala Pro Thr
 690 695 700
 Ala Pro Val Glu Lys Gln Asn Pro Lys Arg Asn Arg Asn Lys Ser Ser
 705 710 715 720
 Asp Lys Ala Glu Val Gln Lys Pro Ala Ser Pro Val Ser Gly His Asn
 725 730 735
 Leu Asn Ser Lys Val Phe Ala Ser Thr Glu Ser Asp Gln Asn Gly Glu
 740 745 750
 Phe Ser Leu Ile Ser Glu Gly Asp Val Thr Glu Leu Glu Phe Val Glu
 755 760 765
 Ile Ala Leu Val Leu His Gln Ile Leu Ser Lys Met Glu Val Ala Phe
 770 775 780
 Lys Arg Lys Arg Lys Asn Arg Phe Met Val Ser Thr Pro Asn Thr Leu
 785 790 795 800
 Tyr Leu Thr Gln Ser Cys Val Glu Lys Phe Gly Ser Gln Leu Glu Ala
 805 810 815
 Gln Asp Leu Phe Asn Lys Leu Pro Gln Tyr Leu Val Asn Ser Gly Ala
 820 825 830
 Val Ile Asn Thr Lys Cys His Ala Phe Asn Met Pro Thr Leu Leu Ala
 835 840 845
 Ala Ser Asp Arg Ala Lys Val Asp Ile Glu Arg Ile Ile Asn Asn Leu
 850 855 860
 Lys Glu Ala Gly Asn Leu
 865 870

<210> 6148

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6148

Ser Ser Ser Gln His Tyr Glu Ser Phe Ile Ser Thr Gly Ser Thr Met
 1 5 10 15
 Ile Glu Ile Glu Thr Arg Gln Leu Ser Glu His Glu Ile Ile His Ala
 20 25 30
 Phe Pro Ala Gly Lys Gly Glu Gln Pro Leu Pro Thr Val Val Phe Tyr
 35 40 45
 His Gly Phe Leu Ser Ser Lys Leu Val Tyr Ser Tyr Phe Ala Val Ala
 50 55 60
 Leu Ala Gln Ala Gly Phe Arg Val Val Met Pro Asp Ala Pro Asn His
 65 70 75 80
 Gly Ala Arg Phe Thr Gly Asp Glu Gln Ala Arg Leu Gly Leu Phe Trp
 85 90 95
 Gln Thr Leu His Gly Asn Leu Thr Glu Phe Ala Gly Leu Arg Asp Ala
 100 105 110
 Leu Leu Gln Ala Gly Leu Val Glu Gly Lys Arg Leu Ala Val Ala Gly
 115 120 125
 Ala Ser Met Gly Gly Met Thr Ala Leu Gly Ile Met Ala Arg His Pro
 130 135 140
 Glu Val Thr Ser Val Ala Cys Leu Met Gly Ser Gly Tyr Phe Thr Ser
 145 150 155 160
 Leu Ala Lys Thr Leu Phe Pro Pro Gln Ala Pro Gln Glu Ile Glu Thr
 165 170 175
 Leu Leu Ser Glu Trp Asp Val Ser His Ala Leu Ser Gln Leu Ala Asp

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<210> 6149
<211> 253
<212> PRT
<213> Enterobacter cloacae
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<210> 6150
<211> 77
<212> PRT
<213> Enterobacter cloacae
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<400> 6150
Pro Asp Pro Ile Arg Gln Ala Thr Asp Val Thr Ser Gly Cys Leu Ala
1 5 10 15
Met Ile Pro Ser Ala Val Ile Pro Pro Ile Asp Ala Pro Ala Thr Ala
20 25 30
Ser Arg Phe Pro Ser Thr Ser Pro Ala Cys Lys Ser Ala Ser Arg Ser
35 40 45

Pro Ala Asn Ser Val Arg Leu Pro Cys Ser Val Cys Gln Asn Ser Pro
 50 55 60
 Ser Arg Ala Cys Ser Ser Pro Val Lys Arg Ala Pro
 65 70 75

<210> 6151

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 6151

Met Ile His Asn Val Glu Ser Trp Ile Thr Val Ser Arg Tyr Phe His
 1 5 10 15
 Ser Lys Ser Thr Ser Gln Ile Thr Leu Arg Glu His Ser Pro Lys Thr
 20 25 30
 Lys Phe Ala Asp Asn Tyr Thr Met Thr Ile Arg Lys Arg Asp Arg Phe
 35 40 45
 Met Arg Arg Leu Thr Ala Leu Leu Leu Val Ser Leu Leu Ser Gly Cys
 50 55 60
 Ser Val Leu Gln Gly Thr Pro Glu Pro Ala Pro Pro Val Thr Asp His
 65 70 75 80
 Pro Gln Glu Ile Arg Arg Asn Gln Thr Glu Gly Leu Gln Arg Leu Gly
 85 90 95
 Thr Val Ser Ala Met Val Arg Gly Ser Pro Asp Asp Ala Glu Asp Ala
 100 105 110
 Ile Glu Ala Gln Ala Val Ala Ala Lys Ala Asp Tyr Tyr Val Ile Thr
 115 120 125
 Met Ile Asp Glu Thr Ile Ile Thr Gly Gln Trp Tyr Ala Gln Gly Ile
 130 135 140
 Leu Tyr Arg Lys
 145

<210> 6152

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 6152

Val Tyr Ser Arg Arg Ile Ala Arg Arg Ile Pro Glu Thr Arg Glu Lys
 1 5 10 15
 Glu Leu Thr Met Lys Arg Thr Leu Ala Leu Thr Thr Leu Leu Ser
 20 25 30
 Ala Gly Leu Leu Ser Thr Thr Ala Gln Ser Ala Glu Phe Ala Ser Ala
 35 40 45
 Asp Cys Val Thr Gly Leu Asn Glu Ile Gly Gln Ile Ser Val Asn Asn
 50 55 60
 Ile Thr Gly Ser Pro Gln Asp Val Glu Arg Val Val Ala Leu Lys Ala
 65 70 75 80
 Asp Glu Gln Gly Ala Ser Trp Tyr Arg Ile Val Gln Met Gln Glu Asp
 85 90 95
 His His Val Asn His Trp Arg Val Gln Ala Ile Leu Tyr Ala
 100 105 110

<210> 6153

<211> 394

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (366)

<220>

<221>UNSURE

<222>(392)

<400> 6153

Glu Gly Gly Ala Met Glu Gln Thr Trp Arg Trp Tyr Gly Pro Asn Asp
 1 5 10 15
 Pro Val Ser Leu Asp Asp Val Arg Gln Ala Gly Ala Thr Gly Val Val
 20 25 30
 Thr Ala Leu His His Ile Pro Asn Gly Gln Val Trp Pro Val Glu Glu
 35 40 45
 Ile Gln Lys Arg Gln Ala Gln Leu Ala Glu Lys Gly Leu Thr Trp Ser
 50 55 60
 Val Val Glu Ser Ile Pro Val His Glu Asp Ile Lys Thr His Ser Gly
 65 70 75 80
 Glu Cys Asp Thr Trp Ile Ala Asn Tyr Gln Gln Ser Ile Arg Asn Leu
 85 90 95
 Ala Ala Cys Gly Ile Asp Thr Val Cys Tyr Asn Phe Met Pro Ile Leu
 100 105 110
 Asp Trp Thr Arg Thr Asp Leu Glu Tyr Val Met Ala Asp Gly Ser Lys
 115 120 125
 Ala Leu Arg Phe Asp Gln Ile Ala Phe Ala Ala Phe Glu Leu His Ile
 130 135 140
 Leu Lys Arg Pro Gly Ala Glu Ala Asp Tyr Thr Ala Glu Glu Gln Gln
 145 150 155 160
 Gln Ala Leu Ala Trp Phe Asn Ala Ala Ser Glu Ala Asp Ile Glu Lys
 165 170 175
 Leu Val Arg Asn Ile Ile Ala Gly Leu Pro Gly Ala Glu Glu Gly Tyr
 180 185 190
 Thr Leu Asp Gln Phe Arg Ala Arg Leu Ala Glu Tyr Gly Asp Ile Asp
 195 200 205
 Lys Asn Gln Leu Arg Glu Asn Met Ala His Phe Leu Arg Ala Ile Val
 210 215 220
 Pro Val Ala Glu Glu Val Gly Val Arg Leu Ala Val His Pro Asp Asp
 225 230 235 240
 Pro Pro Arg Pro Ile Leu Gly Leu Pro Arg Ile Val Ser Thr Ile Glu
 245 250 255
 Asp Met Gln Trp Leu Lys Glu Thr Val Asp Ser Ile Tyr Asn Gly Phe
 260 265 270
 Thr Met Cys Thr Gly Ser Tyr Gly Val Arg Ala Asp Asn Asp Leu Val
 275 280 285
 Arg Met Ile Glu Thr Phe Gly Asp Arg Ile His Phe Thr His Leu Arg
 290 295 300
 Ala Thr Cys Arg Glu Glu Asn Pro Lys Thr Phe His Glu Ala Ala His
 305 310 315 320
 Leu Gly Gly Asp Val Asn Met Val Ala Val Val Asp Ala Ile Leu Ser
 325 330 335
 Glu Lys Val Arg Arg Lys Gln Ala Gly Asp Val Arg Pro Ile Pro Phe
 340 345 350
 Arg Pro Asp His Gly His Gln Met Leu Asp Asp Leu Arg Xaa Lys Thr
 355 360 365
 Asn Pro Gly Tyr Ser Ala Ile Gly Arg Leu Lys Arg Met Ala Glu Leu
 370 375 380
 Pro Gly Ile Gln Leu Ala Leu Xaa Met Thr
 385 390

<210> 6154

<211> 494

<212> PRT

<213> Enterobacter cloacae

<400> 6154

Ser Gly Val Tyr Tyr Met Lys Thr Ile Ala Ser Thr Ala Leu Pro Ala
 1 5 10 15
 His Val Gln Gln Pro Arg Tyr Asp Arg Glu Gln Leu Arg Ser Arg Ile
 20 25 30
 Val His Phe Gly Phe Gly Ala Phe His Arg Ala His Gln Ala Leu Leu
 35 40 45
 Thr Asn Arg Val Leu Asn Ala Arg Gly Gly Asp Trp Gly Ile Cys Glu
 50 55 60
 Ile Ser Leu Phe Ser Gly Asp Val Leu Met Arg Gln Leu Arg Ala Gln
 65 70 75 80
 Asp His Leu Phe Thr Val Leu Glu Lys Gly Ala Glu Gly Asn Gln Pro
 85 90 95
 Ile Ile Ile Gly Ala Val Lys Glu Cys Leu Asn Ala Lys Leu Asp Ser
 100 105 110
 Leu Ala Ala Ile Ile Glu Lys Phe Cys Glu Pro Gln Val Ala Ile Val
 115 120 125
 Ser Leu Thr Ile Thr Glu Lys Gly Tyr Cys Ile Asp Pro Ala Thr Gly
 130 135 140
 Lys Leu Asp Met Gln Asn Ser Arg Ile Leu His Asp Leu Glu His Pro
 145 150 155 160
 Ser Glu Pro His Ser Ala Pro Gly Ile Leu Val Glu Ala Leu His Arg
 165 170 175
 Arg Arg Glu Arg Gly Leu Pro Ala Phe Thr Val Leu Ser Cys Asp Asn
 180 185 190
 Ile Pro Asp Asn Gly His Val Val Lys Asn Ala Val Leu Gly Met Ala
 195 200 205
 Gly Lys Arg Ser Ala Glu Leu Ala Ala Trp Ile Glu Ala His Val Ser
 210 215 220
 Phe Pro Gly Thr Met Val Asp Arg Ile Val Pro Ala Ala Thr Asp Ala
 225 230 235 240
 Ser Leu Ala Glu Ile Thr Gln Glu Leu Gly Val Glu Asp Pro Cys Ala
 245 250 255
 Ile Ser Cys Glu Pro Phe Ile Gln Trp Val Val Glu Asp Asn Phe Val
 260 265 270
 Ala Gly Arg Pro Glu Trp Glu Val Ala Gly Val Gln Met Val Glu Asp
 275 280 285
 Val Leu Pro Trp Glu Gln Met Lys Leu Arg Met Leu Asn Gly Ser His
 290 295 300
 Ser Phe Leu Ala Tyr Leu Gly Tyr Leu Ala Gly Tyr Ala His Ile Asn
 305 310 315 320
 Glu Cys Met Gln Asp Asp Ser Phe Arg Glu Ala Ala Arg Arg Leu Met
 325 330 335
 Leu Asn Glu Gln Ala Pro Thr Leu Arg Ile Thr Asn Val Asp Leu Thr
 340 345 350
 Ala Tyr Ala Asp Ser Leu Leu Asn Arg Phe Ala Asn Pro Ala Leu Gln
 355 360 365
 His Arg Thr Trp Gln Ile Ala Met Asp Gly Ser Gln Lys Leu Pro Gln
 370 375 380
 Arg Met Leu Asp Gly Ile Arg Val His Leu Glu Leu Asn Thr Ala Trp
 385 390 395 400
 Pro Leu Leu Ala Leu Gly Val Ala Gly Trp Met Arg Tyr Val Ser Gly
 405 410 415
 Thr Asp Glu Gln Gly Asn Ala Ile Asp Val Arg Asp Pro Leu Ser Asp
 420 425 430
 Lys Phe Gln Ala Ile Val Ala Thr Ser Ser Asp Ala Glu Arg Val Ser
 435 440 445
 Ala Leu Leu Thr Leu Asn Glu Ile Phe Gly Asp Asp Leu Pro Gln Asn
 450 455 460
 Pro Val Phe Val Glu Ala Ile Thr Gly Ala Tyr Gln Arg Leu Val Arg

465 470 475 480
Leu Gly Ala His Gln Ala Val Ile Glu Thr Leu Lys Ile
 485 490

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<210> 6155
<211> 342
<212> PRT
<213> Enterobacter cloacae
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Val	Val	Val	Thr	Thr	Ser	Gln	Leu	Phe	Ile	Gly	Ala	His	Val	Thr	Lys
1			5	10					10				15		
Thr	Asn	Leu	Ile	Thr	Gly	Phe	Leu	Gly	Ser	Gly	Lys	Thr	Thr	Ser	Ile
			20					25					30		
Leu	His	Leu	Leu	Ala	Asn	Lys	Asp	Pro	Ala	Glu	Lys	Trp	Ala	Val	Leu
		35					40					45			
Val	Asn	Glu	Phe	Gly	Glu	Val	Gly	Ile	Asp	Gly	Ala	Leu	Leu	Ala	Asp
	50					55					60				
Ser	Gly	Ala	Met	Val	Lys	Glu	Ile	Pro	Gly	Gly	Cys	Met	Cys	Cys	Val
65				70						75					80
Asn	Gly	Leu	Pro	Met	Gln	Val	Gly	Leu	Asn	Thr	Leu	Leu	Arg	Gln	Gly
				85					90					95	
Lys	Pro	Asp	Arg	Leu	Pro	Ile	Glu	Pro	Thr	Gly	Met	Gly	His	Pro	Lys
		100						105					110		
Gln	Ile	Leu	Asp	Leu	Leu	Thr	Ala	Pro	Val	Tyr	Glu	Pro	Trp	Leu	Glu
		115				120						125			
Leu	Arg	Ala	Thr	Leu	Cys	Leu	Leu	Asp	Pro	Arg	Gln	Leu	Leu	Asp	Glu
	130					135					140				
Lys	Thr	Ile	Asn	Asn	Asp	Asn	Phe	Arg	Asp	Gln	Leu	Ala	Ser	Ala	Asp
145					150					155				160	
Ile	Ile	Val	Ala	Asn	Lys	Ser	Asp	Arg	Ala	Thr	Ala	Glu	Ser	Gln	Ala
				165					170					175	
Ala	Phe	Glu	Ser	Trp	Trp	Gln	Gln	Ala	Gly	Gly	Gly	Arg	Gln	Tyr	Val
			180					185					190		
Gln	Thr	Thr	Gln	Gln	Asn	Ile	Asp	Gly	Ala	Leu	Leu	Asp	Leu	Pro	Arg
		195					200					205			
Leu	Asn	Gln	Thr	Gln	Leu	Pro	Ala	Ser	Ala	Glu	His	Ser	His	Ser	His
	210					215					220				
Gly	Thr	Lys	Gln	Gly	Leu	Ala	Ala	Leu	Ser	Leu	Pro	Glu	His	Gln	Arg
225					230					235					240
Trp	Arg	Arg	Asn	Leu	Asn	Ser	Gly	Gln	Gly	His	Gln	Ala	Cys	Gly	Trp
			245						250					255	
Ile	Phe	Asp	Ala	Asp	Thr	Val	Phe	Thr	Ile	Gly	Ile	Leu	Glu	Thr	Trp
		260					265								
Ala	Arg	Leu	Ala	Pro	Val	Glu	Arg	Val	Lys	Gly	Ile	Met	Arg	Thr	Pro
	275						280					285			
Asp	Gly	Leu	Val	Arg	Ile	Asn	Arg	Gln	Gly	Glu	Asp	Phe	Phe	Ile	Glu
	290					295				300					
Thr	Gln	Asn	Val	Ala	Pro	Pro	Asp	Ser	Arg	Ile	Glu	Leu	Ile	Ser	Ala
305					310					315				320	
Val	Asn	Thr	Asp	Trp	Asn	Ala	Leu	Gln	Ser	Ser	Leu	Leu	Lys	Leu	Arg
				325					330					335	
Leu	Ser	Leu	Gly												

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<210> 6156
<211> 245
<212> PRT
<213> Enterobacter cloacae
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<400> 6156

Phe His Thr Leu Leu Lys Thr Met Thr Thr Arg Leu Pro Ala Ile Leu
 1 5 10 15
 Leu Leu Asn Ala Ala Gly Leu Ala Leu Phe Phe Ser Trp Tyr Ile Pro
 20 25 30
 Ala Asp His Gly Phe Trp Phe Pro Leu Asp Ser Gly Leu Phe His Phe
 35 40 45
 Phe Asn Gln Ala Leu Ala Lys Ser Glu Ala Phe Leu Trp Leu Val Ala
 50 55 60
 Ile Thr Asn Asn Arg Ala Phe Asp Gly Cys Ser Leu Ala Met Gly
 65 70 75 80
 Cys Leu Met Leu Ser Phe Trp Leu Lys Glu Asp Lys Thr Gly Arg Arg
 85 90 95
 Arg Ile Leu Ile Ile Gly Leu Val Met Leu Leu Thr Ala Val Ile Ile
 100 105 110
 Asn Gln Leu Ala Gln His Leu Met Pro Val Lys Arg Ala Ser Pro Ser
 115 120 125
 Leu Phe Phe Pro Asn Ile Asn Arg Val Ser Glu Leu Leu His Ile Pro
 130 135 140
 Thr Lys Asp Ala Ser Lys Asp Ser Phe Pro Gly Asp His Gly Met Met
 145 150 155 160
 Leu Leu Ile Phe Ala Gly Phe Met Leu Arg Tyr Phe Gly Lys Lys Ala
 165 170 175
 Phe Ala Ile Ala Leu Val Ile Val Val Val Phe Ala Phe Pro Arg Val
 180 185 190
 Met Ile Gly Ala His Trp Leu Thr Asp Ile Ala Val Gly Ser Leu Thr
 195 200 205
 Ala Val Leu Ile Gly Leu Pro Trp Val Leu Met Thr Pro Leu Ser Asp
 210 215 220
 Arg Val Ile Gly Ile Phe Asp Arg Tyr Leu Pro Gly Lys Phe Lys Gln
 225 230 235 240
 Val Arg Asn Lys
 245

<210> 6157

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 6157

Glu Tyr Ala Arg Asp Gly Gln Ile Val Leu Asn Ile Ala Pro Arg Ala
 1 5 10 15
 Val Gly Asn Leu Glu Leu Ala Asn Asp Glu Val Arg Phe Asn Ala Arg
 20 25 30
 Phe Gly Gly Val Pro Arg Gln Val Ser Val Pro Leu Ala Ala Val Leu
 35 40 45
 Ala Ile Tyr Ala Arg Glu Asn Gly Ala Gly Thr Met Phe Glu Pro Glu
 50 55 60
 Ala Ala Tyr Asp Glu Glu Val Ala Ser Leu Asn Asp Glu Glu Gly Gly
 65 70 75 80
 Val Gly Thr Glu Ser Glu Thr Val Met Ser Val Ile Asp Gly Asp Lys
 85 90 95
 Pro Asp Arg Glu Asp Asp Asn Asp Pro Asp Asp Asp Pro Pro Pro Arg
 100 105 110
 Gly Gly Arg Pro Ala Leu Arg Val Val Lys
 115 120

<210> 6158

<211> 812

<212> PRT

<213> Enterobacter cloacae

<400> 6158

Ile	Thr	Leu	Asn	Arg	Asp	Met	Thr	Val	Cys	Lys	Lys	Ser	Arg	Leu	Ala
1			5						10					15	
Leu	Cys	Val	Arg	Ala	Ile	Leu	Cys	Gly	Thr	Leu	Pro	Leu	Val	Val	Leu
		20						25					30		
Ala	Ser	Pro	Ser	Leu	Tyr	Ala	Arg	Glu	Val	Thr	Phe	Asp	Thr	Gly	Ile
	35						40					45			
Ile	Gln	Ser	Arg	Gly	Leu	Ser	Pro	Asp	Leu	Asn	His	Tyr	Phe	Ala	Gln
	50					55					60				
Ala	Pro	Arg	Phe	Leu	Pro	Gly	Thr	His	Ser	Val	Gln	Val	Lys	Val	Asn
65				70						75					80
Gly	Lys	Asp	Arg	Gly	Thr	Ala	Ala	Ala	Arg	Phe	Asn	Glu	Asp	Gly	Glu
		85							90					95	
Leu	Cys	Ile	Asp	Lys	Asp	Phe	Leu	Asp	Phe	Ala	Gly	Ile	Met	Pro	Val
		100						105					110		
Pro	Leu	Lys	Ala	Gly	Glu	Ala	Cys	His	Asp	Ile	Arg	Ser	Asp	Tyr	Ala
	115						120					125			
Gln	Ala	Val	Val	Asn	Ala	Leu	Pro	Asn	Gln	Asp	Ala	Val	Glu	Leu	Tyr
	130					135					140				
Leu	Pro	Gln	Glu	Ala	Ile	Asn	Ser	Leu	Thr	Ser	Asn	Ile	Lys	His	Phe
145					150					155					160
Gln	Gln	Gly	Gly	Thr	Ala	Gly	Leu	Leu	Asn	Tyr	Ser	Leu	Phe	Ser	Thr
		165						170					175		
Arg	Asn	Glu	Tyr	Gly	Asp	Ser	Asp	Asn	Ser	Arg	Tyr	Ser	Gln	Ala	Ser
		180					185						190		
Leu	Glu	Ala	Gly	Phe	Asn	Thr	Met	Asp	Trp	Ser	Val	Arg	Ser	Arg	Tyr
	195						200					205			
Ile	Leu	Thr	Asp	Asp	Asp	Gly	Asp	Lys	Asn	Ala	Glu	Ser	Ile	Tyr	Thr
	210					215					220				
Tyr	Ala	Glu	His	Val	Phe	Val	Pro	Gln	Arg	Leu	Thr	Met	Gln	Val	Gly
225					230					235					240
Glu	Ile	Asn	Ala	Met	Ser	Gly	Val	Leu	Ser	Gly	Val	Pro	Ile	Thr	Gly
		245						250					255		
Val	Gln	Leu	Met	Pro	Thr	Asn	Gly	Leu	Glu	Arg	Asp	Gly	Thr	Gly	Val
		260					265						270		
Ser	Val	Ser	Gly	Ile	Ala	Arg	Ser	Ser	Gln	Ala	Arg	Val	Glu	Val	Arg
	275					280					285				
Gln	Ser	Gly	Arg	Leu	Val	Tyr	Ser	Thr	Leu	Val	Pro	Ala	Gly	Pro	Phe
	290					295					300				
Thr	Leu	Asp	Asp	Val	Pro	Val	Val	Arg	Asn	Asn	Val	Asp	Leu	Asp	Val
305					310					315					320
Thr	Val	Val	Glu	Ser	Asp	Gly	Ser	Ser	Ser	His	Phe	Ile	Val	Pro	Ala
		325						330					335		
Ser	Ala	Val	Arg	Thr	Arg	Lys	Leu	Gly	Arg	Pro	Gln	Gly	Leu	Thr	Met
		340						345					350		
Ser	Val	Gly	Gln	Val	Arg	Ser	Ile	Asp	Ser	Asp	Tyr	Ser	Asp	Pro	Leu
	355						360					365			
Val	Ala	Asn	Val	Ser	Asp	Gly	Trp	Arg	Ile	Thr	Pro	Trp	Met	Asn	Val
	370					375					380				
Leu	Ala	Ser	Gly	Ala	Val	Ala	Glu	Lys	Tyr	Gln	Ala	Ala	Gly	Gly	Ser
385					390					395					400
Ala	Glu	Phe	Met	Leu	Ser	Asp	Ile	Trp	Gly	Ile	Thr	Thr	Thr	Ala	Ala
		405						410					415		
Ala	Ser	Lys	Glu	Gln	Phe	Gly	Asp	Ser	Asn	Ser	Gly	Leu	Lys	Thr	Glu
		420						425					430		
Leu	Gln	Ser	Asp	Leu	Thr	Leu	Gly	Glu	His	Val	Ser	Leu	Ser	Ala	Ser
	435						440					445			
Ala	Thr	His	Phe	Ser	Ser	Gly	Tyr	Arg	Glu	Leu	Ala	Asp	Ala	Leu	Asp
	450					455					460				
Asp	Glu	Phe	Gln	Pro	Asn	Asp	Asn	Thr	Tyr	Ser	Gly	Asn	Val	Ser	Phe
465					470					475					480

Ala Thr Gly Ile Ala Gly Thr Phe Ser Ala Gly Phe Asn Tyr Asn Gln
 485 490 495
 Ser Ala Asn Tyr Glu Asp Ser Arg Tyr Leu Leu Leu Ser Trp Gly Lys
 500 505 510
 Thr Phe Lys Tyr Ala Ser Ile Thr Val Asn Trp Gln Ser Ala Val Gly
 515 520 525
 Asn Thr Asp Asp Glu Gln Asp Asp Met Leu Tyr Val Asn Leu Ser
 530 535 540
 Ile Pro Leu Gly Gly Ser Gln Ser Leu Ser Ser Tyr Met Arg Lys Gln
 545 550 555 560
 Gly Asp Arg Thr Thr Tyr Gly Val Ala Asn Ser Gly Ala Ile Gly Asp
 565 570 575
 Asn Thr Asn Tyr Tyr Ile Ser Ala Asp Arg Asp Asn Asp Asn Glu
 580 585 590
 Asn Ser Phe Asn Gly Asn Ile Asn Thr Asn Leu His Tyr Thr Gln Leu
 595 600 605
 Ser Val Gly Gly Gly Ser Ser Gly Ser Asn Gln Arg Asn Tyr Ser Ala
 610 615 620
 Thr Leu Thr Gly Gly Ile Ala Met His Lys Asp Gly Val Thr Phe Ser
 625 630 635 640
 Pro Tyr Ala Ile Lys Asp Thr Phe Ala Ile Ala Lys Leu Asn Glu Pro
 645 650 655
 Lys Ser Gly Val Glu Ile Ser Thr Pro Gln Gly Thr Ile Trp Thr Asp
 660 665 670
 His Trp Gly Gln Ala Val Val Pro Gly Leu Asn Glu Trp Arg Asn Ser
 675 680 685
 Arg Ile Glu Ile Asp Ala Asn Lys Leu Pro Pro Ser Met Thr Leu Ala
 690 695 700
 Asn Gly Ile Lys Tyr Val Ala Ala Gly His Ala Ser Val Ser Glu Val
 705 710 715 720
 Ser Phe Lys Ile Leu Asn Ser Arg Arg Val Met Leu Arg Val Lys Arg
 725 730 735
 Ala Asp Gly Thr Pro Leu Ala Lys Gly Leu Ser Ile Val Asp Glu Lys
 740 745 750
 Gly Asn Tyr Ile Val Thr Ser Val Asp Asp Gly His Val Phe Ile Asn
 755 760 765
 Asp Ala Asp Gln Leu Lys Gly Leu Tyr Ala Met Asp Asp Asn Asn Asn
 770 775 780
 Arg Leu Cys Gln Ile His Tyr Thr Leu Ser Asp Lys Lys Asp Asp Glu
 785 790 795 800
 Ala Phe Tyr Glu Glu Val Asn Gly Val Cys Gln
 805 810

<210> 6159

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6159

Tyr Phe Lys Ile Gly Ile Leu Ile Lys Asn Gly Ile Asn Ile Ser Cys
 1 5 10 15
 Leu Phe Leu Ser Asn Tyr Thr Trp Thr Trp Asn Val Val Leu Trp Ile
 20 25 30
 Lys Gly Val Ile Ile Met Ser Cys Leu Lys Lys Thr Leu Leu Lys Ser
 35 40 45
 Val Ile Ala Ala Ala Leu Phe Ser Ala Gln Phe Ser Thr Tyr Ala Ala
 50 55 60
 Gly Met Val Pro Glu Thr Ser Leu Leu Val Ile Asp Glu Ala Thr His
 65 70 75 80
 Ser Gly Thr Ile Asn Val Lys Asn Thr Asp Ser Phe Pro Ala Leu Leu
 85 90 95

Tyr Thr Asn Val Leu Asp Leu Pro Asp Asp Gln Gly Leu Lys Leu Ile
 100 105 110
 Ser Thr Gln Pro Val Val Arg Leu Glu Pro Gly Gln Thr Gln Gln Leu
 115 120 125
 Arg Phe Ile Leu Gln Asn Lys Glu Pro Leu Glu Ala Glu His Tyr Lys
 130 135 140
 Arg Val Thr Phe Glu Gly Ile Pro Pro Lys Ser Asp Asn Lys Asn Ile
 145 150 155 160
 Lys Ile Gly Phe Asn Leu Arg Gln Asp Leu Pro Val Leu Ile Arg Pro
 165 170 175
 Ala Lys Leu Ala Val Val Thr Asp Ala Trp Lys Tyr Leu Glu Trp Asn
 180 185 190
 Ala Thr Gly Thr Thr Leu Thr Val Lys Asn Pro Ser Lys Tyr Val Val
 195 200 205
 Arg Leu Ala Gln Asn Val Met Thr Gln Pro Ser Gly Thr Ala Gly Thr
 210 215 220
 Leu Pro Lys Thr Tyr Ile Leu Pro Gly Gln Ser Met Thr Ala Thr Leu
 225 230 235 240
 Lys Lys Thr Val Ser Gly Asp Asn Lys Val Lys Phe Phe Pro Ala Ser
 245 250 255
 Arg Tyr Gly Val Glu Val Pro Ser Phe Val Ser Glu Leu Asn Lys
 260 265 270

<210> 6160

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 6160

Arg Met Lys Lys Val Leu Ile Ala Thr Ala Leu Ser Leu Cys Val Ala
 1 5 10 15
 Ser Ala Phe Ala Ala Asp Thr Ala Val Leu Gln Val Lys Gly Lys Leu
 20 25 30
 Thr Asn Ala Ala Cys Thr Pro Glu Leu Ser Lys Gly Gly Val Val Asp
 35 40 45
 Tyr Gly Thr Ile His Pro Gly Ser Leu Ser Ala Ser Ala Val Asn Gln
 50 55 60
 Leu Gly Gln Asn Asn Ile Asp Leu Thr Ile Thr Cys Ser Ala Ala Thr
 65 70 75 80
 Lys Val Ser Trp Thr Met Val Asp Asp Arg Ala Glu Thr Asn Ala Gly
 85 90 95
 Leu Thr Val Asn Asn Ala Met Phe Thr Gly Ala Ser Leu Ser Asn Ser
 100 105 110
 Ser Gln Thr Tyr Gly Val Gly Lys Thr Thr Gly Gly Val Asn Ile Gly
 115 120 125
 Ser Tyr Ala Met Phe Val Lys Val Asp Ser Val Thr Ala Asp Gly Ala
 130 135 140
 Thr Val Asp Pro Ile Tyr Thr Gln Asn Gly Asp Thr Ser Lys Trp Thr
 145 150 155 160
 Thr Ser Thr Asn Gly Ser Ser Gln Ala Gln Asn Ile Arg Glu Thr Thr
 165 170 175
 Val Ala Lys Ser Gly Glu Lys Val Pro Leu Ala Phe Leu Ser Ala Thr
 180 185 190
 Phe Pro Leu Val Thr Ser Leu Ala Ile Gln Asp Thr Thr Thr Leu Ala
 195 200 205
 Ile Thr Asp Asp Thr Thr Leu Asp Gly Gln Leu Thr Ile Ser Leu Lys
 210 215 220
 Tyr Leu
 225

<210> 6161

<211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 6161
 Gln Met Lys Lys Val Leu Leu Ala Thr Ala Leu Ser Leu Cys Val Ala
 1 5 10 15
 Ser Ala Phe Ala Ala Asp Thr Ala Val Leu Gln Val Lys Gly Lys Leu
 20 25 30
 Thr Asn Ala Ala Cys Thr Pro Gln Leu Ser Asn Gly Gly Val Val Asp
 35 40 45
 Tyr Gly Thr Ile His Leu Gly Glu Leu Ser Ala Thr Ala Val Asn Gln
 50 55 60
 Leu Gly Asp Lys Asp Ile Asn Leu Thr Ile Thr Cys Gly Ala Pro Thr
 65 70 75 80
 Gln Val Gly Trp Val Val Asp Asp Asn Arg Glu Phe Lys
 85 90

<210> 6162
 <211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 6162
 Phe Phe Leu Thr Gln Ile Asp Thr Val Leu Val Leu Phe Arg Leu Pro
 1 5 10 15
 Ala Trp Trp Asn Asp Phe Ile Ala Gly Leu Val Leu Leu Gly Val Leu
 20 25 30
 Val Leu Asp Gly Arg Leu Arg Gln Ala Leu Ala Arg His Gln Arg Ala
 35 40 45
 Leu Lys Tyr Ser Arg Phe Gln Pro Gly Asn Lys Gly Gly Lys His Val
 50 55 60
 Thr Pro Phe Pro Lys Arg Lys Lys Glu Val Ala
 65 70 75

<210> 6163
 <211> 326
 <212> PRT
 <213> Enterobacter cloacae

<400> 6163
 Met Arg Leu Asn Trp Glu Ser Ala Leu Leu Ile Leu Leu Val Leu Glu
 1 5 10 15
 Ile Leu Leu Phe Gly Ala Ile Asn Pro Arg Met Leu Asp Ile Asn Met
 20 25 30
 Leu Leu Phe Ser Thr Ser Asp Phe Ile Cys Ile Gly Ile Val Ala Leu
 35 40 45
 Pro Leu Thr Leu Val Ile Ile Ser Gly Gly Ile Asp Ile Ser Leu Gly
 50 55 60
 Ser Thr Ile Gly Leu Cys Ala Ile Ala Leu Gly Val Met Met Gln Ala
 65 70 75 80
 Gly Trp Pro Met Ala Val Ala Ile Pro Leu Thr Leu Leu Leu Gly Leu
 85 90 95
 Leu Cys Gly Leu Val Asn Ala Ala Leu Ile His Tyr Thr Gly Ile Ser
 100 105 110
 Pro Leu Val Ile Thr Leu Gly Thr Leu Tyr Leu Tyr Gly Gly Gly Ala
 115 120 125
 Leu Leu Leu Ser Gly Met Ala Gly Ala Thr Gly Tyr Glu Gly Ile Gly
 130 135 140
 Gly Phe Pro Asp Ser Phe Thr Ala Phe Ala Asn Leu Thr Val Leu Gly
 145 150 155 160

Leu Pro Ile Pro Leu Val Leu Phe Ala Val Ile Thr Ala Phe Phe Trp
 165 170 175
 Leu Ile Thr His Arg Gly Arg Phe Gly Arg His Leu Phe Leu Ile Gly
 180 185 190
 Gln Asn Pro Arg Ala Ala Arg Tyr Ala Ala Leu Pro Val Asn Gly Met
 195 200 205
 Pro Tyr Ala Leu Tyr Gly Leu Val Gly Val Ala Ser Ala Ile Ala Ala
 210 215 220
 Leu Val Met Val Ser Tyr Phe Gly Ser Ala Arg Ser Asp Leu Gly Arg
 225 230 235 240
 Asp Leu Leu Met Pro Ala Leu Thr Ala Val Leu Gly Gly Ala Asn
 245 250 255
 Ile Tyr Gly Gly Ser Gly Ser Val Val Gly Thr Ala Leu Ala Ala Leu
 260 265 270
 Leu Val Gly Tyr Leu Gln Gln Gly Leu Gln Met Val Gly Ile Pro Asn
 275 280 285
 Gln Val Ser Ser Ala Leu Ser Gly Ala Leu Leu Val Val Val Met
 290 295 300
 Gly Arg Ser Leu Ser Leu His Arg Glu Trp Val Arg Ser Leu Phe Arg
 305 310 315 320
 Lys Leu Ser Gly Ala
 325

<210> 6164

<211> 326

<212> PRT

<213> *Enterobacter cloacae*

<400> 6164

Gly Glu Gly Gln Arg His Arg Ala Ala Ala Gly Ala Arg Gly Val His
 1 5 10 15
 Gln Arg Glu His Gln Gln Ile Arg Phe Leu Thr Gly Glu Gln Met Ala
 20 25 30
 Asp Leu Asp Asp Ile Lys Asp Gly Lys Asp Phe Gly Ile Gly Thr Pro
 35 40 45
 Gln Gln Asn Val Pro Tyr Thr Leu Lys Gly Cys Gly Ser Leu Asp Trp
 50 55 60
 Gly Met Gln Ser Arg Leu Ser Arg Ile Phe Asn Pro Gln Ser Asn Arg
 65 70 75 80
 Thr Val Met Leu Ala Phe Asp His Gly Tyr Phe Gln Gly Pro Thr Thr
 85 90 95
 Gly Leu Glu Arg Ile Asp Leu Ser Ile Ala Pro Leu Phe Gly Glu Thr
 100 105 110
 Asp Val Leu Met Cys Thr Arg Gly Ile Leu Arg Ser Gln Val Pro Ala
 115 120 125
 Ala Thr Asn Lys Pro Val Val Leu Arg Ala Ser Gly Gly Asn Ser Ile
 130 135 140
 Leu Gly Glu Leu Ser Asn Glu Cys Val Ala Val Ala Met Glu Asp Ala
 145 150 155 160
 Leu Arg Leu Asn Val Cys Ala Val Ala Ala Gln Val Tyr Ile Gly Ser
 165 170 175
 Glu Phe Glu His Gln Ser Ile Asn Asn Val Ile Lys Leu Val Asp Ala
 180 185 190
 Gly Ala Arg Tyr Gly Met Pro Thr Leu Ala Val Thr Gly Val Gly Lys
 195 200 205
 Glu Met Ala Arg Asp Ala Arg Tyr Phe Ser Leu Ala Ser Arg Ile Ala
 210 215 220
 Ala Glu Met Gly Ala Gln Phe Val Lys Thr Tyr Val Asp Glu Gly
 225 230 235 240
 Phe Glu Lys Val Thr Ala Ser Cys Pro Val Pro Ile Val Ile Ala Gly
 245 250 255

Gly Lys Lys Leu Pro Glu His Glu Ala Leu Glu Met Cys Trp Arg Ala
 260 265 270
 Ile Asp Gln Gly Ala Ser Gly Val Asp Met Gly Arg Asn Ile Phe Gln
 275 280 285
 Ser Ser Ala Pro Leu Ala Met Leu Lys Ala Val Lys Lys Val Val His
 290 295 300
 Glu Asn Met Ser Ala Arg Glu Ala Phe Gln Phe Trp Gln Glu Glu Lys
 305 310 315 320
 Gln Gly Glu Ala Lys
 325

<210> 6165

<211> 352

<212> PRT

<213> Enterobacter cloacae

<400> 6165

Val Cys Thr Ala Asn Gly Cys Asp Leu Ser Ser Glu Asn Tyr Pro Glu
 1 5 10 15
 Arg Lys Met Lys Thr Lys Leu Leu Val Leu Ala Met Ala Leu Ser Phe
 20 25 30
 Ala Ser Ala Gln Ala Ala Asp Arg Ile Ala Phe Ile Pro Lys Leu Val
 35 40 45
 Gly Val Gly Phe Phe Thr Ser Gly Gly Asn Gly Ala Lys Glu Ala Gly
 50 55 60
 Lys Val Leu Gly Val Asp Val Thr Tyr Asp Gly Pro Thr Glu Pro Ser
 65 70 75 80
 Val Ser Gly Gln Val Gln Leu Ile Asn Asn Phe Val Asn Gln Gly Tyr
 85 90 95
 Asn Ala Ile Ile Val Ser Ala Val Ser Pro Asp Gly Leu Cys Pro Ala
 100 105 110
 Leu Lys Arg Ala Met Gln Arg Gly Val Lys Val Leu Thr Trp Asp Ser
 115 120 125
 Asp Thr Lys Pro Glu Cys Arg Ser Ile Tyr Ile Asn Gln Gly Thr Pro
 130 135 140
 Glu Gln Leu Gly Gly Leu Leu Val Glu Met Ala Gly Lys Gln Val Thr
 145 150 155 160
 Lys Pro Asn Ala Lys Val Ala Phe Phe Tyr Ser Ser Pro Thr Val Thr
 165 170 175
 Asp Gln Asn Gln Trp Val Lys Glu Ala Lys Ala Lys Ile Glu Lys Asp
 180 185 190
 His Pro Gln Trp Gln Val Val Thr Thr Gln Phe Gly Tyr Asn Asp Ala
 195 200 205
 Thr Lys Ser Leu Gln Thr Ala Glu Gly Ile Leu Lys Ala Tyr Ser Asp
 210 215 220
 Leu Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Ala
 225 230 235 240
 Gln Ala Ala Glu Asn Leu Lys Arg Glu Gly Val Ala Ile Val Gly Phe
 245 250 255
 Ser Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys
 260 265 270
 Ala Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ala Val Asn
 275 280 285
 Val Ala Asp Arg Leu Leu Lys Lys Gly Asp Leu Asn Val Gly Asp Ser
 290 295 300
 Val Asp Val Lys Asn Ile Gly Thr Leu Lys Val Glu Pro Asn Ser Val
 305 310 315 320
 Gln Gly Tyr Gln Tyr Glu Ala Lys Gly Asn Gly Ile Val Leu Leu Pro
 325 330 335
 Glu Arg Val Val Phe Thr Lys Glu Asn Ile Ser Lys Tyr Asp Phe
 340 345 350

<210> 6166
 <211> 181
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6166
 Lys Ser Asp Arg Gln Leu Pro Gly Ala Asp Arg Tyr Arg Gly Gly Gln
 1 5 10 15
 Lys Ala Ala Gly Ala Arg Gly Ala Gly Asp Val Leu Ala Arg Asp Arg
 20 25 30
 Pro Gly Arg Val Arg Arg Gly His Gly Ala Gln His Leu Pro Val Gln
 35 40 45
 Arg Ala Ala Arg His Ala Glu Gly Gly Glu Glu Ser Gly Ser Arg Glu
 50 55 60
 His Glu Arg Pro Gly Gly Val Pro Val Leu Ala Gly Arg Glu Thr Gly
 65 70 75 80
 Arg Ser Lys Met Asn Val Thr Leu Val Glu Ile Asn Ile Lys Pro Glu
 85 90 95
 Arg Val Asp Glu Phe Leu Glu Val Phe Arg Ala Asn His Glu Gly Ala
 100 105 110
 Ile Lys Glu Pro Gly Asn Leu Arg Phe Asp Val Leu Gln Asp Pro Arg
 115 120 125
 Val Lys Thr Arg Phe Phe Ile Tyr Glu Ala Tyr Lys Asp Glu Lys Ala
 130 135 140
 Val Leu Ala His Lys Gln Thr Pro His Tyr Leu Ala Cys Val Asp Lys
 145 150 155 160
 Leu Glu Glu Leu Met Ser Glu Pro Arg Lys Lys Arg Ser Phe Val Gly
 165 170 175
 Leu Leu Pro Glu
 180

<210> 6167
 <211> 446
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6167
 Ile Leu Pro Asn Glu Arg Asn Gly Leu Leu Tyr Thr Pro Gly Ser Ile
 1 5 10 15
 His Trp Arg His Asp Ile Met Ala Asn Thr Ile Thr Ala Asp Asp Ile
 20 25 30
 Arg Glu His Phe Ser Gln Ala Met Ser Ala Met Tyr Gln Gln Glu Val
 35 40 45
 Pro Gln Tyr Gly Thr Leu Leu Glu Leu Val Ala Asp Val Asn Leu Ala
 50 55 60
 Val Leu Glu Asn Asn Pro Leu Leu His Glu Gln Leu Ala Asn Ala Asp
 65 70 75 80
 Glu Leu Ala Arg Leu Asn Val Glu Arg His Gly Ala Ile Arg Val Gly
 85 90 95
 Thr Ala Gln Glu Leu Ser Thr Leu Arg Arg Ile Phe Ala Ile Met Gly
 100 105 110
 Met Tyr Pro Val Ser Tyr Tyr Asp Leu Ser Gln Ala Gly Val Pro Val
 115 120 125
 His Ser Thr Ala Phe Arg Pro Thr Asp Asp Ala Ala Leu Cys Arg Asn
 130 135 140
 Pro Phe Arg Ile Phe Thr Ser Leu Leu Arg Leu Glu Leu Ile Glu Asn
 145 150 155 160
 Val Ala Leu Arg Glu Arg Ala Ala Glu Ile Leu Ser Arg Arg Asn Ile
 165 170 175
 Phe Thr Pro Arg Cys Leu Glu Leu Ile Asp Leu His Asp Ala Gln Gly

180 185 190
 His Phe Thr Glu Ala Gln Ala Arg Glu Phe Val Gln Glu Ala Leu Glu
 195 200 205
 Thr Phe Arg Trp His Arg His Ala Thr Val Asp Gln Glu Thr Tyr Leu
 210 215 220
 Ala Leu Ser Asn Glu His Arg Leu Ile Ala Asp Val Val Cys Phe Pro
 225 230 235 240
 Gly Cys His Ile Asn His Leu Thr Pro Arg Thr Leu Asp Ile Asp Arg
 245 250 255
 Val Gln Glu Leu Met Pro Lys Tyr Gly Ile Glu Pro Lys Ile Leu Ile
 260 265 270
 Glu Gly Pro Pro Arg Arg Glu Val Pro Ile Leu Leu Arg Gln Thr Ser
 275 280 285
 Phe Lys Ala Leu Glu Glu Pro Val Leu Phe Ala Gly Glu His Lys Gly
 290 295 300
 Thr His Thr Ala Arg Phe Gly Glu Ile Glu Gln Arg Gly Val Ala Leu
 305 310 315 320
 Thr Pro Lys Gly Arg Glu Leu Tyr Asp Ser Leu Asn Gln Ala Gly
 325 330 335
 Thr Gly Lys Asp Asn Leu Thr His Gln Leu His Leu Arg Glu Ile Phe
 340 345 350
 Ser Ala Phe Pro Asp Ser Glu Met Phe Leu Arg Arg Gln Gly Leu Ala
 355 360 365
 Tyr Phe Arg Tyr Arg Leu Thr Pro Thr Gly Glu Ala His Arg His Ala
 370 375 380
 Phe Arg Pro Gly Val Asp Pro Gln Pro Leu Ile Glu Arg Gly Trp Val
 385 390 395 400
 Val Ala Gln Pro Ile Thr Tyr Glu Asp Phe Leu Pro Val Ser Ala Ala
 405 410 415
 Gly Ile Phe Gln Ser Asn Leu Gly Tyr Glu Thr Gln Ala Arg Ile His
 420 425 430
 Gly Asn Ala Ser Arg Asn Ala Phe Gln Ala Ala Pro Leu Pro
 435 440 445

<210> 6168

<211> 320

<212> PRT

<213> Enterobacter cloacae

<400> 6168

Leu Val Thr Arg Val Ala Leu Phe Leu Thr Ser Pro Met Glu Lys Asn
 1 5 10 15
 Gly Leu Phe Ser Gln Arg Ile Arg Leu Arg His Leu His Thr Phe Val
 20 25 30
 Ala Val Ala Gln Gln Gly Thr Leu Gly Arg Ala Ala Glu Thr Leu Asn
 35 40 45
 Leu Ser Gln Pro Ala Leu Ser Lys Thr Leu Asn Glu Leu Glu Gln Leu
 50 55 60
 Thr Gly Thr Arg Leu Phe Asp Arg Gly Arg Leu Gly Ala Gln Leu Thr
 65 70 75 80
 Leu Val Gly Glu Gln Phe Leu Thr His Ala Val Lys Val Leu Asp Ala
 85 90 95
 Leu Asn Thr Ala Gly Gln Ala Leu Asn Arg Lys Glu Glu Pro Ala Ser
 100 105 110
 Asp Ile Val Arg Val Gly Ala Leu Pro Thr Ala Ala Leu Gly Ile Leu
 115 120 125
 Pro Ala Ala Ile Gly Gln Phe His Arg Gln Gln Lys His Ala Thr Leu
 130 135 140
 Gln Val Ala Thr Met Asn Asn Thr Met Leu Leu Ala Gly Leu Lys Ser
 145 150 155 160
 Gly Glu Leu Asp Leu Gly Ile Gly Arg Met Ser Asp Pro Glu Leu Met

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                165                170                175
Ser Gly Leu Asn Tyr Glu Leu Leu Phe Leu Glu Ser Leu Lys Leu Val
                180                185                190
Val Arg Pro Asn His Pro Leu Leu Gln Asp Thr Val Thr Leu Ser Arg
                195                200                205
Val Met Glu Trp Pro Val Val Ser Pro Lys Gly Thr Val Pro Arg
                210                215                220
Gln Asn Ala Glu Ala Leu Leu Gln Met Gln Gly Cys Thr Leu Pro Ser
                225                230                235
Gly Cys Ile Glu Thr Leu Ser Ala Ser Leu Ser Arg Gln Leu Thr Val
                245                250                255
Asp Tyr Asp Tyr Val Trp Phe Val Pro Ser Gly Ala Val Lys Asp Asp
                260                265                270
Leu Arg Arg Gly Val Leu Thr Ala Leu Pro Val Thr Ser Pro Gly Ala
                275                280                285
Gly Glu Pro Ile Gly Ile Leu Thr Arg Val Asp Ala Pro Leu Ser Glu
                290                295                300
Gly Ala Gln Thr Leu Leu Ser Ala Ile Arg Lys Ser Met Pro Leu
305                310                315                320

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<210> 6169

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 6169

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Ala Asn Gln Val Val Met Lys Lys Met Leu Arg Phe Val Leu Leu Leu
1                5                10                15
Ile Val Ala Leu Gly Ile Ala Gly Gly Val Trp Lys Val Arg
                20                25                30
Gln Leu Ala Glu Ser Gln Ile Leu Ile Lys Asp Glu Thr Ile Phe Thr
                35                40                45
Leu Lys Ala Gly Thr Gly Arg Gln Ala Leu Gly Gln Gln Leu Tyr Asp
                50                55                60
Asp Lys Ile Ile Asn Arg Pro Arg Val Phe Gln Trp Leu Leu Arg Ile
65                70                75                80
Glu Pro Asp Leu Ser His Phe Lys Ala Gly Thr Tyr Arg Phe Thr Pro
                85                90                95
Gly Met Thr Val Arg Glu Met Leu Gln Leu Leu Glu Ser Gly Lys Glu
                100                105                110
Ala Gln Phe Pro Leu Arg Phe Val Glu Gly Met Arg Leu Ser Asp Tyr
                115                120                125
Leu Arg Gln Leu Arg Asp Ala Pro Tyr Ile Lys His Thr Leu Lys Asp
                130                135                140
Asp Arg Tyr Gln Thr Val Ala Asp Ala Leu Lys Phe Glu His Pro Glu
145                150                155                160
Trp Val Glu Gly Trp Phe Trp Pro Asp Thr Trp Met Tyr Thr Ala Gly
                165                170                175
Thr Thr Asp Val Ala Ile Leu Lys Arg Ala His Asn Lys Met Val Ala
                180                185                190
Ala Val Asp Ala Ala Trp Lys Gly Arg Ala Glu Gly Leu Pro Tyr Lys
                195                200                205
Asp Gln Asn Gln Phe Met Thr Met Ala Ser Ile Ile Glu Lys Glu Thr
                210                215                220
Ala Val Ala Ala Glu Arg Asp Gln Val Ala Ser Val Phe Ile Asn Arg
225                230                235                240
Leu Arg Ile Gly Met Arg Leu Gln Thr Asp Pro Thr Val Ile Tyr Gly
                245                250                255
Met Gly Glu Asn Tyr Asn Gly Arg Ile Ser Arg Lys Asp Leu Glu Thr
                260                265                270
Pro Thr Ala Tyr Asn Thr Tyr Val Ile Ser Gly Leu Pro Pro Gly Pro

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275 280 285
 Ile Ala Thr Pro Ser Glu Ala Ser Leu Lys Ala Ala His Pro Ala
 290 295 300
 Lys Thr Pro Tyr Leu Tyr Phe Val Ala Asp Gly Lys Gly Gly His Thr
 305 310 315 320
 Phe Asn Thr Asn Leu Ala Ser His Asn Arg Ser Val Gln Asp Tyr Leu
 325 330 335
 Lys Ala Leu Lys Glu Lys Asn Ala Gln
 340 345

<210> 6170

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6170

Tyr Ser Ala Asp Cys Tyr Ala Val Ala Thr Gly Ala Ala Gly Met Lys
 1 5 10 15
 Trp Tyr Pro Trp Leu Arg Pro His Phe Glu Gln Leu Ile Gly Ser Tyr
 20 25 30
 Gln Val Gly Arg Gly His His Ala Leu Leu Ile Gln Ala Leu Pro Gly
 35 40 45
 Met Gly Asp Asp Ala Leu Ile Tyr Ala Ile Thr Arg Phe Leu Met Cys
 50 55 60
 Gln Gln Pro Glu Gly His Lys Ser Cys Gly Lys Cys Arg Gly Cys Gln
 65 70 75 80
 Leu Met Gln Ala Gly Thr His Pro Asp Tyr Tyr Thr Leu Glu Pro Glu
 85 90 95
 Lys Gly Lys Asn Thr Leu Gly Ile Asp Ala Val Arg Glu Val Ser Glu
 100 105 110
 Lys Leu Tyr Glu Tyr Ala Arg Leu Gly Gly Ala Lys Val Val Trp Leu
 115 120 125
 Lys Asp Ala Ala Leu Leu Thr Glu Ala Ala Ala Asn Ala Leu Leu Lys
 130 135 140
 Thr Leu Glu Glu Pro Pro Glu Asn Thr Trp Phe Phe Leu Ser Cys Arg
 145 150 155 160
 Glu Pro Glu Arg Leu Leu Ala Thr Leu Arg Ser Arg Cys Arg Leu His
 165 170 175
 His Leu Ala Val Pro Gln Glu Ser Trp Ser Leu Ala Trp Leu Glu Arg
 180 185 190
 Glu Val Thr Val Ser Gln Asp Ala Ala Arg Ser Ala Leu Arg Leu Cys
 195 200 205
 Ser Gly Ala Pro Ala Ala Ala Leu Ala Leu Leu Gln Pro Glu Val Trp
 210 215 220
 Ser Gln Arg Glu Thr Leu Cys Arg Ala Val Glu Ser Ala Leu Glu Ser
 225 230 235 240
 Ser Pro Arg Glu Leu Asp Arg Ile Pro Ala Tyr Ala His
 245 250

<210> 6171

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6171

Val Leu Ser Phe Val Val Pro Arg Ile Ser Phe Phe Ile Pro Pro Trp
 1 5 10 15
 Arg Thr Ser Val Ser Lys Arg Arg Val Val Val Thr Gly Leu Gly Met
 20 25 30
 Leu Ser Pro Val Gly Asn Thr Val Glu Ser Thr Trp Lys Ala Leu Leu
 35 40 45

Ala Gly Gln Ser Gly Ile Ser Leu Ile Asp His Phe Asp Thr Ser Ala
 50 55 60
 Tyr Ala Thr Lys Phe Ala Gly Leu Val Lys Asp Phe Asn Cys Glu Glu
 65 70 75 80
 Ile Ile Ser Arg Lys Glu Gln Arg Lys Met Asp Ala Phe Ile Gln Tyr
 85 90 95
 Gly Ile Val Ala Gly Val Gln Ala Met Gln Asp Ser Gly Leu Glu Ile
 100 105 110
 Thr Glu Glu Asn Ala Thr Arg Ile Gly Ala Ala Ile Gly Ser Gly Ile
 115 120 125
 Gly Gly Leu Gly Leu Ile Glu Glu Asn His Thr Ser Leu Met Asn Gly
 130 135 140
 Gly Pro Arg Lys Ile Ser Pro Phe Phe Val Pro Ser Thr Ile Val Asn
 145 150 155 160
 Met Val Ala Gly His Leu Thr Ile Met Phe Gly Leu Arg Gly Pro Ser
 165 170 175
 Ile Ser Ile Ala Thr Ala Cys Thr Ser Gly Val His Asn Ile Gly Gln
 180 185 190
 Ala Ala Arg Ile Ile Ala Tyr Gly Asp Ala Asp Ala Met Val Ala Gly
 195 200 205
 Gly Ala Glu Lys Ala Ser Thr Pro Leu Gly Val Gly Gly Phe Gly Ala
 210 215 220
 Ala Arg Ala Leu Ser Thr Arg Asn Asp Asn Pro Gln Ala Ala Ser Arg
 225 230 235 240
 Pro Trp Asp Lys Asp Arg Asp Gly Phe Val Leu Gly Asp Gly Ala Gly
 245 250 255
 Met Ile Val Leu Glu Glu Tyr Glu His Ala Lys Lys Arg Gly Ala Lys
 260 265 270
 Ile Tyr Ala Glu Val Val Gly Phe Gly Met Ser Ser Asp Ala Tyr His
 275 280 285
 Met Thr Ser Pro Pro Glu Asn Gly Ala Gly Ala Leu Ala Met Glu
 290 295 300
 Asn Ala Ile Arg Asp Ala Gly Ile Thr Pro Ala Gln Ile Gly Tyr Val
 305 310 315 320
 Asn Ala His Gly Thr Ser Thr Pro Ala Gly Asp Lys Ala Glu Ala Gln
 325 330 335
 Ala Val Lys Ser Ile Phe Gly Glu Ser Ala Ser Arg Val Leu Val Ser
 340 345 350
 Ser Thr Lys Ser Met Thr Gly His Leu Leu Gly Ala Ala Gly Ala Val
 355 360 365
 Lys Ser Ile Tyr Ser Ile Leu Ala Leu Arg Asp Gln Ala Val Pro Pro
 370 375 380
 Thr Ile Asn Leu Asp Asn Pro Asp Glu Gly Cys Asp Leu Asp Phe Val
 385 390 395 400
 Pro His Glu Ala Arg Gln Val Ser Gly Met Glu Tyr Thr Leu Cys Asn
 405 410 415
 Ser Phe Gly Phe Gly Gly Thr Asn Gly Ser Leu Ile Phe Lys Lys Val
 420 425 430

<210> 6172

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6172

Gly Ala Thr Met Phe Leu Ile Asn Gly Leu Glu Gln Asp Thr Leu Pro
 1 5 10 15
 Ala Ser Asp Arg Ala Thr Gln Phe Gly Asp Gly Cys Phe Thr Thr Ala
 20 25 30

Arg Ile Leu Asp Gly Asp Val Cys Leu Leu Gly Ala His Ile Leu Arg
 35 40 45
 Leu Gln Lys Ala Cys Glu Thr Leu Leu Ile Pro Phe Ser Gln Trp Asp
 50 55 60
 Ile Leu Glu Ser Glu Met Arg Arg Leu Ala Ser Glu Lys Ala Ser Gly
 65 70 75 80
 Val Leu Lys Val Ile Ile Ser Arg Gly Ser Gly Gly Arg Gly Tyr Ser
 85 90 95
 Gly Ser Ala Cys Leu His Pro Thr Arg Ile Leu Ser Val Ser Asp Tyr
 100 105 110
 Pro Ser His Tyr Ala His Trp Arg Glu Glu Val Ala Leu Ala Leu
 115 120 125
 Ser Pro Val Arg Leu Gly Arg Asn Pro Met Leu Ala Gly Ile Lys His
 130 135 140
 Leu Asn Arg Leu Glu Gln Val Leu Ile Arg Thr His Leu Glu Gln Thr
 145 150 155 160
 Glu Ala Gly Glu Ala Leu Val Leu Asp Ser Glu Gly Tyr Ile Thr Glu
 165 170 175
 Cys Cys Ala Ala Asn Leu Leu Trp Arg Lys Gly Ser Glu Val Phe Thr
 180 185 190
 Pro Ser Leu Glu Gln Ala Gly Val Asn Gly Ile Met Arg Gln Phe Cys
 195 200 205
 Met His Leu Leu Ala Arg Ala Gly Phe Arg Val Val Glu Val Asn Ala
 210 215 220
 Lys Glu Glu Ala Leu Leu Ala Ala Asp Glu Val Val Ile Cys Asn Ala
 225 230 235 240
 Leu Met Pro Val Val Pro Val Arg Ala Tyr Gly Arg Lys Cys Trp Ser
 245 250 255
 Ser Arg Glu Leu Phe Gln Phe Leu Ala Pro Leu Cys Glu Gln Thr Arg
 260 265 270

<210> 6173

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 6173

Arg His Leu Arg Lys Lys Met Arg Ser Lys Tyr Ile Val Ile Glu Gly
 1 5 10 15
 Leu Glu Gly Ala Gly Lys Thr Thr Ala Arg Asn Val Val Val Asp Thr
 20 25 30
 Leu Thr Ser Leu Gly Val Ala Asp Met Val Phe Thr Arg Glu Pro Gly
 35 40 45
 Gly Thr Gln Leu Ala Glu Lys Leu Arg Ser Leu Val Leu Asp Ile Lys
 50 55 60
 Ser Val Gly Asp Glu Val Ile Thr Asp Lys Ala Glu Val Leu Met Phe
 65 70 75 80
 Tyr Ala Ala Arg Val Gln Leu Val Glu Thr Val Ile Lys Pro Ala Leu
 85 90 95
 Ala Glu Gly Lys Trp Val Ile Gly Asp Arg His Asp Leu Ser Thr Gln
 100 105 110
 Ala Tyr Gln Gly Gly Arg Gly Ile Asp Gln Thr Met Leu Ala Thr
 115 120 125
 Leu Arg Asn Ala Val Leu Gly Asp Phe Arg Pro Asp Leu Thr Leu Tyr
 130 135 140
 Leu Asp Val Thr Pro Glu Val Gly Leu Lys Arg Ala Arg Ala Arg Gly
 145 150 155 160
 Glu Leu Asp Arg Ile Glu Gln Glu Ser Phe Asp Phe Phe Asn Arg Thr
 165 170 175

Arg Ala Arg Tyr Leu Glu Leu Ala Gly Gln Asp Lys Thr Ile Arg Thr
 180 185 190
 Ile Asp Ala Thr Gln Ser Leu Glu Asp Val Thr Arg Asp Ile Gln Gln
 195 200 205
 Thr Val Thr Gln Trp Leu Gln Glu Gln Ala
 210 215 220

<210> 6174

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 6174

Leu Val Glu Tyr Met Thr Ile Lys Val Gly Ile Asn Gly Phe Gly Arg
 1 5 10 15
 Ile Gly Arg Ile Val Phe Arg Ala Ala Gln Lys Arg Ser Asp Ile Glu
 20 25 30
 Ile Val Gly Ile Asn Asp Leu Leu Asp Ala Glu Tyr Met Ala Tyr Met
 35 40 45
 Leu Lys Tyr Asp Ser Thr His Gly Arg Phe Asp Gly Thr Val Glu Val
 50 55 60
 Lys Asp Gly His Leu Val Val Asn Gly Lys Thr Ile Arg Val Thr Ala
 65 70 75 80
 Glu Lys Asp Pro Ala Asn Leu Lys Trp Asn Glu Ile Gly Val Asp Val
 85 90 95
 Val Ala Glu Ala Thr Gly Ile Phe Leu Thr Asp Glu Thr Ala Arg Lys
 100 105 110
 His Ile Thr Ala Gly Ala Lys Lys Val Val Leu Thr Gly Pro Ser Lys
 115 120 125
 Asp Asn Thr Pro Met Phe Val Arg Gly Ala Asn Phe Glu Thr Tyr Ala
 130 135 140
 Gly Gln Asp Ile Val Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala
 145 150 155 160
 Pro Leu Ala Lys Val Ile Asn Asp Asn Phe Gly Ile Ile Glu Gly Leu
 165 170 175
 Met Thr Thr Val His Ala Thr Thr Ala Thr Gln Lys Thr Val Asp Gly
 180 185 190
 Pro Ser His Lys Asp Trp Arg Gly Gly Arg Gly Ala Ala His Asn Ile
 195 200 205
 Ile Pro Ser Ser Thr Gly Ala Ala Lys Ala Val Gly Lys Val Leu Pro
 210 215 220
 Glu Leu Asn Gly Lys Leu Thr Gly Met Ala Phe Arg Val Pro Thr Pro
 225 230 235 240
 Asn Val Ser Val Val Asp Leu Thr Val Arg Leu Glu Lys Ala Ala Ser
 245 250 255
 Tyr Glu Glu Ile Lys Lys Ala Ile Lys Ala Ala Ser Glu Gly Pro Met
 260 265 270
 Lys Gly Val Leu Gly Tyr Thr Glu His Asp Val Val Ser Thr Asp Phe
 275 280 285
 Asn Gly Glu Val Cys Thr Ser Val Phe Asp Ala Lys Ala Gly Ile Ala
 290 295 300
 Leu Asn Asp Asn Phe Val Lys Leu Val Ser Trp Tyr Asp Asn Glu Thr
 305 310 315 320
 Gly Tyr Ser Asn Lys Val Leu Asp Leu Ile Ala His Ile Ser Lys
 325 330 335

<210> 6175

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 6175

Thr Glu Asp Cys Leu Met Ile Asn Lys Ile Phe Ala Leu Pro Val Val
 1 5 10 15
 Glu Gln Leu Thr Pro Val Leu Ser Arg Gln Ile Asp Gly Ala Asp
 20 25 30
 Ile Ile Val Val Asp His Pro Arg Val Lys Ala Ser Val Ala Leu Asn
 35 40 45
 Gly Ala His Leu Leu Ser Trp Lys Pro Glu Gly Glu Glu Gly Leu
 50 55 60
 Trp Leu Ser Glu Ala Thr Ser Phe Lys Arg Gly Ala Ala Ile Arg Gly
 65 70 75 80
 Gly Val Pro Ile Cys Trp Pro Trp Phe Gly Pro Ser Ala Gln Gln Gly
 85 90 95
 Leu Pro Ser His Gly Phe Ala Arg Asn Gln Gln Trp Thr Leu Lys Ala
 100 105 110
 His Asn Glu Asp Glu Asn Gly Ala Val Leu Thr Phe Glu Leu Gln Ala
 115 120 125
 Asn Asp Glu Thr Arg Ala Leu Trp Pro His Glu Phe Thr Leu Tyr Ala
 130 135 140
 Arg Phe Lys Leu Gly Lys Thr Cys Glu Ile Glu Leu Glu Ala His Gly
 145 150 155 160
 Glu Phe Glu Thr Thr Ser Ala Leu His Thr Tyr Phe Asn Val Gly Asp
 165 170 175
 Ile Gln Ala Val Lys Val Ser Gly Leu Gly Asp Thr Phe Ile Asp Lys
 180 185 190
 Val Asp Asn Ala Lys Glu Gly Lys Leu Asp Asp Gly Val Gln Thr Phe
 195 200 205
 Pro Asp Arg Thr Asp Arg Val Tyr Leu His Pro Glu Ala Cys Ser Val
 210 215 220
 Ile His Asp Ser Ala Leu Asn Arg Gly Ile Asp Val Val His His His
 225 230 235 240
 His Ser Asn Val Val Gly Trp Asn Pro Gly Pro Ala Leu Ser Val Ser
 245 250 255
 Met Ala Asp Ile Pro Asp Asp Gly Tyr Lys Thr Phe Val Cys Val Glu
 260 265 270
 Thr Ala Cys Val Thr Ala Pro Gln Lys Thr Ser Glu Glu Lys Pro Ser
 275 280 285
 Arg Leu Gly Gln Thr Ile Lys Ile Val Lys Arg
 290 295 300

<210> 6176

<211> 525

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (525)

<400> 6176

Lys Thr Lys Gly Arg His Ala Met Asn Ile Phe Asp His Tyr Arg Gln
 1 5 10 15
 Arg Tyr Glu Ala Ala Lys Asp Glu Glu Phe Thr Leu Gln Glu Phe Leu
 20 25 30
 Thr Ile Cys Arg Gln Asp Arg Ser Ala Tyr Ala Asn Ala Ala Glu Arg
 35 40 45
 Leu Leu Met Ala Ile Gly Glu Pro Asn Met Val Asp Thr Ala Leu Glu
 50 55 60
 Pro Arg Leu Ser Arg Leu Phe Ser Asn Arg Val Val Ala Arg Tyr Pro
 65 70 75 80
 Ala Phe Glu Glu Phe Tyr Gly Met Glu Asp Ala Ile Glu Gln Ile Val

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<210> 6177
<211> 258
<212> PRT
<213> Enterobacter cloacae
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<400> 6177

Leu Phe Asp Tyr Arg Lys Glu Trp Ile Val Thr Lys Leu Lys Leu Leu
 1 5 10 15
 Ala Leu Gly Ile Leu Ala Ala Thr Ala Ala Ser Thr Val Gln Ala Glu
 20 25 30
 Ser Gln Trp Thr Val Gly Ala Gly Ala Gly Val Ile Asn Ser Pro Tyr
 35 40 45
 Lys Gln Tyr Asp Arg Asp Val Tyr Pro Val Pro Val Thr Tyr Glu
 50 55 60
 Gly Asp Asn Phe Trp Phe Arg Gly Leu Gly Gly Tyr Tyr Leu Trp
 65 70 75 80
 Asn Asp Thr Ala Asp Lys Leu Ser Ile Met Ala Tyr Tyr Asp Pro Thr
 85 90 95
 His Phe Lys Pro Gly Asp Ser Asp Ser Asn Ala Leu Arg Gln Leu Asp
 100 105 110
 Lys Arg Arg Ser Ser Leu Met Ala Gly Leu Ser Tyr Val His Asn Thr
 115 120 125
 Glu Tyr Gly Phe Leu Arg Thr Ala Leu Ala Gly Asp Thr Leu Asp Asn
 130 135 140
 Ser Asn Gly Phe Ile Trp Asp Leu Ala Trp Leu Tyr Arg Tyr Thr Asn
 145 150 155 160
 Gly Ala Val Thr Leu Thr Pro Gly Ile Gly Val Gln Tyr Ser Ser Glu
 165 170 175
 Asn Tyr Asn Asp Tyr Tyr Tyr Gly Val Ser Lys Ala Glu Ser Arg Arg
 180 185 190
 Ser Gly Leu Asn Ser Tyr Ser Ala Asp Asp Gly Trp Asp Pro Tyr Leu
 195 200 205
 Glu Leu Thr Ala Ser Tyr Asn Phe Leu Gly Asp Trp Asn Val Tyr Gly
 210 215 220
 Thr Gly Arg Tyr Ile Arg Leu Ser Asp Glu Val Lys Asp Ser Pro Met
 225 230 235 240
 Val Asp Lys Ser Trp Ser Gly Ile Phe Ser Val Gly Val Thr Tyr Lys
 245 250 255
 Phe

<210> 6178

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 6178

Asn Val Asp Phe Leu Gln Gly Asp Phe Arg Asp Glu Leu Val Leu Lys
 1 5 10 15
 Ala Leu Leu Asp Arg Val Gly Asp Ser Lys Val Gln Val Val Met Ser
 20 25 30
 Asp Met Ala Pro Asn Met Cys Gly Asn Thr Gly Gly Gly Tyr Pro Pro
 35 40 45
 Arg His Val Ser Gly Gly Thr Ser Val Arg Asn Val Ser
 50 55 60

<210> 6179

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6179

Ser Val Cys Leu Tyr Leu Lys Pro Trp Ser Leu Leu Arg Gly Phe Ser
 1 5 10 15
 Tyr Leu Phe Asn His Ile Asn Pro Arg Asp Phe Thr Met Lys Leu Phe
 20 25 30

Ala Gln Asp Ser His Leu Asp Leu Thr His Pro His Val Met Gly Ile
 35 40 45
 Leu Asn Val Thr Pro Asp Ser Phe Ser Asp Gly Gly Thr His Asn Ser
 50 55 60
 Leu Ile Asp Ala Val Lys His Ala Asn Leu Met Ile Asn Ala Gly Ala
 65 70 75 80
 Thr Ile Ile Asp Val Gly Gly Glu Ser Thr Arg Pro Gly Ala Ala Glu
 85 90 95
 Val Ser Val Glu Glu Glu Leu Ala Arg Val Val Pro Val Val Glu Ala
 100 105 110
 Ile Ala Arg Arg Phe Glu Val Trp Ile Ser Val Asp Thr Ser Lys Pro
 115 120 125
 Glu Val Ile Arg Glu Val Ala Arg Val Gly Ala His Ile Ile Asn Asp
 130 135 140
 Ile Arg Ser Leu Thr Glu Pro Gly Ala Ile Glu Ala Ala Glu Thr
 145 150 155 160
 Gly Leu Pro Val Cys Leu Met His Met Gln Gly Gln Pro Lys Thr Met
 165 170 175
 Gln Glu Ala Pro Lys Tyr Glu Asp Val Phe Ala Asp Val Thr Arg Phe
 180 185 190
 Phe Ile Glu His Ile Glu Arg Cys Glu Arg Ala Gly Ile Ala Lys Glu
 195 200 205
 Lys Leu Leu Leu Asp Pro Gly Phe Gly Phe Gly Lys Asn Leu Ser His
 210 215 220
 Asn Tyr Ala Leu Leu Ala Arg Leu Ser Glu Phe His Gln Phe Gly Leu
 225 230 235 240
 Pro Leu Leu Val Gly Met Ser Arg Lys Ser Met Ile Gly Gln Leu Leu
 245 250 255
 Asn Val Gly Pro Ser Glu Arg Leu Ser Gly Ser Leu Ala Cys Ala Val
 260 265 270
 Ile Ala Ala Met Gln Gly Ala His Ile Ile Arg Val His Asp Val Lys
 275 280 285
 Glu Thr Val Glu Ala Met Arg Val Val Glu Ala Thr Leu Ala Ala Lys
 290 295 300
 Glu Asn Lys Arg Tyr Glu
 305 310

<210> 6180

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 6180

Val Thr Val Arg Ser Arg Leu Ser Cys Arg Ile Trp Arg Gln Ile Cys
 1 5 10 15
 Val Glu Thr Pro Ala Val Asp Ile Pro Arg Ala Met Tyr Leu Val Glu
 20 25 30
 Leu Ala Leu Glu Met Cys Arg Asp Val Leu Ala Pro Gly Gly Ser Phe
 35 40 45
 Val Val Lys Val Phe Gln Gly Glu Gly Phe Glu Glu Tyr Leu Lys Glu
 50 55 60
 Ile Arg Ser Leu Phe Ala Lys Val Lys Val Arg Lys Pro Asp Ser Ser
 65 70 75 80
 Arg Ala Arg Ser Arg Glu Val Tyr Ile Val Ala Thr Gly Arg Lys
 85 90 95

<210> 6181

<211> 653

<212> PRT

<213> Enterobacter cloacae

<400> 6181

Tyr Glu Val Asn Pro Leu Ser Asp Met Ala Lys Asn Leu Ile Leu Trp
 1 5 10 15
 Leu Val Ile Ala Val Val Leu Met Ser Val Phe Gln Ser Phe Gly Pro
 20 25 30
 Ser Glu Ser Ser Asn Gly Arg Lys Val Asp Tyr Ser Thr Phe Leu Gln Glu
 35 40 45
 Val Asn Gln Asp Gln Val Arg Glu Ala Arg Ile Asn Gly Arg Glu Ile
 50 55 60
 Asn Val Thr Lys Lys Asp Ser Asn Arg Tyr Thr Thr Tyr Ile Pro Val
 65 70 75 80
 Asn Asp Pro Lys Leu Leu Asp Asn Leu Leu Thr Lys Asn Val Lys Val
 85 90 95
 Val Gly Glu Pro Pro Glu Glu Pro Ser Leu Leu Ala Ser Ile Phe Ile
 100 105 110
 Ser Trp Phe Pro Met Leu Leu Leu Ile Gly Val Trp Ile Phe Phe Met
 115 120 125
 Arg Gln Met Gln Gly Gly Gly Lys Gly Ala Met Ser Phe Gly Lys
 130 135 140
 Ser Lys Ala Arg Met Leu Thr Glu Asp Gln Ile Lys Thr Thr Phe Ala
 145 150 155 160
 Asp Val Ala Gly Cys Asp Glu Ala Lys Glu Glu Val Gly Glu Leu Val
 165 170 175
 Glu Tyr Leu Arg Glu Pro Ser Arg Phe Gln Lys Leu Gly Gly Lys Ile
 180 185 190
 Pro Lys Gly Val Leu Met Val Gly Pro Pro Gly Thr Gly Lys Thr Leu
 195 200 205
 Leu Ala Lys Ala Ile Ala Gly Glu Ala Lys Val Pro Phe Phe Thr Ile
 210 215 220
 Ser Gly Ser Asp Phe Val Glu Met Phe Val Gly Val Gly Ala Ser Arg
 225 230 235 240
 Val Arg Asp Met Phe Glu Gln Ala Lys Lys Ala Ala Pro Cys Ile Ile
 245 250 255
 Phe Ile Asp Glu Ile Asp Ala Val Gly Arg Gln Arg Gly Ala Gly Leu
 260 265 270
 Gly Gly Gly His Asp Glu Arg Glu Gln Thr Leu Asn Gln Met Leu Val
 275 280 285
 Glu Met Asp Gly Phe Glu Gly Asn Glu Gly Ile Ile Val Ile Ala Ala
 290 295 300
 Thr Asn Arg Pro Asp Val Leu Asp Pro Ala Leu Leu Arg Pro Gly Arg
 305 310 315 320
 Phe Asp Arg Gln Val Val Val Gly Leu Pro Asp Val Arg Gly Arg Glu
 325 330 335
 Gln Ile Leu Lys Val His Met Arg Arg Val Pro Leu Ala Pro Asp Ile
 340 345 350
 Asp Ala Ala Ile Ile Ala Arg Gly Thr Pro Gly Phe Ser Gly Ala Asp
 355 360 365
 Leu Ala Asn Leu Val Asn Glu Ala Ala Leu Phe Ala Ala Arg Gly Asn
 370 375 380
 Lys Arg Val Val Ser Met Val Glu Phe Glu Lys Ala Lys Asp Lys Ile
 385 390 395 400
 Met Met Gly Ala Glu Arg Arg Ser Met Val Met Thr Glu Ala Gln Lys
 405 410 415
 Glu Ser Thr Ala Tyr His Glu Ala Gly His Ala Ile Ile Gly Arg Leu
 420 425 430
 Val Pro Glu His Asp Pro Val His Lys Val Thr Ile Ile Pro Arg Gly
 435 440 445
 Arg Ala Leu Gly Val Thr Phe Phe Leu Pro Glu Gly Asp Ala Ile Ser
 450 455 460
 Ala Ser Arg Gln Lys Leu Glu Ser Gln Ile Ser Thr Leu Tyr Gly Gly
 465 470 475 480

Arg Leu Ala Glu Glu Ile Ile Tyr Gly Ala Glu His Val Ser Thr Gly
 485 490 495
 Ala Ser Asn Asp Ile Lys Val Ala Thr Asn Leu Ala Arg Asn Met Val
 500 505 510
 Thr Gln Trp Gly Phe Ser Asp Lys Leu Gly Pro Leu Leu Tyr Ala Glu
 515 520 525
 Glu Glu Gly Glu Val Phe Leu Gly Arg Ser Val Ala Lys Ala Lys His
 530 535 540
 Met Ser Asp Glu Thr Ala Arg Ile Ile Asp Gln Glu Val Lys Ala Leu
 545 550 555 560
 Ile Glu Arg Asn Tyr Ala Arg Ala Arg Gln Ile Leu Asn Asp Asn Met
 565 570 575
 Asp Ile Leu His Ser Met Lys Asp Ala Leu Met Lys Tyr Glu Thr Ile
 580 585 590
 Asp Ala Pro Gln Ile Asp Asp Leu Met Ala Arg Arg Glu Val Arg Pro
 595 600 605
 Pro Ala Gly Trp Glu Asp Pro Gly Ala Ser Asn Asn Ser Asp Asn Asn
 610 615 620
 Gly Thr Pro Arg Ala Pro Arg Pro Val Asp Glu Pro Arg Thr Pro Asn
 625 630 635 640
 Pro Gly Asn Thr Met Ser Glu Gln Leu Gly Asp Lys
 645 650

<210> 6182

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 6182

Lys Pro Cys Val Trp Trp Lys Pro His Trp Gln Arg Arg Lys Thr Asn
 1 5 10 15
 Ala Met Ser Asn Arg Lys Tyr Phe Gly Thr Asp Gly Ile Arg Gly Arg
 20 25 30
 Val Gly Asp Ala Pro Ile Thr Pro Asp Phe Val Leu Lys Leu Gly Trp
 35 40 45
 Ala Ala Gly Lys Val Leu Ala Arg His Gly Ser Arg Lys Ile Ile Ile
 50 55 60
 Gly Lys Asp Thr Arg Ile Ser Gly Tyr Met Leu Glu Ser Ala Leu Glu
 65 70 75 80
 Ala Gly Leu Ala Ala Gly Leu Ser Ala Ser Phe Thr Gly Pro Met
 85 90 95
 Pro Thr Pro Ala Val Ala Tyr Leu Thr Arg Thr Phe Arg Ala Glu Ala
 100 105 110
 Gly Ile Val Ile Ser Ala Ser His Asn Pro Phe Tyr Asp Asn Gly Ile
 115 120 125
 Lys Phe Phe Ser Ile Asp Gly Thr Lys Leu Pro Asp Asp Val Glu Glu
 130 135 140
 Ala Ile Glu Ala Glu Met Glu Lys Glu Ile Thr Cys Val Asp Ser Ala
 145 150 155 160
 Glu Leu Gly Lys Ala Asn Arg Ile Val Asp Ala Ala Gly Arg Tyr Ile
 165 170 175
 Glu Phe Cys Lys Gly Thr Phe Pro Asn Glu Leu Ser Leu Ala His Leu
 180 185 190
 Lys Ile Val Val Asp Cys Ala Asn Gly Ala Thr Tyr His Ile Ala Pro
 195 200 205
 Asn Val Phe Arg Glu Leu Gly Ala Lys Val Ile Thr Ile Gly Cys Glu
 210 215 220
 Pro Asp Gly Leu Asn Ile Asn Glu Glu Val Gly Ala Thr Asp Val Arg
 225 230 235 240
 Ala Leu Gln Ala Arg Val Leu Ala Glu Lys Ala Asp Leu Gly Ile Ala
 245 250 255

Leu Asp Gly Asp Gly Asp Arg Val Ile Met Val Asp His Glu Gly Asn
 260 265 270
 Lys Val Asp Gly Asp Gln Ile Leu Tyr Ile Ile Ala Arg Glu Gly Leu
 275 280 285
 Arg Gln Gly Gln Leu Arg Gly Gly Ala Val Gly Thr Leu Met Ser Asn
 290 295 300
 Met Gly Leu Glu Leu Ala Leu Lys Gln Leu Gly Ile Pro Phe Val Arg
 305 310 315 320
 Ala Lys Val Gly Asp Arg Tyr Val Leu Gln Lys Leu Gln Glu Lys Gly
 325 330 335
 Trp Arg Ile Gly Ala Glu Asn Ser Gly His Val Ile Leu Leu Asp Lys
 340 345 350
 Thr Thr Thr Gly Asp Gly Ile Val Ala Ala Leu His Phe Ser Leu Gly
 355 360 365
 Val Ala Glu Pro Arg Ile Glu
 370 375

<210> 6183
 <211> 726
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (65)

<400> 6183
 His Ala Ser Thr Gly Val Glu Asn Ser Pro Thr Pro Val Pro Ile Thr
 1 5 10 15
 Tyr Pro Ala Ser Gly Arg Leu Phe Phe Val Phe His Phe Phe Glu Leu
 20 25 30
 Ser Val Asp Asn Ile Ile Val Phe Arg Val Val Arg Arg Ser Ile Ser
 35 40 45
 Ala Arg Leu Leu Leu Cys Val Leu Leu Ser Asp Phe His Gln Leu
 50 55 60
 Xaa Arg Asn Leu Cys Gln Leu His Leu Arg Phe Asp Val Arg Phe
 65 70 75 80
 Val Phe Ala Phe Gln Arg Arg Phe Gln Arg Ala Gln Cys Ser Phe Asp
 85 90 95
 Cys Ser Phe Val Phe Arg Trp Gln Phe Ile Ala Arg Phe Phe Asn Leu
 100 105 110
 Leu Thr Gly Ala Val Gln Gln Met Val Thr Leu Val Thr Gly Leu Asn
 115 120 125
 Gln Leu Phe Lys Leu Thr Val Gly Phe Arg Val Ser Phe Gly Ile Thr
 130 135 140
 Asn His Phe Phe Asp Phe Arg Phe Val Gln Ala Arg Arg Cys Leu Asp
 145 150 155 160
 Gly Asn Leu Leu Leu Phe Thr Ala Val Phe Val Phe Arg Arg His Val
 165 170 175
 Gln Asp Thr Val Ser Ile Asp Val Glu Gly Asp Phe Asp Leu Trp His
 180 185 190
 Ala Ala Trp Cys Arg Val Asn Thr Val Gln Val Glu Leu Thr Gln Arg
 195 200 205
 Phe Val Ile Arg Arg Ala Leu Thr Leu Thr Leu Asn His Met Asp Gly
 210 215 220
 Tyr Arg Arg Leu Val Val Phe Ser Gly Arg Glu His Leu Ala Val Phe
 225 230 235 240
 Arg Arg Asp Ser Gly Val Phe Val Asp Glu Arg Ser His His Thr Ala
 245 250 255
 His Gly Phe Asp Thr Gln Arg Gln Arg Gly Asn Val Gln Gln Gln Tyr
 260 265 270

Val Phe His Phe Thr Gly Gln Tyr Thr Thr Leu Asn Arg Ser Thr Asp
 275 280 285
 Ser Asn Arg Phe Val Arg Val His Val Phe Thr Trp Leu Phe Thr Lys
 290 295 300
 Glu Phe Ser His Phe Leu Leu Asn His Arg His Thr Ser Leu Thr Thr
 305 310 315 320
 Tyr Gln Asp Asn Val Leu Asn Val Arg His Gly Gln Ala Ser Val Leu
 325 330 335
 Gln Cys Asn Phe Gln Trp Leu Asp Arg Thr Val His Gln Val Phe Tyr
 340 345 350
 Gln Ala Phe Gln Phe Arg Thr Gly His Phe Asp Val His Val Phe Trp
 355 360 365
 Thr Gly Arg Val Cys Ser Asp Val Arg Gln Val His Val Gly Leu Leu
 370 375 380
 Ser Gly Arg Gln Leu Asp Leu Arg Phe Leu Ser Gly Phe Phe Gln Ala
 385 390 395 400
 Leu His Ser Gln Arg Val Val Thr Gln Val Asn Ala Leu Ile Phe Leu
 405 410 415
 Glu Leu Val Asn Glu Val Val Asp Gln Trp Gly Ile Glu Val Phe Thr
 420 425 430
 Thr Gln Val Gly Ile Thr Val Gly Cys Gln Asn Phe Glu Gly Phe Phe
 435 440 445
 Ala Val Asn Ile Val Asp Phe Asp Asn Arg Asn Ile Glu Gly Thr Thr
 450 455 460
 Thr Gln Val Val Asn Arg Asp Ser Thr Val Ala Asn Phe Phe Ile Gln
 465 470 475 480
 Thr Val Ser Gln Cys Cys Cys Gly Trp Phe Val Asp Asp Thr Phe Tyr
 485 490 495
 Phe Gln Ala Cys Asp Thr Ala Ser Ile Phe Gly Cys Leu Thr Leu Ser
 500 505 510
 Ile Val Glu Val Ser Arg Tyr Gly Asp Asn Ser Phe Ser Tyr Arg Phe
 515 520 525
 Thr Gln Val Ile Phe Arg Ser Phe Leu His Phe Leu Gln His Phe Ser
 530 535 540
 Arg Asp Leu Arg Arg Cys Ser Phe Gly Ala Phe His Ile Lys Pro Cys
 545 550 555 560
 Ile Ala Val Ile Gly Cys Asp Asp Phe Val Arg His Asp Gly Asn Val
 565 570 575
 Thr Leu Asn Phe Phe Val Leu Glu Ala Ala Asn Gln Ala Phe Asp
 580 585 590
 Arg Lys Gln Gly Val Leu Arg Val Cys His Cys Leu Thr Phe Ser Arg
 595 600 605
 Leu Thr Asn Gln Ser Phe Thr Ile Leu Gly Ile Ser Asn Asp Arg Arg
 610 615 620
 Arg Gly Ala Ile Ala Leu Gly Val Leu Gln His Thr Cys Ser Ser Ala
 625 630 635 640
 Ile His Asn Arg Tyr Thr Arg Val Gly Ser Thr Gln Val Asp Thr Asn
 645 650 655
 Asn Phe Thr His Leu Asn Val Ser Thr Lys Asn Ser Val Asn Met Trp
 660 665 670
 Leu Cys Thr Cys Asn Lys Gly Arg Thr Cys Phe Phe Asn Cys Pro Asp
 675 680 685
 Leu Ile Phe Phe Arg Ser Thr His Cys Gly Cys Leu Gln Asp Gly Val
 690 695 700
 Thr Thr Ala Ser Ile Lys Gly Gly Arg Ile Lys Asn Phe Leu Ile Ser
 705 710 715 720
 Pro Pro Met Arg Ser
 725

<210> 6184

<211> 229

<212> PRT

<213> *Enterobacter cloacae*

<400> 6184

```

Ser Gly Arg Tyr Arg Asp Tyr Arg Ala Val Leu His Gln Arg Ser Val
1      5      10      15
Arg Ser Val Ala Glu Arg Gly Gly Arg Gly Tyr Cys Gly Ala Gly Val
20      25      30
Ala Glu Arg Leu Gln Arg Pro Thr His Gly Asp Leu Tyr Ser Gly Gly
35      40      45
Asp Gly Ala Val Asp Gly Gly Ala Glu Val Trp Arg Ala Cys His Ala
50      55      60
Gly Gly Arg His Arg Trp Leu Leu Tyr Ser Ala Glu Gly Thr Gly Arg
65      70      75      80
Gln Ile Ala Cys Gln Thr Ala Gly Ala Cys Ala Ser Ser Val Gly Gly
85      90      95
Phe Tyr Asp Pro Ala Ala Val Cys Val Cys Gln Arg Gly Cys Phe Pro
100      105      110
Trp Pro Gly Val Thr Leu Asp Gly Leu Thr Ser Val Leu Pro Leu Gly
115      120      125
Ile Ile Ala Gly Leu Phe Ile Gly Lys Pro Leu Gly Ile Ser Leu Phe
130      135      140
Cys Trp Leu Ala Leu Lys Leu Lys Leu Ala Ser Leu Pro Asn Gly Thr
145      150      155      160
Thr Phe Ser Gln Ile Met Ala Val Gly Val Leu Cys Gly Ile Gly Phe
165      170      175
Thr Met Ser Ile Phe Ile Ser Thr Leu Ala Phe Gly Ala Ser Ala Pro
180      185      190
Glu Leu Ile Val Trp Ala Lys Leu Gly Ile Leu Ile Gly Ser Phe Leu
195      200      205
Ala Ala Val Met Gly Tyr Thr Leu Leu Lys Val Lys Leu Ser Gly Gln
210      215      220
Ala Val Gln Thr
225

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<210> 6185

<211> 638

<212> PRT

<213> *Enterobacter cloacae*

<400> 6185

```

Met Gly Lys Ile Ile Gly Ile Asp Leu Gly Thr Thr Asn Ser Cys Val
1      5      10      15
Ala Ile Met Asp Gly Thr Thr Ala Arg Val Leu Glu Asn Ala Glu Gly
20      25      30
Asp Arg Thr Thr Pro Ser Ile Ile Ala Tyr Thr Gln Asp Gly Glu Thr
35      40      45
Leu Val Gly Gln Pro Ala Lys Arg Gln Ala Val Thr Asn Pro Gln Asn
50      55      60
Thr Leu Phe Ala Ile Lys Arg Leu Ile Gly Arg Arg Phe Gln Asp Glu
65      70      75      80
Glu Val Gln Arg Asp Val Ser Ile Met Pro Tyr Lys Ile Ile Ala Ala
85      90      95
Asp Asn Gly Asp Ala Trp Leu Asp Val Lys Gly Thr Lys Thr Ala Pro
100      105      110
Pro Gln Ile Ser Ala Glu Val Leu Lys Lys Met Lys Lys Thr Ala Glu
115      120      125
Asp Tyr Leu Gly Glu Pro Val Thr Glu Ala Val Ile Thr Val Pro Ala
130      135      140
Tyr Phe Asn Asp Ala Gln Arg Gln Ala Thr Lys Asp Ala Gly Arg Ile
145      150      155      160

```

Ala Gly Leu Glu Val Lys Arg Ile Ile Asn Glu Pro Thr Ala Ala Ala
 165 170 175
 Leu Ala Tyr Gly Leu Asp Lys Glu Val Gly Asn Arg Thr Ile Ala Val
 180 185 190
 Tyr Asp Leu Gly Gly Gly Thr Phe Asp Ile Ser Ile Ile Glu Ile Asp
 195 200 205
 Asp Val Asp Gly Glu Lys Thr Phe Glu Val Leu Ala Thr Asn Gly Asp
 210 215 220
 Thr His Leu Gly Gly Glu Asp Phe Asp Thr Arg Leu Ile Asn Tyr Leu
 225 230 235 240
 Val Asp Glu Phe Lys Lys Asp Gln Gly Ile Asp Leu Arg Asn Asp Pro
 245 250 255
 Leu Ala Met Gln Arg Leu Lys Glu Ala Ala Glu Lys Ala Lys Ile Glu
 260 265 270
 Leu Ser Ser Ala Gln Gln Thr Asp Val Asn Leu Pro Tyr Ile Thr Ala
 275 280 285
 Asp Ala Thr Gly Pro Lys His Met Asn Ile Lys Val Thr Arg Ala Lys
 290 295 300
 Leu Glu Ser Leu Val Glu Asp Leu Val Asn Arg Ser Ile Glu Pro Leu
 305 310 315 320
 Lys Val Ala Leu Gln Asp Ala Gly Leu Ser Val Ser Asp Ile Gln Asp
 325 330 335
 Val Ile Leu Val Gly Gly Gln Thr Arg Met Pro Met Val Gln Lys Lys
 340 345 350
 Val Ala Glu Phe Phe Gly Lys Glu Pro Arg Lys Asp Val Asn Pro Asp
 355 360 365
 Glu Ala Val Ala Ile Gly Ala Ala Val Gln Gly Gly Val Leu Thr Gly
 370 375 380
 Glu Val Lys Asp Val Leu Leu Leu Asp Val Thr Pro Leu Ser Leu Gly
 385 390 395 400
 Ile Glu Thr Met Gly Gly Val Met Thr Ala Leu Ile Asn Lys Asn Thr
 405 410 415
 Thr Ile Pro Thr Lys His Ser Gln Val Phe Ser Thr Ala Glu Asp Asn
 420 425 430
 Gln Ser Ala Val Thr Ile His Val Ile Gln Gly Glu Arg Lys Arg Ala
 435 440 445
 Ala Asp Asn Lys Ser Leu Gly Gln Phe Asn Leu Asp Gly Ile Asn Pro
 450 455 460
 Ala Pro Arg Gly Met Pro Gln Ile Glu Val Thr Phe Asp Ile Asp Ala
 465 470 475 480
 Asp Gly Ile Leu His Val Ser Ala Lys Asp Lys Asn Ser Gly Lys Glu
 485 490 495
 Gln Lys Ile Thr Ile Lys Ala Ser Ser Gly Leu Asn Glu Ala Glu Ile
 500 505 510
 Glu Lys Met Val Arg Asp Ala Glu Ala Asn Ala Glu Ser Asp Arg Lys
 515 520 525
 Phe Glu Glu Leu Val Gln Thr Arg Asn Gln Gly Asp His Leu Leu His
 530 535 540
 Ser Thr Arg Lys Gln Val Glu Glu Ala Gly Asp Lys Leu Pro Ala Glu
 545 550 555 560
 Asp Lys Thr Ala Ile Glu Thr Ala Leu Ser Ala Leu Glu Thr Ser Leu
 565 570 575
 Lys Gly Glu Asp Lys Ala Asp Ile Glu Ala Lys Met Gln Glu Leu Ala
 580 585 590
 Gln Val Ser Gln Lys Leu Met Glu Ile Ala Gln Gln Gln His Ala Gln
 595 600 605
 Gln Gln Ala Gly Ala Asp Ala Ser Ala Asn Asn Ala Lys Asp Asp Asp
 610 615 620
 Val Val Asp Ala Glu Phe Glu Glu Val Lys Asp Lys Lys
 625 630 635

<210> 6186

<211> 337

<212> PRT

<213> *Enterobacter cloacae*

<400> 6186

```

Ser Val Phe Thr Asp Leu Phe Ala Leu Ile Leu Trp Phe Tyr Arg Gly
1      5      10      15
Ile Val Val Lys Glu Ser Leu Asn Val Lys Leu Leu His Arg Phe Phe
20     25     30
Ser Ser Glu Ala Ser Gly Gly Val Ile Leu Ile Ala Ala Ala Ala
35     40     45
Ala Met Leu Leu Ala Asn Met Gly Met Thr Arg Asp Leu Tyr His Ala
50     55     60
Phe Leu Glu Thr Pro Val Glu Leu Lys Val Gly Ala Leu Glu Ile Asn
65     70     75
Lys Asn Met Leu Leu Trp Ile Asn Asp Ala Leu Met Ala Val Phe Phe
85     90     95
Leu Leu Val Gly Leu Glu Val Lys Arg Glu Leu Val Ser Gly Ser Leu
100    105
Ala Ser Arg Gln Arg Ala Ala Phe Pro Val Ile Ala Ala Ile Gly Gly
115    120    125
Met Ile Val Pro Ala Leu Leu Phe Leu Ala Phe Ala Trp Gln Asp Pro
130    135    140
Val Ala Arg Asp Gly Trp Ala Ile Pro Ala Ala Thr Asp Ile Ala Phe
145    150    155    160
Ala Leu Gly Val Leu Ser Leu Leu Gly Ser Arg Val Pro Val Ala Leu
165    170    175
Lys Ile Phe Leu Met Ala Leu Ala Ile Ile Asp Asp Leu Gly Ala Ile
180    185    190
Val Ile Ile Ala Leu Phe Tyr Thr Ser Asp Leu Ser Val Leu Ser Leu
195    200    205
Ser Val Ala Ala Val Ala Ile Ala Val Leu Ala Leu Leu Asn Val Phe
210    215    220
Asn Val Arg Arg Thr Gly Ile Tyr Ile Leu Val Gly Met Val Leu Trp
225    230    235    240
Thr Ala Val Leu Lys Ser Gly Val His Ala Thr Leu Ala Gly Val Ile
245    250    255
Val Gly Phe Phe Ile Pro Leu Lys Glu Gln Asp Gly Lys Ser Pro Ala
260    265    270
Arg Gln Leu Glu His Val Leu His Pro Trp Val Gly Phe Met Ile Leu
275    280    285
Pro Leu Phe Ala Phe Ala Asn Ala Gly Val Ser Pro Gly Pro Gly Leu
290    295    300
Pro Trp Thr Asp Ser Pro Leu Cys Cys Arg Trp Val Ser Ser Pro Val
305    310    315    320
Cys Leu Leu Val Ser Arg Trp Ala Ser Ala Cys Ser Ala Gly Trp Arg
325    330    335

```

<210> 6187

<211> 329

<212> PRT

<213> *Enterobacter cloacae*

<400> 6187

```

Ser Cys Pro Asp Arg Leu Ser Arg His Asn Arg Lys Pro Gly Glu Gly
1      5      10      15
Lys Pro Ser Pro Asp Lys Leu Ser Gly Ser Glu Asn Val Met Ser His
20     25     30

```

Leu Asn Tyr Asn His Leu Tyr Tyr Phe Trp His Val Tyr Lys Gln Gly
 35 40 45
 Ser Val Val Gly Ala Ala Glu Ala Leu Tyr Leu Thr Pro Gln Thr Ile
 50 55 60
 Thr Gly Gln Ile Lys Ala Leu Glu Glu Arg Leu Gln Gly Lys Leu Phe
 65 70 75 80
 Lys Arg Lys Gly Arg Gly Ile Glu Pro Ser Glu Leu Gly Glu Leu Val
 85 90 95
 Phe Arg Tyr Ala Asp Lys Met Phe Thr Leu Ser Gln Glu Met Leu Asp
 100 105 110
 Ile Val Asn Tyr Arg Lys Glu Leu Asn Leu Leu Phe Asp Val Gly Val
 115 120 125
 Ala Asp Ala Leu Ser Lys Arg Leu Val Ser Gly Val Leu Asp Ala Ala
 130 135 140
 Val Val Glu Asp Glu Gln Ile His Leu Arg Cys Phe Glu Ser Thr His
 145 150 155 160
 Glu Met Leu Leu Glu Gln Leu Ser Gln His Lys Leu Asp Met Ile Ile
 165 170 175
 Ser Asp Cys Pro Ile Asp Ser Thr Gln Gln Glu Gly Leu Phe Ser Val
 180 185 190
 Lys Ile Gly Glu Cys Gly Val Ser Phe Trp Cys Ile Asn Pro Pro Pro
 195 200 205
 Glu Lys Pro Phe Pro Ala Cys Leu Glu Glu Arg Arg Leu Leu Val Pro
 210 215 220
 Gly Arg Arg Ser Met Leu Gly Arg Lys Leu Leu Asn Trp Phe Asn Ser
 225 230 235 240
 Gln Gly Leu Asn Val Glu Ile Leu Gly Glu Phe Asp Asp Ala Ala Leu
 245 250 255
 Met Lys Ala Phe Gly Glu Ala His Asn Ala Ile Phe Val Ala Pro Thr
 260 265 270
 Leu Tyr Val His Asp Leu Tyr Ser Asp Asp Lys Ile Thr Glu Ile Gly
 275 280 285
 Arg Val Asp Asn Val Met Glu Glu Tyr His Ala Ile Phe Ala Glu Arg
 290 295 300
 Met Ile Gln His Pro Ala Val Gln Arg Ile Cys Asn Arg Asp Tyr Ser
 305 310 315 320
 Ala Leu Phe Thr Pro Pro Ala Ile
 325

<210> 6188

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 6188

Ala Phe Arg Lys Leu Arg Lys Ser Val Lys Ser Lys Lys Ala Tyr Lys
 1 5 10 15
 Arg Leu Ala Met Lys Phe His Pro Asp Arg Asn Gln Gly Asp Lys Glu
 20 25 30
 Ala Glu Ala Lys Phe Lys Glu Ile Lys Glu Ala Tyr Glu Val Leu Thr
 35 40 45
 Asp Ala Gln Lys Arg Ala Ala Tyr Asp Gln Tyr Gly His Ala Ala Phe
 50 55 60
 Glu Gln Gly Gly Met Gly Gly Gly Phe Gly Gly Gly Phe Gly
 65 70 75 80
 Gly Gly Ala Asp Phe Ser Asp Ile Phe Gly Asp Val Phe Gly Asp Ile
 85 90 95
 Phe Gly Gly Gly Arg Gly Arg Gln Arg Ala Arg Gly Ala Asp Leu
 100 105 110
 Arg Tyr Asn Met Asp Leu Thr Leu Glu Glu Ala Val Arg Gly Val Thr
 115 120 125

Lys Glu Ile Arg Ile Pro Thr Leu Glu Glu Cys Asp Val Cys His Gly
 130 135 140
 Ser Gly Ala Lys Ala Gly Thr Gln Pro Gln Thr Cys Pro Thr Cys His
 145 150 155 160
 Gly Ser Gly Gln Val Gln Met Arg Gln Gly Phe Phe Ala Val Gln Gln
 165 170 175
 Ala Cys Pro His Cys His Gly Arg Gly Thr Leu Ile Lys Asp Pro Cys
 180 185 190
 Thr Lys Cys His Gly His Gly Arg Val Glu Lys Thr Lys Thr Leu Ser
 195 200 205
 Val Lys Ile Pro Ala Gly Val Asp Thr Gly Asp Arg Ile Arg Leu Ala
 210 215 220
 Gly Glu Gly Glu Ala Gly Glu His Gly Ala Pro Ala Gly Asp Leu Tyr
 225 230 235 240
 Val Gln Val Gln Val Lys Gln His Ala Ile Phe Glu Arg Glu Gly Asn
 245 250 255
 Asn Leu Tyr Cys Glu Val Pro Ile Asn Phe Ala Met Ala Ala Leu Gly
 260 265 270
 Gly Glu Ile Glu Val Pro Thr Leu Asp Gly Arg Val Asn Leu Lys Ile
 275 280 285
 Pro Gly Glu Thr Gln Thr Gly Lys Leu Phe Arg Met Arg Gly Lys Gly
 290 295 300
 Val Lys Ser Val Arg Gly Gly Ala Gln Gly Asp Leu Leu Cys Arg Val
 305 310 315 320
 Val Val Glu Thr Pro Val Gly Leu Asn Asp Lys Gln Lys Gln Leu Leu
 325 330 335
 Lys Glu Leu Gln Glu Ser Phe Gly Gly Pro Thr Gly Glu Lys Asn Ser
 340 345 350
 Pro Arg Ser Lys Ser Phe Phe Asp Gly Val Lys Lys Phe Phe Asp Asp
 355 360 365
 Leu Thr Arg
 370

<210> 6189

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 6189

Arg Gly Ala Ser Gly Gly Ser Trp Ala Lys Val Leu Thr Thr Asp Gln
 1 5 10 15
 Lys Arg Glu Ala Val Met Leu Met Cys Asp Ala Thr Gly Leu Ser Gln
 20 25 30
 Arg Arg Ala Cys Arg Leu Thr Ser Leu Ser Leu Ser Thr Cys Arg Tyr
 35 40 45
 Glu Ala His Arg Pro Ala Ala Asp Ala His Leu Ser Gly Arg Ile Thr
 50 55 60
 Glu Leu Ala Leu Glu Arg Arg Arg Phe Gly Tyr Arg Arg Asn Leu Ala
 65 70 75 80
 Asn Cys Cys Pro Val Lys Gly Phe Met Leu Ile Ile Ser Ala Gly Thr
 85 90 95
 Gly Phe Ile Thr Ser Val Ala Trp Ala
 100 105

<210> 6190

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6190

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser

```

1           5           10           15
Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
                20           25           30
Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
                35           40           45
Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
                50           55           60
Leu Lys Ser Leu Glu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
        65           70           75           80
Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
                85           90           95
Tyr

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<210> 6191

<211> 187

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (7)

<400> 6191

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Lys Gly Trp Gln Gln Asn Xaa Cys Arg Cys Ser Val Pro Ala Ala Pro
1           5           10           15
Asn Leu Thr Trp Ser Met Asp Phe Val Met Asp Ala Leu Ser Thr Gly
        20           25           30
Arg Arg Ile Lys Cys Leu Thr Cys Val Asp Asp Phe Thr Lys Glu Cys
        35           40           45
Leu Thr Val Thr Val Ala Phe Gly Ile Ser Gly Val Gln Val Thr Arg
        50           55           60
Ile Leu Asp Ser Ile Ala Leu Phe Arg Gly Tyr Pro Ala Thr Ile Arg
        65           70           75           80
Thr Asp Gln Gly Pro Glu Phe Thr Cys Arg Ala Leu Asp Gln Trp Ala
        85           90           95
Phe Glu His Gly Val Glu Leu Arg Leu Ile Gln Pro Gly Lys Pro Thr
        100           105           110
Gln Asn Gly Phe Ile Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu Cys
        115           120           125
Leu Asn Glu His Trp Phe Ser Asp Ile Val His Ala Arg Lys Ile Ile
        130           135           140
Asn Asp Trp Arg Gln Asp Tyr Asn Glu Cys Arg Pro His Ser Thr Leu
        145           150           155           160
Asn Tyr Gln Thr Pro Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly His
        165           170           175
Ser Glu Asn Glu Asp Ser Asp Val Thr Asn
        180           185

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<210> 6192

<211> 806

<212> PRT

<213> Enterobacter cloacae

<400> 6192

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Gly Thr Gly Asn Trp Leu Gln Asn Cys Asn Val Glu Thr Ser Lys Lys
1           5           10           15
Thr Val Thr Thr His Tyr Pro Asp Tyr Lys Glu Phe Tyr Cys Asn Ser
        20           25           30
Pro Lys Gln Asp Asn Phe Ser Ser Cys Thr Ile Thr Arg Asp Phe Ser
        35           40           45

```

Val Pro Val Tyr Ile Ser Gly Gly Asn Gly Asp Met Ser Met Cys Gly
 50 55 60
 Asp Asn Cys Val Arg Ile Trp Phe Gly Arg Arg Asp Asp Asn Tyr Trp
 65 70 75 80
 Ser Asp Gly Val Tyr Asp Asn Glu Leu Thr Leu Lys Phe His Pro Asp
 85 90 95
 Ala Lys Leu Ala Ser Ala Lys Ile Val Asn Ala Glu Trp Asp Asp His
 100 105 110
 Met Arg Val Thr Leu Asp Gly Thr Gln Ile Phe Ala His Ile Asp Gly
 115 120 125
 Ala Tyr Arg Glu Ser Asp Tyr Pro Ala Pro Lys Gly Ser Trp Glu Leu
 130 135 140
 Lys Lys Ser Trp Lys Leu Asp Lys Val Tyr Asp Val Thr Asp Lys Val
 145 150 155 160
 Arg Lys Ser Val Tyr Glu Glu Pro Asp Arg Glu Val Thr Met Ala Ser
 165 170 175
 Arg Val Trp Val Gly Gly Lys Gly Glu Gly Tyr Phe Glu Val Glu Leu
 180 185 190
 Thr Phe Glu Asn Met Lys Leu Glu Asp Lys His Val Gln Glu Pro Ala
 195 200 205
 Gly Cys Tyr Asp Ala Val Gln Ala Pro Asn Thr Phe Cys Arg Phe Asp
 210 215 220
 Arg Phe Lys Asp Met Asp Val Gly Thr Lys Arg Leu Pro Glu Ser Val
 225 230 235 240
 Leu Ser Leu Ala Lys Pro Leu Tyr Glu Gly Asp Lys Gly Phe Leu Thr
 245 250 255
 Trp Lys Thr Asn Leu Glu Gly Tyr Phe Cys Asp Pro Leu Ala Lys Asp
 260 265 270
 Lys Ile Cys Ser Tyr Asp Ala Ser Gly Lys Ile Met Lys Asp Ala Asn
 275 280 285
 Gly Lys Asp Leu Cys Tyr Asn Tyr Glu Glu Ile Lys Ser Met Pro Asp
 290 295 300
 Ala Cys Ser Ala Tyr Lys Asn Asp Ala Ala Cys Val Leu Asp Lys Gln
 305 310 315 320
 Thr Cys Ala Glu Gly Trp Phe Asp Glu Gly Thr Asn Ser Cys Tyr Met
 325 330 335
 Tyr Glu Gln Lys Tyr Thr Cys Asp Arg Gly Lys Asp Val Val Arg Glu
 340 345 350
 Val Glu Ser Ser Thr Asn Ala Cys Val Gly Met Ile Pro Cys Ser Gly
 355 360 365
 Gly Thr Cys Glu Thr Gly Pro Lys Glu Glu Asn Asn Asp Phe Gly Lys
 370 375 380
 Val Ala Ala Tyr Ser Asn Met Val Gln Tyr Met Gln Gly Glu Ala Lys
 385 390 395 400
 Cys Glu Asp Pro Asn Asp Ala Asn Ser Cys Ser Val Phe Glu Gly Lys
 405 410 415
 Pro Glu Trp Cys Gly Arg Ser Val Gly Phe Val Asn Gly Leu Ala Lys
 420 425 430
 Thr Asp Cys Cys Glu Ala Pro Gln Gly Thr Ala Gly Ala Leu Glu Gly
 435 440 445
 Ile Met Leu Ala Gly Ser Met Ile Arg Asn Thr Asn Trp Thr Arg Val
 450 455 460
 Asn Ala Gln Leu Ile Lys Trp Thr Gly Gly Asp Thr Gly Thr Trp Ala
 465 470 475 480
 Ser Met Ser Asn Ala Val Gly Glu Trp Thr Ala Ser Ala Gly Lys Thr
 485 490 495
 Val Gly Gln Met Trp Asn Asn Val Thr Ser Ser Leu Thr Ser Val Tyr
 500 505 510
 Glu Asn Val Ala Gly Asn Leu Ser Arg Ala Val Gly Ser Ser Ala Thr
 515 520 525
 Ser Gly Gly Ala Gly Gly Ala Gly Gln Leu Ala Gln Glu Thr Met Ser

530 535 540
 Ser Phe Gly Ile Gly Gln Leu Lys Gln Met Ala Met Lys Lys Ala Tyr
 545 550 555 560
 Glu Leu Leu Pro Asp Thr Val Arg Asp Phe Val Phe Lys Asn Val Ala
 565 570 575
 Thr Thr Gly Gly Glu Val Val Phe Ser Ala Ala Val Gln Asn Phe Met
 580 585 590
 Leu Ala Leu Asn Val Ile Gly Trp Ile Tyr Thr Ala Tyr Gln Val Thr
 595 600 605
 Lys Met Leu Leu Glu Met Leu Val Ala Cys Asp Gln Lys Glu Met Glu
 610 615 620
 Ala Ser Ile His Lys Asn Gln Lys Ser Cys Phe Thr Leu Asp Thr Glu
 625 630 635 640
 Arg Cys Val Lys Tyr Leu Asn Val Gly Phe Thr Lys Lys Cys Val Lys
 645 650 655
 Lys Ala Thr Asp Met Cys Cys Tyr Asn Ser Met Leu Ser Arg Val Ile
 660 665 670
 Met Gln Gln Ala Tyr Pro Gln Leu Gly Ile Asp Pro Val Ala Ser Asn
 675 680 685
 Cys Val Gly Leu Ser Ile Lys Gln Ile Gln Gln Leu Asp Phe Asp Lys
 690 695 700
 Ile Asp Leu Thr Glu Trp Ile Asn Asp Ala Val Gln Val Gly Glu Val
 705 710 715 720
 Pro Asp Gln Tyr Ser Lys Phe Ser Glu Glu Ser Ile Val Glu Asn Leu
 725 730 735
 Pro Phe Gln Asn Glu Asn Tyr Gln Leu Pro Ser Glu Arg Thr Lys Glu
 740 745 750
 Ala Met Gly Gly Glu Glu Asn Met Ile Lys Ala Arg Gln Glu Asn Ala
 755 760 765
 Gln Ala Ile Lys Glu Glu Asn Val Asp Cys Ser Tyr Leu Pro Arg Pro
 770 775 780
 Ala Ile Cys Glu Val Gly Ser Thr Thr Leu Asp Pro Val Thr Gly Lys
 785 790 795 800
 Gln Leu Pro Lys Tyr
 805

<210> 6193

<211> 560

<212> PRT

<213> *Enterobacter cloacae*

<400> 6193

Leu Leu Lys Arg Ser Asn Glu Val Glu Met Gly Lys Pro Thr Glu Glu
 1 5 10 15
 Gln Arg Pro Val Ile Glu Asn Ala Ser Ala Asn Asn Met Val Ile Ala
 20 25 30
 Ala Pro Gly Ser Gly Lys Ser Phe Thr Met Ile Glu Ala Val Ile Ser
 35 40 45
 Ile Leu Lys Lys Tyr Pro Tyr Ala Arg Ile Gly Met Val Thr Phe Thr
 50 55 60
 Arg Ala Ala Thr Asn Ala Leu Ala Ala Lys Leu Gln Lys Arg Leu Ser
 65 70 75 80
 Lys Lys Asp Leu Asp Arg Val Leu Val Asp Thr Phe His Gly Leu Val
 85 90 95
 Lys Lys Gln Leu Asp Met Ile Arg Trp Pro Gly Lys Met Leu Ile Gly
 100 105 110
 Pro Ala Gln Arg Ser Val Ile His Arg Ala Leu Lys Glu Ser Gly Val
 115 120 125
 Thr Met Lys Phe Ala Glu Ala Glu Phe Val Ile Asp Ala Ile Gly Arg
 130 135 140
 Glu Met Asp Thr Asp Val Ile Ser Val Arg His Asn Arg Gln Gln Ile

145 150 155 160
 His Leu Phe Asn Thr Tyr Gln Ala Leu Cys Gln Lys Asp His Val Ala
 165 170 175
 Asp Leu Asn Ala Leu Ser Lys Phe Val Val Gly Gln Met His Ser Gly
 180 185 190
 Lys Met Arg Thr Leu Asp Leu Thr His Leu Ile Val Asp Glu Val Gln
 195 200 205
 Asp Thr Asp Ser Ile Gln Phe Ser Trp Ile Ala Leu His Thr Arg Ala
 210 215 220
 Gly Val Tyr Thr Ser Ile Val Gly Asp Asp Asp Gln Ala Ile Tyr Ser
 225 230 235 240
 Phe Arg Ser Ser Gly Gly Val Lys Ile Phe Gln Gln Phe Glu Lys His
 245 250 255
 Phe Arg Pro Asn Ile Phe Tyr Leu Asn Thr Cys Phe Arg Cys Glu Pro
 260 265 270
 Glu Ile Leu Glu Val Ala Gly Ala Leu Ile Gly Lys Asn Val Tyr Arg
 275 280 285
 Tyr Ala Lys Glu Leu Arg Ser Ala Lys Lys Gly Gly Lys Val Thr
 290 295 300
 Phe Arg Ser Tyr Val Asp Met Glu Glu Gln Ile Gln Gly Ile Leu Ser
 305 310 315 320
 Leu Ile Asn Gln Asp Pro His Gly Trp Ala Ile Leu Ser Arg Asn Asn
 325 330 335
 Ala His Leu Asp Glu Leu Glu Ser Leu Ile Glu Gln Pro Val Ile Arg
 340 345 350
 Tyr Gly Gly Lys Ser Phe Trp Asp Glu Lys Glu Thr Ser Asp Val Leu
 355 360 365
 Ser Leu Met Ala Phe Phe Arg Gln Ser Asn Asp Pro Arg Leu Met Lys
 370 375 380
 Arg Val Leu Ala Leu Phe Gly Glu Gln Glu Ser Val Leu Asp Glu Val
 385 390 395 400
 Ala Leu Ser Met Arg Gly Arg Lys Val Thr Phe Gly Asp Leu Ala Ile
 405 410 415
 Pro Glu Asp Ser Ser Leu Glu Thr Lys Thr Leu His Ser Asn Phe Val
 420 425 430
 Arg Phe Thr Gln Glu Ser Ser Asp Lys Val Glu Ile Ala Lys Arg Phe
 435 440 445
 Ala Asn Leu Thr Lys Trp Met Glu Ser Ser Ser Ile Lys Met Arg Ser
 450 455 460
 Asn Lys Gly Thr Ala Thr Leu Thr Lys Ile Ala Leu Asp Thr Cys Lys
 465 470 475 480
 Gln Trp Ala Glu Lys Thr Gly Trp Met Asn Met Ile Asn Arg Ala Ala
 485 490 495
 Ala Met Ser Leu Gly Pro Arg Lys Lys Asp Glu Glu Tyr Ser Pro Glu
 500 505 510
 Lys Val Val Leu Ser Thr Leu His Gly Ser Lys Gly Leu Glu Trp Asn
 515 520 525
 Lys Val Ile Ile Met Ser Cys Asn Ala Asp Gln Ile Pro Ser Lys Arg
 530 535 540
 Ser Val Gly Glu Glu Ala Ile Lys Lys Glu Arg Arg Leu Leu Tyr Val
 545 550 555 560

<210> 6194

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 6194

Leu Lys Val Tyr Leu Met Lys Lys Thr Thr Ser Arg Lys Ala Ala Arg
 1 5 10 15
 Arg Pro Ala Lys His Thr Asp Leu Tyr Arg Gln Ile Thr Asp Arg Ile

20 25 30
 Val Val Ala Leu Glu Asn Gly Val Ala Pro Trp Arg Lys Pro Trp Arg
 35 40 45
 Ala Ala Ala Gly Ser Gly Leu Ala Gly Leu Pro Leu Asn Ala Thr Thr
 50 55 60
 Gly Arg His Tyr Ser Gly Val Asn Val Leu Leu Trp Met Ser Ala
 65 70 75 80
 Glu Glu Gln Gly Phe Arg Asn Asn Arg Trp Leu Thr Tyr Arg Gln Ala
 85 90 95
 Gln Pro Gly Arg Arg Pro Gly Ala Lys Gly
 100 105

<210> 6195

<211> 300

<212> PRT

<213> *Enterobacter cloacae*

<400> 6195

Met Ser Arg Phe Ser Lys Gln Leu Cys Lys Gln Leu Val Thr Leu Ala
 1 5 10 15
 Arg Gln Gly Arg Gly Ser Tyr Lys Thr Val Ala Asp Arg Ser Arg Ile
 20 25 30
 Ala Glu Arg Phe Ser Glu Arg Leu Ser Glu Leu Asn Ile Gln Ile Arg
 35 40 45
 Asp Val Lys His Ile Lys Thr Ser His Ile Glu Lys Tyr Ile Glu Ser
 50 55 60
 Arg Lys Ala Asp Asn Leu Ser Leu Arg Thr Leu Gln Asn Glu Met Ser
 65 70 75 80
 Ala Ile Arg Ser Val Leu Leu Ser Ala Gly Arg Asn Lys Leu Ala Asp
 85 90 95
 Pro Ser His Ile Asn Leu Ser Asn Gln Ala Leu Gly Ile Ser Gly Ala
 100 105 110
 Asn Arg Asp Gly Thr Lys Leu Pro Ile Thr Asp Glu Lys Leu Asn Ala
 115 120 125
 Val Val Ser Phe Ala Gln Arg Lys Asp Glu Gly Val Ala Leu Ala Val
 130 135 140
 Gln Leu Ser Arg Tyr Leu Gly Leu Arg Thr Gln Lys Thr Val Gln Ser
 145 150 155 160
 Ala Lys Ser Leu Lys Thr Trp Arg Gln Ala Leu Ile Asn Asn His Glu
 165 170 175
 Arg Val Arg Val Val Phe Gly Thr Lys Gly Gly Arg Pro Arg Glu Thr
 180 185 190
 Thr Val Phe Asn Arg Glu Lys Val Leu Ser Ile Leu Asp Lys Ala Ile
 195 200 205
 His Tyr Val Ser Glu His Asn Gly Lys Leu Ile Asp Asn Pro Ser Leu
 210 215 220
 His Ser Ala Ile Asp Arg Tyr Arg Asn Ile Val Arg Glu Ala Gly Met
 225 230 235 240
 Asn Gly Lys Asn Ala Pro His Ser Leu Arg Tyr Ala Tyr Ser Arg Asp
 245 250 255
 Ala Val Asn His Ile Lys Asn Gly Met Ser Arg Asp Glu Ala Glu
 260 265 270
 Ala Leu Val Ser Met Asp Leu Gly His Gly Asp Gly Arg Gly Arg Tyr
 275 280 285
 Ile Lys Gln Val Tyr Phe Arg Gly Glu Ala Glu
 290 295 300

<210> 6196

<211> 243

<212> PRT

<213> *Enterobacter cloacae*

<400> 6196

Leu Thr Gly Arg Arg Ser Gln Ala Gly Gly Gln Val Arg Lys Gly Glu
 1 5 10 15
 Lys Ala Thr Leu Ala Val Val Tyr Lys Asp Trp Thr Lys Gln Ala Glu
 20 25 30
 Asp Arg Glu Gly Asn Arg Leu Tyr Asp Ser Asp Gly Lys Pro Leu Thr
 35 40 45
 Glu Thr Val Pro Met Leu Lys Pro Leu Gln Leu Phe Asn Ala Glu Gln
 50 55 60
 Cys Glu Gly Leu Pro Ala Glu Val Ala Ala Ser Pro Glu Gln Pro Pro
 65 70 75 80
 Ala Val Asp Glu Asp Gly Ile Leu Ser Pro Asp Val Met Asp Arg Val
 85 90 95
 Leu Arg Met Val Asn Ala Thr Gly Val Lys His Arg Met Leu Pro Gln
 100 105 110
 Asn Arg Ala Tyr Tyr Arg Pro Leu Thr Asp Glu Ile Val Met Pro Val
 115 120 125
 Ala Gly Gln Phe Phe Thr Glu Ala Asp Trp Trp Ser Thr Leu Leu His
 130 135 140
 Glu Leu Val His Ser Thr Gly His Thr Lys Arg Leu Asn Arg Glu Gly
 145 150 155 160
 Ile Thr Ser Ser Ser Arg Gln Phe Gly Asp Pro Val Tyr Ala Phe Glu
 165 170 175
 Glu Leu Ile Ala Glu Met Gly Ser Ala Phe Leu Cys Ala Gln Leu Gly
 180 185 190
 Val Ser Gly Glu Val Gln His Asp Ser Tyr Val Asp His Trp Leu Lys
 195 200 205
 Val Leu Lys Ser Asp Lys Lys Ala Leu Phe Arg Ala Cys Arg His Ala
 210 215 220
 Arg Glu Ala Ser Glu Tyr Leu Leu Ala Leu Pro Gly Arg Gln Thr Val
 225 230 235 240
 Ala Ala

<210> 6197

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 6197

Glu Tyr Phe Ala Asp Arg Gln Leu Arg Gly Glu Asp Ile Gln Glu Leu
 1 5 10 15
 Glu His Gln Ser Gly Lys Leu Ala Asp Trp Val Arg Asp Leu Leu Cys
 20 25 30
 Arg Lys Ser Asn Phe Val Val Thr Cys Ala Leu Ala Asn Lys Leu Ala
 35 40 45
 Arg Ile Ala Trp Ala Leu Thr Ala Arg Gln Gln Thr Tyr Val Ala
 50 55 60

<210> 6198

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 6198

Arg Asn Asp Ile Asp Phe Gly Leu Glu Leu Ala Thr Thr Ser Ser Thr
 1 5 10 15
 Arg Ser Gly His Gly Leu Pro Leu Val Ala Leu Gly Ala Gly Lys Arg
 20 25 30
 Leu Thr Met Gln Asn Arg Gly Glu Leu Phe His Lys Val Val Val Val

```

      35              40              45
Gln Phe Gln Phe Val His Ala Leu Val Gln Thr Val Val Arg His Tyr
  50              55              60
Arg Arg Asn Cys Gly Glu Gln Thr Asp Cys Gly Arg Asp Gln Cys Phe
  65              70              75              80
Cys Asp Thr Arg Cys Asn His Leu Gln Arg Cys Leu Leu His Arg Pro
      85              90              95
Gln Gly Asp Lys Gly Val His Asp Pro Pro His Arg Thr Lys Gln Ala
  100              105              110
Asp Ile Arg Ala Asp Gly Ala Asn Gly Ser Glu Glu Arg Asn Met Arg
  115              120              125
Phe Lys Ile Phe Gln Phe Ala Val His Gly Asp Ala His Arg Thr Arg
  130              135              140
Arg Pro Phe Tyr His Gly Phe Arg Arg Met Ala Val Ser Ala Met
  145              150              155              160

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<210> 6199

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6199

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Arg Ser Leu Lys Ala Pro Thr Phe Leu Val Leu Pro Gly Cys Lys Val
  1              5              10              15
Asn Thr Thr Leu Phe Arg Trp Pro Val Arg Val Tyr Tyr Glu Asp Thr
  20              25              30
Asp Ala Gly Gly Val Val Tyr His Ala Ser Tyr Val Ala Phe Tyr Glu
  35              40              45
Arg Ala Arg Thr Glu Met Leu Arg His His His Phe Ser Gln Gln Val
  50              55              60
Leu Leu Ala Glu Arg Val Ala Phe Val Val Arg Lys Met Thr Leu Glu
  65              70              75              80
Tyr Phe Ala Pro Ala Arg Leu Asp Asp Met Leu Glu Val Gln Thr Glu
      85              90              95
Ile Thr Ser Met Arg Gly Thr Ser Leu Val Phe Thr Gln Arg Ile Val
  100              105              110
Asn Ala Glu Asn Thr Val Leu Asn Ser Ala Glu Val Leu Ile Val Cys
  115              120              125
Val Asp Pro Thr Ile Met Lys Pro Arg Ala Leu Pro Lys Ser Ile Val
  130              135              140
Ala Glu Phe Lys Gln
  145              150

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<210> 6200

<211> 376

<212> PRT

<213> Enterobacter cloacae

<400> 6200

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Leu Ser Leu Phe Asp His Leu Arg Ser Phe Trp Glu Pro Ile Val Ser
  1              5              10              15
Lys Ala Thr Glu Gln Asn Asp Lys Leu Lys Arg Ala Ile Ile Val Ser
  20              25              30
Ala Val Leu His Val Phe Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe
  35              40              45
Asp Glu His Leu Asp Ala Ser Gly Gly Asp Gly Gly Ser Ser Ile Asp
  50              55              60
Ala Val Met Val Asp Pro Gly Ala Val Val Gln Asn Tyr Asn Arg Gln
  65              70              75              80
Gln Gln Gln Gln Ala Ser Ala Lys Arg Ala Glu Glu Gln Arg Glu Lys
      85              90              95

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Gln Ala Gln Gln Gln Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu
 100 105 110
 Gln Glu Arg Leu Lys Gln Leu Glu Lys Glu Arg Leu Gln Ala Gln Glu
 115 120 125
 Ala Ala Lys Glu Gln Ala Glu Gln Gln Lys Gln Ala Glu Ala Ala Ala
 130 135 140
 Lys Lys Ala Gln Glu Gln Gln Lys Gln Ala Glu Glu Ala Ala Ala Lys
 145 150 155 160
 Ala Ala Ala Asp Ala Lys Ala Gln Ala Asp Ala Gln Ala Lys Leu Ala
 165 170 175
 Ala Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala Gln Lys Lys Ala Glu
 180 185 190
 Ala Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala Lys Lys Lys Ala Glu
 195 200 205
 Ala Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala Gln Lys Lys Ala Glu
 210 215 220
 Ala Glu Ala Ala Lys Lys Ala Ala Gln Glu Ala Glu Lys Lys Ala Ala
 225 230 235 240
 Ala Asp Ala Ala Lys Lys Ala Ala Ala Ala Glu Lys Ala Ala Ala Glu
 245 250 255
 Lys Ala Ala Ala Ala Glu Lys Ala Ala Ala Glu Lys Lys Ala Ala Ala
 260 265 270
 Glu Lys Ala Ala Ala Asp Lys Lys Ala Ala Ala Glu Lys Ala Ala Ala
 275 280 285
 Lys Lys Ala Ala Ala Ala Glu Lys Ala Ala Ala Ala Gly Val Asp Asp
 290 295 300
 Leu Leu Gly Asp Leu Ser Ser Gly Lys Asn Ala Pro Lys Thr Gly Gly
 305 310 315 320
 Gly Ala Lys Gly Ser Asn Ala Ala Pro Ala Gly Ser Gly Asn Thr Lys
 325 330 335
 Asn Asn Gly Ala Ser Gly Ala Glu Ile Asn Asp Tyr Lys Asn Gln Ile
 340 345 350
 Ala Ala Ala Ile Ala Ser Arg Leu Asn Asp Lys Ser Val Leu His Arg
 355 360 365
 Arg Gly Trp Lys Glu Glu Pro Ser
 370 375

<210> 6201

<211> 505

<212> PRT

<213> Enterobacter cloacae

<400> 6201

Arg Phe Leu Phe Val Pro Leu Thr Leu Gly Met Ala Phe Leu Leu Ala
 1 5 10 15
 Ile Met Glu Thr Val Tyr Val Leu Ser Gly Lys Gln Ile Tyr Lys Asp
 20 25 30
 Met Thr Lys Phe Trp Gly Lys Leu Phe Gly Ile Asn Phe Ala Leu Gly
 35 40 45
 Val Ala Thr Gly Leu Thr Met Glu Phe Gln Phe Gly Thr Asn Trp Ser
 50 55 60
 Tyr Tyr Ser His Tyr Val Gly Asp Ile Phe Gly Ala Pro Leu Ala Ile
 65 70 75 80
 Glu Gly Leu Met Ala Phe Phe Leu Glu Ser Thr Phe Val Gly Leu Phe
 85 90 95
 Phe Phe Gly Trp Asp Arg Leu Gly Lys Val Gln His Met Ala Val Thr
 100 105 110
 Trp Leu Val Ala Leu Gly Ser Asn Leu Ser Ala Leu Trp Ile Leu Val
 115 120 125
 Ala Asn Gly Trp Met Gln Asn Pro Ile Ala Ser Asp Phe Asn Phe Glu
 130 135 140

Thr Met Arg Met Glu Met Val Ser Phe Ala Glu Leu Val Leu Asn Pro
 145 150 155 160
 Val Ala Gln Val Lys Phe Val His Thr Val Ala Ser Gly Tyr Val Cys
 165 170 175
 Gly Ala Met Phe Val Leu Gly Ile Ser Ser Tyr Tyr Met Leu Arg Gly
 180 185 190
 Arg Asp Phe Ala Phe Ala Lys Arg Ser Phe Ala Ile Ala Ala Ser Phe
 195 200 205
 Gly Met Ala Ala Ile Leu Ser Val Ile Val Leu Gly Asp Glu Ser Gly
 210 215 220
 Tyr Glu Met Gly Asp Val Gln Lys Thr Lys Leu Ala Ala Ile Glu Ala
 225 230 235 240
 Glu Trp Glu Thr Gln Pro Ala Pro Ala Ala Phe Thr Leu Phe Gly Val
 245 250 255
 Pro Asp Gln Glu Ala Gln Glu Asn Arg Phe Ala Ile Gln Ile Pro Tyr
 260 265 270
 Ala Leu Gly Ile Ile Ala Thr Arg Ser Val Asp Lys Gln Val Thr Gly
 275 280 285
 Leu Lys Asp Leu Met Val Gln His Glu Glu Arg Ile Arg Asn Gly Met
 290 295 300
 Lys Ala Tyr Ser Leu Leu Glu Gln Leu Arg Ala Gly Ser Thr Asp Gln
 305 310 315 320
 Ala Val Arg Asp Gln Phe Asn Asp Val Lys Lys Asp Leu Gly Tyr Gly
 325 330 335
 Leu Leu Leu Lys Arg Tyr Thr Pro Asn Val Ser Asp Ala Thr Glu Ala
 340 345 350
 Gln Ile Gln Met Ala Thr Lys Asp Ser Ile Pro Arg Val Ala Pro Leu
 355 360 365
 Tyr Phe Ala Phe Arg Ile Met Val Gly Cys Gly Ile Ile Met Leu Leu
 370 375 380
 Ile Ile Ala Ala Ser Phe Trp Ser Val Ile Arg Asn Arg Ile Gly Glu
 385 390 395 400
 Lys Lys Trp Leu Leu Arg Thr Ala Leu Tyr Gly Ile Pro Leu Pro Trp
 405 410 415
 Ile Ala Ile Glu Ser Gly Trp Phe Val Ala Glu Tyr Gly Arg Gln Pro
 420 425 430
 Trp Ala Ile Gly Glu Val Leu Pro Thr Ala Val Ala Asn Ser Ser Leu
 435 440 445
 Thr Ala Gly Asp Leu Ile Phe Ser Met Leu Leu Ile Cys Gly Leu Tyr
 450 455 460
 Thr Leu Phe Leu Val Ala Glu Leu Phe Leu Met Phe Lys Phe Ala Arg
 465 470 475 480
 Leu Gly Pro Ser Ser Leu Lys Thr Gly Arg Tyr His Tyr Glu Gln Ser
 485 490 495
 Val Ala Thr Thr Gln Pro Ala Arg
 500 505

<210> 6202

<211> 385

<212> PRT

<213> *Enterobacter cloacae*

<400> 6202

Asp Arg Ser His Gln Met Ile Asp Tyr Glu Val Leu Arg Phe Ile Trp
 1 5 10 15
 Trp Leu Leu Ile Gly Val Leu Leu Ile Gly Phe Ala Val Thr Asp Gly
 20 25 30
 Phe Asp Met Gly Val Gly Met Leu Thr Arg Phe Leu Gly Arg Asn Asp
 35 40 45
 Thr Glu Arg Arg Ile Met Ile Asn Ser Ile Ala Pro His Trp Asp Gly
 50 55 60

Asn Gln Val Trp Leu Ile Thr Ala Gly Gly Ala Leu Phe Ala Ala Trp
 65 70 75 80
 Pro Met Val Tyr Ala Ala Phe Ser Gly Phe Tyr Val Ala Met Ile
 85 90 95
 Leu Val Leu Ala Ser Leu Phe Phe Arg Pro Val Gly Phe Asp Tyr Arg
 100 105 110
 Ser Lys Ile Glu Asp Thr Arg Trp Arg Asn Met Trp Asp Trp Gly Ile
 115 120 125
 Phe Ile Gly Ser Phe Val Pro Pro Leu Val Ile Gly Val Ala Phe Gly
 130 135 140
 Asn Leu Leu Gln Gly Val Pro Phe His Val Asp Glu Tyr Met Arg Leu
 145 150 155 160
 Phe Tyr Thr Gly Asn Phe Phe Gln Leu Leu Asn Pro Phe Gly Leu Leu
 165 170 175
 Ala Gly Val Val Ser Val Ala Met Ile Ile Thr Gln Gly Ala Thr Tyr
 180 185 190
 Leu Gln Met Arg Thr Val Gly Glu Leu His Leu Arg Ser Arg Ala Thr
 195 200 205
 Ala Gln Val Ala Ala Leu Val Thr Leu Val Cys Phe Ala Leu Ala Gly
 210 215 220
 Val Trp Val Val Tyr Gly Ile Asp Gly Tyr Val Val Thr Ser Ala Ile
 225 230 235 240
 Asn His Thr Ala Pro Ser Asn Pro Leu Thr Lys Glu Val Ala Arg Gln
 245 250 255
 Ala Gly Ala Trp Leu Val Asn Phe Asn Asn Thr Pro Ala Leu Trp Ala
 260 265 270
 Ile Pro Ala Leu Gly Val Leu Leu Pro Leu Leu Thr Val Leu Thr Ser
 275 280 285
 Arg Leu Glu Lys Gly Ala Leu Ala Phe Val Phe Ser Ser Leu Thr Leu
 290 295 300
 Ala Cys Ile Ile Leu Thr Ala Gly Ile Ala Met Phe Pro Phe Val Met
 305 310 315 320
 Pro Ser Ser Thr Met Met Asn Ala Ser Leu Thr Met Trp Asp Ala Thr
 325 330 335
 Ser Ser Gln Leu Thr Leu Asn Leu Met Thr Tyr Val Ala Cys Val Phe
 340 345 350
 Val Pro Ile Ile Leu Leu Tyr Thr Thr Trp Cys Tyr Trp Lys Met Phe
 355 360 365
 Gly Arg Ile Thr Lys Glu His Ile Glu Ser Asn Thr His Ser Met Tyr
 370 375 380

385

<210> 6203

<211> 101

<212> PRT

<213> *Enterobacter cloacae*

<400> 6203

Arg Lys Ala Leu Met Asn Ile Ile Ala Thr Leu Tyr Ala Val Met Asp
 1 5 10 15
 Lys Arg Pro Leu Arg Ala Leu Ser Leu Ile Met Ala Leu Leu Leu Ala
 20 25 30
 Gly Cys Ile Phe Trp Asp Pro Ser Arg Phe Ala Ala Lys Thr Ser Glu
 35 40 45
 Leu Glu Ile Trp His Gly Phe Leu Ile Met Trp Ala Val Cys Ala Gly
 50 55 60
 Val Ile His Gly Val Gly Phe Arg Pro Lys Ala Leu His Trp Gln Gly
 65 70 75 80
 Ile Phe Cys Pro Leu Ile Ala Asp Leu Val Leu Leu Ala Gly Leu Ile
 85 90 95

Phe Phe Phe Phe
100

<210> 6204
<211> 232
<212> PRT
<213> Enterobacter cloacae

<400> 6204
Ala Val Thr Asp Met Asn Ile Leu Asp Leu Phe Leu Lys Ala Ser Leu
1 5 10 15
Leu Val Lys Leu Ile Met Leu Ile Leu Ile Gly Phe Ser Ile Ala Ser
20 25 30
Trp Ala Ile Ile Ile Gln Arg Thr Arg Ile Leu Asn Ala Ala Gly Arg
35 40 45
Glu Ala Glu Ala Phe Glu Asp Lys Phe Trp Ser Gly Ile Glu Leu Ser
50 55 60
Arg Leu Tyr Gln Glu Ser Gln Gly Arg Arg Asp Asn Leu Ser Gly Ser
65 70 75 80
Glu Gln Ile Phe Tyr Ser Gly Phe Lys Glu Phe Ala Arg Leu His Arg
85 90 95
Ala Asn Ser His Ala Pro Glu Ala Val Val Glu Gly Ala Ser Arg Ala
100 105 110
Met Arg Ile Ser Met Asn Arg Glu Leu Glu Asn Leu Glu Thr His Ile
115 120 125
Pro Phe Leu Gly Thr Val Gly Ser Ile Ser Pro Tyr Ile Gly Leu Phe
130 135 140
Gly Thr Val Trp Gly Ile Met His Ala Phe Ile Ala Leu Gly Ala Val
145 150 155 160
Lys Gln Ala Thr Leu Gln Met Val Ala Pro Gly Ile Ala Glu Ala Leu
165 170 175
Ile Ala Thr Ala Ile Gly Leu Phe Ala Ala Ile Pro Ala Val Met Ala
180 185 190
Tyr Asn Arg Leu Asn Gln Arg Val Asn Lys Leu Glu Leu Asn Tyr Asp
195 200 205
Asn Phe Met Glu Glu Phe Thr Ala Ile Leu His Arg Gln Ala Phe Thr
210 215 220
Ser Thr Glu Ser Asn Lys Gly
225 230

<210> 6205
<211> 144
<212> PRT
<213> Enterobacter cloacae

<400> 6205
Thr Met Ala Arg Ser Arg Gly Arg Gly Arg Arg Glu Leu Lys Ser Glu
1 5 10 15
Ile Asn Ile Val Pro Leu Leu Asp Val Leu Leu Val Leu Leu Ile
20 25 30
Phe Met Ala Thr Ala Pro Ile Ile Thr Gln Ser Val Glu Val Asp Leu
35 40 45
Pro Asp Ala Thr Glu Ser Gln Ala Val Ser Thr Asn Asp Asp Pro Pro
50 55 60
Val Ile Ile Glu Val Ser Gly Val Gly Gln Tyr Ser Val Val Val Glu
65 70 75 80
Lys Asp Arg Met Asp Gln Leu Pro Pro Glu Gln Val Ile Ala Glu Ala
85 90 95
Gln Arg Arg Leu Glu Ser Asn Pro Lys Thr Val Phe Leu Ile Gly Gly
100 105 110
Ala Lys Asp Val Pro Tyr Asp Glu Ile Ile Lys Ala Leu Asn Leu Leu

115 120 125
His Ser Ala Gly Val Lys Ser Val Gly Leu Met Thr Gln Pro Ile
130 135 140

<210> 6206
<211> 301
<212> PRT
<213> Enterobacter cloacae

<400> 6206
Leu Thr Gln Tyr His Val Ile Arg Asp Pro Arg Glu His Ile Leu Asn
1 5 10 15
Arg Leu Pro Ser Ser Ala Ser Ala Leu Ala Cys Thr Ala His Ala Leu
20 25 30
Asn Leu Ile Glu Lys Arg Thr Leu Asp His Glu Glu Met Lys Gln Leu
35 40 45
Asn Arg Glu Val Ile Asp Tyr Phe Lys Glu His Val Asn Pro Gly Phe
50 55 60
Leu Glu Tyr Arg Lys Ser Val Thr Ala Gly Gly Asp Tyr Gly Ala Val
65 70 75 80
Glu Trp Gln Ala Gly Ser Leu Asn Thr Leu Val Asp Thr Gln Gly Gln
85 90 95
Glu Phe Ile Asp Cys Leu Gly Gly Phe Gly Ile Phe Asn Val Gly His
100 105 110
Arg Asn Pro Val Val Val Ser Ala Val Gln Asn Gln Leu Ala Lys Gln
115 120 125
Pro Leu His Ser Gln Glu Leu Leu Asp Pro Leu Arg Ala Met Leu Ala
130 135 140
Lys Thr Leu Ala Ala Leu Thr Pro Gly Lys Leu Lys Tyr Ser Phe Phe
145 150 155 160
Ser Asn Ser Gly Thr Glu Ser Val Glu Ala Ile Lys Leu Ala Lys
165 170 175
Ala Tyr Gln Ser Pro Arg Gly Lys Phe Thr Phe Ile Ala Thr Ser Gly
180 185 190
Ala Phe His Gly Lys Ser Leu Gly Ala Leu Ser Ala Thr Ala Lys Ser
195 200 205
Thr Phe Arg Lys Pro Phe Met Pro Leu Leu Pro Gly Phe Arg His Val
210 215 220
Pro Phe Gly Asp Ile Asn Ala Met Arg Thr Met Leu Gly Glu Cys Arg
225 230 235 240
Lys Thr Gly Asp Asp Val Ala Ala Val Ile Leu Glu Pro Ile Gln Gly
245 250 255
Glu Gly Gly Val Ile Leu Pro Pro Gln Gly Tyr Leu Pro Ala Val Arg
260 265 270
Gln Leu Cys Asp Glu Phe Gly Ala Leu Leu Ile Leu Asp Glu Val Gln
275 280 285
Thr Arg Asp Gly Ala His Arg Gln Asp Val Arg Leu
290 295 300

<210> 6207
<211> 192
<212> PRT
<213> Enterobacter cloacae

<400> 6207
Ser Ser Thr Lys Cys Lys Pro Gly Met Gly Arg Thr Gly Lys Met Phe
1 5 10 15
Ala Cys Glu His Glu Asn Val Gln Pro Asp Ile Leu Cys Leu Ala Lys
20 25 30
Ala Leu Gly Gly Gly Val Met Pro Ile Gly Ala Thr Val Ala Thr Glu
35 40 45

Glu Val Phe Ser Val Leu Phe Asp Asn Pro Phe Leu His Thr Thr Thr
 50 55 60
 Phe Gly Gly Asn Pro Leu Ala Cys Ala Ala Ala Leu Ala Thr Ile Asn
 65 70 75 80
 Val Leu Leu Glu Gln Asn Leu Pro Ala Gln Ala Glu Gln Lys Gly Asp
 85 90 95
 Met Leu Leu Asp Gly Phe Arg Gln Leu Gly Arg Glu Tyr Pro Asp Leu
 100 105 110
 Val Gln Asp Ala Arg Gly Lys Gly Met Leu Met Ala Ile Glu Phe Val
 115 120 125
 Asp Asn Glu Thr Gly Tyr Ser Phe Ala Ser Glu Met Phe Arg Gln Arg
 130 135 140
 Val Leu Val Ala Gly Thr Leu Asn Asn Ser Lys Thr Ile Arg Ile Glu
 145 150 155 160
 Pro Pro Leu Thr Leu Thr Ile Glu Gln Cys Glu Gln Val Leu Lys Ala
 165 170 175
 Ala Arg Lys Ala Leu Ala Ala Leu Arg Val Ser Val Glu Glu Ala
 180 185 190

<210> 6208
 <211> 202
 <212> PRT
 <213> Enterobacter cloacae

<400> 6208
 Pro Met Thr Asp Lys Val Asn Ile Met Thr Asp Ala Gly Ala Asp Val
 1 5 10 15
 Ala Gln Val Ser Leu Ala Val Ala Asn Arg Ile Arg Ser Trp Arg Lys
 20 25 30
 Glu Lys Lys Leu Ser Leu Asp Glu Leu Ser Arg Arg Ala Ser Val Ser
 35 40 45
 Lys Gly Met Leu Val Glu Ile Glu Lys Gly Ala Ala Asn Pro Ser Ile
 50 55 60
 Ala Ile Leu Cys Lys Leu Ala Ala Ala Leu Gly Val Ser Val Ala Asp
 65 70 75 80
 Ile Val Asn Val Ser Ser Glu Pro Gln Ile His Ile Ile Arg Glu Glu
 85 90 95
 Ala Ile Pro Val Leu Trp Gln Gly Ala Gln Gly Gly Tyr Ala Arg Leu
 100 105 110
 Leu Ala Gly Thr Ala Gly Pro Asp Met Ile Glu Leu Trp Gln Trp Glu
 115 120 125
 Met His Pro Gly Glu Thr Phe Thr Ser Pro Gly His Pro Ala Gly Thr
 130 135 140
 Phe Glu Leu Leu His Val Asn Glu Gly Met Leu Thr Leu Thr Val Asp
 145 150 155 160
 Glu Thr Val Thr Gln Val Ala Ala Gly Ala Ser Ala Val Ala Lys Thr
 165 170 175
 Glu Ala Ala His Gly Tyr Ala Asn Glu Ser Asp Thr Val Leu Arg Phe
 180 185 190
 Thr Met Thr Val Ala Glu Phe His Arg
 195 200

<210> 6209
 <211> 138
 <212> PRT
 <213> Enterobacter cloacae

<400> 6209
 Ile Leu Asn Ser Ser Glu Gln Thr Val Asn Leu Gly Gln Tyr Arg Thr
 1 5 10 15
 Ala Lys Phe Thr Lys Val Gly Asp Thr Thr Ser Asn Ile Pro Phe Thr

20 25 30
 Ile Glu Leu Asn Asp Cys Asp Pro Ala Val Ala Lys Thr Ala Ala Val
 35 40 45
 Ala Phe Thr Gly Gln Ile Asp Ala Thr Asp Lys Thr Leu Leu Ala Val
 50 55 60
 Ser Ser Gly Asn Asn Asp Asn Ser Ala Lys Gly Val Gly Ile Glu Ile
 65 70 75 80
 Leu Asp Ser Lys Ser Ser Thr Leu Thr Pro Asp Gly Ala Thr Phe Ser
 85 90 95
 Ala Ala Gln Asn Leu Ile Glu Gly Thr Asn Thr Leu Asn Phe Thr Ala
 100 105 110
 Arg Tyr Lys Ala Thr Ala Ala Thr Thr Glu Pro Gly Gln Ala Asn Ala
 115 120 125
 Asp Ala Thr Phe Val Met Lys Tyr Glu
 130 135

<210> 6210

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 6210

Cys Leu Ser Thr Gly Met Trp Leu Ala Ser Gly Lys Arg Ser Phe Asp
 1 5 10 15
 Arg Leu Tyr Arg Glu Arg Arg Met Thr Arg Thr Gly Ile Leu Leu Cys
 20 25 30
 Ala Leu Ala Ile Ala Pro Ala Val Asn Ala His Thr Val Val Ile Asp
 35 40 45
 Gly Gly Lys Val His Leu Arg Gly Glu Leu Val Asn Gly Gly Cys Ala
 50 55 60
 Val Ala Pro Asp Ser Gln Asn Met Arg Val Asp Met Gly Gln Tyr Arg
 65 70 75 80
 Thr Asn Ala Phe Ser Gly Val Gly Ser Phe Ser Thr Val Asn Val Pro
 85 90 95
 Phe Thr Val Arg Leu Leu Asp Cys Ser Val Asp Val Ser Arg Thr Val
 100 105 110
 Gly Ile Gln Phe Gln Gly Val Thr Pro Ala Glu Asp Pro Gln Val Phe
 115 120 125
 Leu Ala Thr Ser Arg Pro Gly Glu Asn Ala Val Ser Ser Gly Val Gly
 130 135 140
 Leu Ala Leu Phe Asp Glu Gln Gln Arg Gln Ile Ile Pro Asn Ala Thr
 145 150 155 160
 Ala Val Ser Trp Leu Pro Ile Asn Thr Arg Glu Leu Val Phe His Phe
 165 170 175
 Ser Ala Arg Tyr Arg Ala Ile Ser Glu His Leu Val Pro Gly Thr Ile
 180 185 190
 Gln Ser Asn Val Trp Phe Thr Leu Ile Tyr Pro
 195 200

<210> 6211

<211> 862

<212> PRT

<213> Enterobacter cloacae

<400> 6211

Arg Gln Pro Val Ser Arg Asp Arg Ala Met Asn Thr Gln Trp Arg Tyr
 1 5 10 15
 Cys Pro Val Ala Leu Ala Leu Met Ala Thr Leu Trp Pro Leu Ala Gly
 20 25 30
 Trp Gly Glu Ser Tyr Phe Asn Pro Ala Phe Leu Ser Asp Asp Thr Ala
 35 40 45

Asn Val Ala Asp Leu Ser Arg Phe Glu Lys Gly His Gln Gln Ala Pro
 50 55 60
 Gly Val Tyr Arg Val Asp Ile Trp Arg Asn Asp Glu Phe Ile Gly Thr
 65 70 75 80
 Gln Asp Val Arg Phe Glu Gln Ala Asp Asn Thr Pro Pro Val Ala Gly
 85 90 95
 Gly Leu Ser Pro Cys Ile Thr Arg Ala Met Leu Asp Arg Phe Gly Val
 100 105 110
 Asn Ile Ala Ala Phe Pro Glu Leu Ser Asn Val Gln Gly Asp Thr Cys
 115 120 125
 Val Pro Leu Thr Thr Ala Ile Pro Gly Ser Glu Ala Ala Phe Asn Phe
 130 135 140
 Ala Ser Leu Arg Leu Asn Val Ser Leu Pro Gln Val Ala Met Gln Asn
 145 150 155 160
 Ser Ala Arg Gly Tyr Ile Pro Pro Glu Gln Trp Asp Glu Gly Ile Pro
 165 170 175
 Ala Ala Leu Leu Asn Tyr Ser Phe Thr Gly Asn Arg Gly Ser Asp Asp
 180 185 190
 Asp Ser Tyr Tyr Leu Asn Leu Gln Ser Gly Leu Asn Tyr Gly Ala Trp
 195 200 205
 Arg Leu Arg Asn Asn Gly Ala Trp Arg Tyr Thr Glu Ser Asn Gly Gln
 210 215 220
 Arg His Ser Ser Trp Gln Asn Ile Gly Thr Trp Ala Gln Arg Thr Ile
 225 230 235 240
 Ile Pro Leu Lys Ser Glu Leu Val Leu Gly Asp Ser Asn Thr Gly Asn
 245 250 255
 Asp Val Phe Asp Ser Val Gly Phe Arg Gly Gly Arg Leu Tyr Ser Ser
 260 265 270
 Asp Ser Met Tyr Pro Asp Ser Leu Gln Gly Tyr Ala Pro Thr Val Arg
 275 280 285
 Gly Ile Ala Arg Thr Pro Ala Lys Val Val Ile Arg Gln Asn Gly Tyr
 290 295 300
 Val Ile Tyr Gln Ser Tyr Val Gln Pro Gly Ala Phe Ala Ile Thr Asp
 305 310 315 320
 Leu Asn Pro Thr Ser Ser Ser Gly Asp Leu Glu Val Thr Val Glu Glu
 325 330 335
 Lys Asp Gly Ser Gln Gln Arg Tyr Thr Val Pro Tyr Ser Thr Val Pro
 340 345 350
 Leu Leu Gln Arg Glu Gly Arg Trp Lys Tyr Asp Leu Val Ala Gly Asp
 355 360 365
 Tyr Arg Ser Gly Asn Ser Glu Gln Asp Thr Pro Phe Phe Thr Gln Gly
 370 375 380
 Thr Met Ile Ala Gly Leu Ala Asp Gly Tyr Thr Leu Tyr Gly Gly Thr
 385 390 395 400
 Gln Leu Ala Ser Arg Tyr Thr Ala Ile Ala Ile Gly Ala Gly Lys Asn
 405 410 415
 Leu Gly Asp Trp Gly Ala Val Ser Leu Asp Leu Thr His Ala Arg Ser
 420 425 430
 Gln Leu Ala Asp Asp Ser Arg His Glu Gly Gln Ser Leu Arg Phe Leu
 435 440 445
 Tyr Ala Lys Ser Leu Asn Gly Phe Gly Thr Asn Phe Gln Leu Leu Gly
 450 455 460
 Tyr Arg Tyr Ser Thr Lys Gly Phe Tyr Thr Leu Asp Asp Val Ala Trp
 465 470 475 480
 Arg Thr Met Glu Gly Tyr Gln Tyr Gly Asp Asp Gln Asp Asp Asp Gly
 485 490 495
 Val Pro Asp Val Gln Ser Tyr His Asn Leu Thr Leu Asn Lys Lys Gly
 500 505 510
 Arg Phe Gln Leu Asn Ile Ser Gln Ser Leu Gly Asp Tyr Gly Ser Val
 515 520 525
 Tyr Val Ser Gly Ser Gln Gln Asn Tyr Trp Gly Thr Ser Glu Ser Asn

530 535 540
 Val Trp Tyr Gln Leu Gly Tyr Ala Gly Gly Val Lys Gly Val Ser Tyr
 545 550 555 560
 Ala Leu Ser Trp Ser Trp Asn Lys Ala Val Gly Ile Asp Gly Thr Asp
 565 570 575
 Arg Ile Ala Ser Phe Asn Val Ser Val Pro Phe Ser Leu Phe Thr Arg
 580 585 590
 His Gly Tyr Arg Arg Asp Asn Ala Ile Asp Arg Ala Tyr Ala Thr Ala
 595 600 605
 Ser Ala Ser Arg Asn Ser Asp Gly Asp Thr Ser Trp Gln Thr Gly Ile
 610 615 620
 Ser Gly Thr Leu Leu Lys Asp Arg Asn Leu Asn Tyr Ser Val Thr Gln
 625 630 635 640
 Gly His Thr Ser Asn Asn Gly Ala Ser Gly Ser Ala Ser Ala Asn Trp
 645 650 655
 Gln Ala Thr Tyr Gly Thr Leu Gly Val Gly Tyr Asn Tyr Thr Arg Asp
 660 665 670
 Gln His Asp Leu Asn Trp Gln Leu Ser Gly Gly Val Val Gly His Ser
 675 680 685
 Asp Gly Ile Thr Phe Ser Gln Pro Leu Gly Asp Thr Asn Val Leu Ile
 690 695 700
 Lys Ala Pro Gly Ala Ser Gly Val Ser Val Glu Asn Gln Thr Gly Val
 705 710 715 720
 Lys Thr Asp Trp Arg Gly Tyr Ala Val Met Pro Tyr Ala Thr Val Tyr
 725 730 735
 Arg Tyr Asn Arg Val Ala Leu Asp Thr Asn Thr Met Ser Asn Asn Thr
 740 745 750
 Asp Ile Glu Asn Asn Val Ser Ser Val Val Pro Thr Asn Gly Ala Leu
 755 760 765
 Val Arg Ala Ser Phe Asp Thr Arg Ile Gly Val Arg Ala Leu Leu Thr
 770 775 780
 Val Lys Arg Asp Asn Gln Pro Val Pro Phe Gly Ala Val Val Arg Glu
 785 790 795 800
 Thr Gln Ser Gly Val Thr Ser Met Val Gly Asp Asp Gly Gln Ile Tyr
 805 810 815
 Leu Ser Gly Leu Pro Leu Ser Gly Glu Leu Leu Ile Gln Trp Gly Asp
 820 825 830
 Gly Lys Gln Ser Gln Cys Arg Ala Pro Tyr Ser Leu Pro Glu Gln Ser
 835 840 845
 Leu Gln Gln Ala Ile Thr Leu Lys Gly Ile Arg Cys Glu
 850 855 860

<210> 6212

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6212

Phe Ile Pro Asp Ala Cys Glu Leu Ile Ile Lys Gly Thr Val Val Met
 1 5 10 15
 Asn Thr Leu Ile Lys Pro Gly Leu Phe Leu Ser Phe Ile Leu Met Met
 20 25 30
 Val Ser Ala Ser Thr Asn Ala Ser Gly Gly Ile Ala Leu Gly Ala Thr
 35 40 45
 Arg Val Ile Tyr Pro Ala Asp Ala Lys Gln Thr Ser Leu Ala Ile Thr
 50 55 60
 Asn Ser Asn Lys Gln Glu Arg Tyr Leu Ile Asn Ala Trp Ile Glu Asn
 65 70 75 80
 Ala Asn Gly Gln Lys Glu Lys Thr Phe Ala Val Thr Pro Pro Leu Phe
 85 90 95
 Val Ser Glu Pro Ala Ser Glu Asn Thr Leu Arg Ile Ile Tyr Ala Gly

100 105 110
 Pro Ala Leu Pro Ala Asp Arg Glu Ser Leu Phe Tyr Met Asn Val Lys
 115 120 125
 Ala Ile Pro Ser Val Ser Lys Lys His Gln Asp Gly Asn Asn Val Leu
 130 135 140
 Gln Leu Ala Ile Leu Ser Arg Ile Lys Leu Phe Val Arg Pro Ala Asn
 145 150 155 160
 Leu Ala Met Pro Pro Glu Glu Ala Leu Ser Gln Leu Arg Phe Glu Arg
 165 170 175
 Val Gly Asn His Leu Lys Val Ser Asn Ala Ser Pro Tyr Tyr Val Thr
 180 185 190
 Leu Val Asn Leu Lys Leu Gly Gly Gln Thr Leu Asp Asn Leu Met Val
 195 200 205
 Ala Pro Lys Ser Ser Ala Gln Gln Val Leu Pro Ala Ala Thr Ser Gly
 210 215 220
 Thr Leu Ser Trp Gln Ser Val Asn Asp Tyr Gly Ala Ile Thr Pro Ala
 225 230 235 240
 Arg Ser Val Ser Leu
 245

<210> 6213
 <211> 368
 <212> PRT
 <213> Enterobacter cloacae

<400> 6213
 Phe Ser Gly Glu Thr Gly Ser Ser Pro Ser Val Val Arg Pro Thr Ala
 1 5 10 15
 Cys Gln Asn Arg Ala Cys Asn Arg Arg Ser His Leu Arg Gly Ser Ala
 20 25 30
 Val Asn Lys Ile His Tyr Leu Gly Leu Leu Ala Phe Leu Pro
 35 40 45
 Leu Ser Gln Ala Phe Ala Thr Val Cys Val Asn Glu Asn Gly Val Pro
 50 55 60
 Thr Glu Val Tyr Tyr Asp Leu Thr Asp Lys Phe Asn Ser Ser Asn Asn
 65 70 75 80
 Gln Val Gly Gln Ile Val Thr Leu Ser Glu Lys Ser Gln Trp Val Gly
 85 90 95
 Val Asn Ala Val Cys Pro Lys Gly Thr Ser Gly Asn Thr Thr Lys Arg
 100 105 110
 Ser Tyr Val Thr Asp Tyr Pro Val Thr Gly Thr Ser Asp Gly Tyr Gln
 115 120 125
 Tyr Leu Lys Leu Asn Asp Tyr Leu Asp Gly Ala Met Lys Ile Thr Asp
 130 135 140
 Ser Tyr Ala Gly Thr Phe Tyr Pro Pro Arg Lys Tyr Ile Gln Met Gly
 145 150 155 160
 Ser His Pro Asn Val Ser Lys Asn Lys Pro Phe Gly Val Gln Asp Ser
 165 170 175
 Ser Leu Val Phe Arg Leu Lys Val Thr Arg Arg Phe Ile Asn Met Val
 180 185 190
 Val Ile Pro Arg Ala Thr Met Phe Arg Val Tyr Val Thr Thr Ser
 195 200 205
 Ser Asp Pro Leu Thr Thr Pro Val Tyr Thr Ile Ser Tyr Ser Gly Thr
 210 215 220
 Ile Gln Val Pro Gln Ser Cys Glu Ile Asn Ala Gly Asn Val Val Glu
 225 230 235 240
 Phe Asp Phe Gly Asp Ile Gly Ala Ser Leu Phe Ser Lys Ala Gly Ile
 245 250 255
 Gly Asn Lys Pro Glu Gly Ile Ser Ala Gln Ser Lys Thr Ile Gly Ile
 260 265 270
 Lys Cys Thr Asn Val Glu Ala Asn Ala Met Leu Thr Met Arg Val Glu

275 280 285
 Ala Glu Lys Val Ser Gly Ser Thr Leu Val Ser Asp Asn Ala Asp Val
 290 295 300
 Gly Phe Val Ile Ala Asn Ser Asn Gly Val Pro Leu Thr Pro Asn Asn
 305 310 315 320
 Leu Thr Ser Lys Ile Pro Phe Arg Leu Asp Asp Ser Ala Gln Ala Gln
 325 330 335
 Val Gly Ile Arg Ala Trp Pro Val Ser Val Thr Gly Lys Lys Pro Ala
 340 345 350
 Glu Gly Arg Phe Thr Ser Arg Gly Tyr Leu Arg Val Asp Tyr Asp
 355 360 365

<210> 6214

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 6214

Thr Tyr Phe Leu Phe Pro Asn Met Arg Gly Lys Gly Tyr Leu His Phe
 1 5 10 15
 Lys Gly Ile Asp Met Lys Leu Ser Asn Ile Ala Ser Thr Val Ile Ala
 20 25 30
 Thr Leu Ala Leu Val Ala Gly Ala Ala His Ala Glu Asp Pro Val Ala
 35 40 45
 Pro Val Ser Val Asn Gly Gly Thr Val His Phe Lys Gly Glu Leu Val
 50 55 60
 Asn Ala Ala Cys Ser Val Asn Thr Glu Leu Phe Arg Ala Asp Gly
 65 70 75 80

<210> 6215

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 6215

Pro Ser Arg Cys Phe Ala Leu Cys Ser Pro Ala His Ala Glu Met Ala
 1 5 10 15
 Leu Gly Glu Ile Asn Ile Gln Leu Tyr Gly Asn Ile Val Asp Phe Thr
 20 25 30
 Cys Val Ala Glu Gly Asp Asp Ser Asn Lys Thr Val Thr Ile Gly Thr
 35 40 45
 Trp Pro Thr Lys Gln Leu Arg Thr Thr Gly Ser Arg Thr Gln Pro Val
 50 55 60
 Leu Phe Thr Leu Lys Leu Thr Gly Cys Pro Pro Gly Ala Ala Ser Val
 65 70 75 80
 Thr Phe Thr Gly Lys Met Asp Gly His Asp Asn Ser Leu Leu Ala Leu
 85 90 95
 Asn Asp Ala Ser Ala Ala Ser Asn Val Ser Val Glu Ile Leu Asp Arg
 100 105 110
 Asp Lys Thr Arg Leu Ala Leu Gln Ala Ser Gln Thr Val Ala Val
 115 120 125
 Asp Ala Gln Gly Asn Ala Glu Leu Ser Phe Tyr Ala Asn Tyr Ile Ala
 130 135 140
 Thr Ala Asp Asn Pro Gln Pro Gly Arg Ala Asp Ala Asp Ala Thr Phe
 145 150 155 160
 Met Ile Asn Tyr Asn
 165

<210> 6216

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6216

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Arg Tyr Leu Arg Ile Phe Pro Arg Leu Ile Pro Leu Phe Ser Asp Leu
1      5      10      15
Asn Gln Leu Leu Ser Ser Arg Leu Val Val Asn Ile Glu Thr Arg Ala
      20      25      30
Ser Pro Ile Ile Asp Leu Leu Asp Arg Leu Arg Arg His Ser Leu Leu
      35      40      45
Ala Pro Tyr Leu Thr Pro Tyr Met Phe Phe Arg Ala Asp Asp Tyr Asp
      50      55      60
Ala Arg Leu Phe Cys Lys Ala Ala Gly Pro Phe His Val Leu Ala Arg
      65      70      75      80
Gln Leu Thr Ala Leu Asp Met Gln Gln Thr Leu Met Glu Ala Pro Ala
      85      90      95
Pro Ala Gly Asn Arg Lys Glu Trp Phe Ser Arg Asp Glu Trp Pro Ile
      100      105      110
Leu Gln Ala Leu Ser Gln Gly Ser Ser Leu Arg Gln Ile Ala Gln Leu
      115      120      125
Gln Asn Arg Pro Tyr Ser Cys Ile Ile Tyr Ser Leu Ser Cys Ile Leu
      130      135      140
Ala Lys Leu Gly Leu Asn Tyr Arg His Glu Leu Leu His Leu Leu Asn
      145      150      155      160
Asn Leu Ser Asp Phe Thr Tyr
      165

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<210> 6217

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 6217

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Gln Arg Arg Ser Leu Leu Thr Lys Tyr Arg Gln Ser Pro Leu Ser Asn
1      5      10      15
Val Thr Asp Gly Ile Phe Ser Leu Met Ala Ala Lys Ile Ile Asp Gly
      20      25      30
Lys Thr Ile Ala Gln Gln Val Arg Ser Glu Val Ala Glu Lys Val Lys
      35      40      45
Ala Arg Lys Ala Ala Gly Phe Arg Ala Pro Gly Leu Ala Val Val Leu
      50      55      60
Val Gly Ser Asn Pro Ala Ser Gln Ile Tyr Val Gly Ser Lys Arg Lys
      65      70      75      80
Ala Cys Glu Glu Val Gly Phe Val Ser Arg Ser
      85      90

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<210> 6218

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 6218

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Lys Met Lys Pro Ala Ser Val Ile Ile Met Asp Glu His Pro Ile Val
1      5      10      15
Arg Met Ser Ile Glu Val Leu Leu Gln Lys Asn Lys Asn Ile Gln Val
      20      25      30
Lys Leu Lys Ser Gly Asp Ser His Glu Val Leu Asp Cys Ile Arg Asn
      35      40      45
His Pro Ile Asp Leu Val Ile Leu Asp Ile Glu Met Thr Asp Thr Asp
      50      55      60
Gly Phe Val Leu Leu Lys Arg Ile Arg Asn Leu Asn Lys Asp Ile Lys
      65      70      75      80

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Val Leu Phe Leu Ser Ser Lys Ser Glu Ala Leu Tyr Ala Gly Arg Ala
 85 90 95
 Ile Arg Ala Gly Asp Asn Gly Phe Val Ser Lys Arg Lys Asp Leu Gly
 100 105 110
 Glu Ile Tyr Asn Ala Val Glu Met Ile Leu Thr Gly Tyr Ser Phe Phe
 115 120 125
 Pro Ser Glu Thr Leu Ser Phe Ile Asn His Leu Gly Ser Arg Thr Gly
 130 135 140
 Ala Ala Val Asp Met Pro Leu Ser Asn Arg Glu Val Thr Val Leu Arg
 145 150 155 160
 Tyr Leu Ala Asn Gly Leu Ser Asn Lys Glu Ile Ala Asp Gln Leu Leu
 165 170 175
 Leu Ser Asn Lys Thr Ile Ser Ala His Lys Ser Asn Ile Phe Ser Lys
 180 185 190
 Leu Gly Val Gln Ser Ile Val Glu Leu Ile Asp Tyr Ala Lys Ala His
 195 200 205
 Glu Leu Leu
 210

<210> 6219

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6219

His Ser Met Asn Leu Gln Thr Tyr Glu Ser Thr Ser Ala Ile Thr Met
 1 5 10 15
 Ser Ala Ile Ser Asn Ala Ile Leu Asn Gly Leu Ser Pro Leu Arg Val
 20 25 30
 Thr Ile Pro Met Thr Gly Val Glu Trp Ala Asp Lys Tyr Phe Tyr Leu
 35 40 45
 Pro Glu Gly Ser Ser His Ile Ala Gly Arg Trp Lys Thr Gln Pro Val
 50 55 60
 Gln Leu Ala Met Leu Asn Met Met Thr Asn Asp Ala Ile Lys Ile Val
 65 70 75 80
 Ser Ile Arg Lys Ser Ala Arg Leu Gly Tyr Thr Lys Val Met Val Val
 85 90 95
 Ala Leu Leu Tyr Phe Ala Glu His Lys Lys Arg Ser Ser Val Ala Tyr
 100 105 110
 Gln Pro Val Asp Asp Glu Ala Glu Gly Phe Val Ser Asp Glu Ile Asp
 115 120 125
 Pro Ala Ile Cys Glu Met Pro Val Ile Gln Lys Ile Phe Pro Asp Trp
 130 135 140
 Asp Ser Ser Asn Glu Arg Asn Asn Ile Lys Arg Lys Glu Met Ser Gly
 145 150 155 160
 Ala Ile Leu Asp Phe Arg Gly Ala Asn Ser Pro Gly Asn Phe Arg Arg
 165 170 175
 Leu Thr Lys Gln Val Val Ala Gly Asp Glu Val Asp Gly Trp Pro Leu
 180 185 190
 Glu Val Ser Lys Lys Gly Lys Gly Glu Gly Ser Pro Ile Glu Leu Ala
 195 200 205
 Leu Val Arg Ile Lys Gly Ala Ser Tyr Pro Lys Ala Ile Phe Gly Ser
 210 215 220
 Thr Pro Thr Val Thr Gly Lys Ser Gln Ile Glu Met Leu Glu Asp Gly
 225 230 235 240
 Ala Asp Leu Val Phe Arg Phe Tyr Leu Pro
 245 250

<210> 6220

<211> 111

<212> PRT

<213> *Enterobacter cloacae*

<400> 6220

Gly Ala Val Met Thr Thr Glu Ser Cys Gln Pro Asp Asp Phe Phe Val
 1 5 10 15
 Gly Pro Asp Val Thr Thr Thr Thr Gly Ile Met Ala Ser Gly Val Asn
 20 25 30
 Ile Ala Lys Tyr Thr Pro Val Met Ile Asp Ala Thr Ala Gly Thr Phe
 35 40 45
 Lys Ser Trp Asp Gly Thr Pro Gly Lys Ala Val Gly Ile Thr Ala Met
 50 55 60
 Ala Val Asn Ala Ser Ala Gly Gln Val Glu Phe Ser Tyr Tyr Asn Gly
 65 70 75 80
 Gly Thr Phe Arg Ala Ser Tyr Leu Asn Trp Ser Ala Asp Ala Val Lys
 85 90 95
 Arg Lys Ser Ala Phe Ala Gly Thr Pro Val Ser Ile Gln Glu
 100 105 110

<210> 6221

<211> 180

<212> PRT

<213> *Enterobacter cloacae*

<400> 6221

Leu Asn Arg Ser Ser Pro Val Met Lys Ser Thr Ala Gly Arg Leu Lys
 1 5 10 15
 Ser Arg Arg Lys Ala Arg Ala Lys Gly Arg Arg Leu Asn Trp Leu Trp
 20 25 30
 Tyr Val Leu Arg Ala Arg His Thr Arg Lys Pro Phe Ser Ala Leu Leu
 35 40 45
 Arg Pro Leu Pro Ala Lys Ala Arg Leu Lys Cys Ser Arg Met Ala Pro
 50 55 60
 Ile Trp Ser Ser Gly Phe Ile Cys Leu Ser Ala Gln Ala Ala Ser Asn
 65 70 75 80
 Glu Leu Ala Arg Val Met Ser Ile Ile Gly Cys Glu Glu Ala Lys Gly
 85 90 95
 Arg Glu Gln Gln Ala His Ala Leu Ala Ala Ile Pro Gly Met Thr Leu
 100 105 110
 Asp Gln Ala Lys Ala Val Leu Ala Ala Ala Pro Gln Thr Ala Gln Ala
 115 120 125
 Arg Thr Glu Thr Ala Leu Asp Ala Leu Met Thr Lys Glu Ser Pro Glu
 130 135 140
 Ala Val Ala Tyr Met Pro Ala Gln His Asn His Ser Ala Asp Gly Ser
 145 150 155 160
 Ala Ala Lys Ile Ser Leu Leu Val Gln Ala Gly Lys Ser Leu Ile Glu
 165 170 175
 Glu Gln Leu
 180

<210> 6222

<211> 345

<212> PRT

<213> *Enterobacter cloacae*

<400> 6222

Met Ser Asp Ser Tyr Thr Thr Gln Glu Leu Ile Ala Ala Thr Gln Gln
 1 5 10 15
 Val Phe Lys Phe Gln Pro Leu Phe Leu Ser Leu Phe Phe Lys Glu Thr
 20 25 30
 Tyr Thr Phe Asp Thr Glu Asp Val Phe Leu Asp Lys Ile Pro Gly Glu
 35 40 45

Val Ser Met Ala Val Tyr Cys Ser Pro Leu Ile Thr Gly Lys Val Asp
 50 55 60
 Arg Thr Arg Gly Phe Lys Thr Thr His Phe Lys Pro Gly Tyr Thr Lys
 65 70 75 80
 Pro Lys His Thr Val Asn Pro His Thr Val Ile Lys Arg Ser Ala Gly
 85 90 95
 Glu His Ile Gly Gln Pro Lys Thr Pro Ala Glu Arg Arg Ala Glu Ile
 100 105 110
 Ile Met Gln Asn Leu Lys Asp Glu Glu Leu Ser Ile Gln Gln Leu Glu
 115 120 125
 Glu Tyr Gln Ala Val Gln Ala Val Leu Lys Gly Lys Tyr Thr Ile Ser
 130 135 140
 Gly Pro Asn Ile Asp Thr Thr Glu Ile Asp Met Gln Arg Ser Val Ala
 145 150 155 160
 Asn Asn Ile Val Gln Ser Gly Ser Thr Ala Trp Ser Ala Gln Asn Lys
 165 170 175
 Asp Thr Phe Asp Pro Ser Asn Asp Ile Glu Glu Tyr Ala Glu His Ala
 180 185 190
 Ser Gly Thr Ile Asn Val Met Val Leu Asp Gly Lys Ala Trp Lys Thr
 195 200 205
 Leu Lys Ser Phe Lys Leu Phe Arg Glu Ala Leu Asp Thr Arg Arg Gly
 210 215 220
 Ser Asn Ser Lys Leu Glu Leu Ala Leu Lys Asn Leu Gly Asp Val Val
 225 230 235 240
 Ser Phe Lys Gly Tyr Tyr Gly Asp Thr Ala Val Ile Val Tyr Lys Gly
 245 250 255
 Gln Tyr Ile Asp Pro Asp Thr Lys Ala Lys Thr Lys Tyr Met Pro Asp
 260 265 270
 Asn Thr Ile Ala Leu Gly Asn Leu Gln Ser Lys Gly Tyr Arg Thr Tyr
 275 280 285
 Gly Ala Val Gln Asp Glu Asp Ala Leu Arg Glu Gly Ile Thr Glu Ala
 290 295 300
 Thr Arg Tyr Pro Lys Ile Trp Thr Thr Thr Gly Asp Pro Ser Ile Thr
 305 310 315 320
 Gln Thr Met Thr Gln Ser Ala Pro Ala Met Val Leu Ala Asp Ala Asp
 325 330 335
 Ala Phe Val Ile Val Thr Leu Ala
 340 345

<210> 6223

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6223

Glu Pro Lys Gly Ser Phe Leu Tyr Pro Glu Thr Lys Met Ala Asn Lys
 1 5 10 15
 Thr Glu Leu Leu Ala Arg Ile Ser Asp Leu Ser Ala Gln Leu Gly Arg
 20 25 30
 Glu Leu Ser Thr Thr Gly Thr Asn Glu Ala Leu Gln Ala Val Ile Asp
 35 40 45
 Ser Ala Glu Ala Glu Leu Lys Leu Leu Asn Glu Asp Asp Gly Glu Thr
 50 55 60
 Leu Pro Leu Gln Pro Leu Pro Gly Gly Ser Asn Ser Gly Thr Leu Leu
 65 70 75 80
 Thr Ala Ser Ser Pro Asp Glu Asn Asp Glu Ala Asp Ala Asp Gly Ala
 85 90 95
 Ala Tyr Arg Leu Val Lys Leu Arg Ala Thr Leu His Val Val His Tyr
 100 105 110
 Val Asn Gln Lys Pro Val Arg Glu Ile Val Pro Ala Gly Gln Ser Ile
 115 120 125

Tyr Val Asp Pro Glu Glu Ala Ala Leu Leu Ile Ala Ala Asn His Val
 130 135 140
 Tyr Ala Leu
 145

<210> 6224

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 6224

Phe Leu Ile Val Ala Phe Glu Ala Ser Arg Ile Ala Asn Glu Val Ser
 1 5 10 15
 Met Ile Lys Gln Lys Thr Ile Lys Asn Ile Val Glu Leu Ser Gly Ile
 20 25 30
 Gly Leu His Ser Gly Ser Ser Ile His Met Lys Ile Met Pro Ala Thr
 35 40 45
 Ala Asn Ser Gly Ile Arg Phe Arg Arg Thr Asp Leu Asn Pro Ser Val
 50 55 60
 Asp Ile Gln Leu Arg Ala Glu Gln Val His Asp Thr Met Leu Ala Thr
 65 70 75 80
 Ser Leu Ile Asn Pro Gln Gly Ile Arg Val Ser Thr Ile Glu His Phe
 85 90 95
 Leu Ser Ala Val Ser Ser Leu Gly Ile Asp Asn Leu Leu Val Glu Leu
 100 105 110
 Asp Ala Pro Glu Leu Pro Ile Leu Asp Gly Ser Ala Arg Glu Phe Ile
 115 120 125
 Asp Ser Leu Ile Asn Ala Gly Ser Ile Glu Gln Cys Ala Leu Lys Lys
 130 135 140
 Tyr Leu Leu Ile Lys Lys Thr Val Ser Val Lys Asp Gly Asp Lys Trp
 145 150 155 160
 Ala Leu Leu His Pro Asp Ser Lys Phe Ser Val Asp Phe Thr Ile Asp
 165 170 175
 Phe Lys His Pro Leu Ile Ser Ala Asp Thr Asn Lys Leu Asn Ile Glu
 180 185 190
 Met Ser Lys Glu Lys Tyr Ile Glu Glu Ile Ala Gly Ala Arg Thr Phe
 195 200 205
 Gly Phe Val His Asp Val Glu Lys Leu Gln Lys Ile Gly Leu Val Leu
 210 215 220
 Gly Ala Gly Leu Asn Asn Ala Ile Gly Leu Asp Glu Tyr Ser Val Leu
 225 230 235 240
 Asn Pro Glu Gly Leu Arg Phe Asn Asn Glu Leu Val Arg His Lys Val
 245 250 255
 Leu Asp Ala Ile Gly Asp Leu Phe Val Ser Gly Tyr Asn Ile Ile Gly
 260 265 270
 Ala Tyr His Ala Tyr Lys Ser Gly His Ala Leu Asn Asn Lys Leu Met
 275 280 285
 Leu Ala Leu Leu Asn Asp Thr Asp Ala Trp Glu Phe Val Asn Leu His
 290 295 300
 Asp Tyr Ser Arg Gly Lys Leu Lys Val Asn Met Leu Pro Ala Ile Asn
 305 310 315 320
 Lys Glu Cys Pro Val Ser Leu Thr Ile
 325 330

<210> 6225

<211> 151

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (6)

<400> 6225

Tyr His Arg Ile Ala Xaa Gly Glu Arg Met Ser Thr Ile Gly Asp Ala
 1 5 10 15
 Ala Arg Leu Ser Gly Val Ser Ala Lys Met Ile Arg Tyr Tyr Glu Glu
 20 25 30
 Ala Gly Leu Ile Pro Ser Val Ser Arg Thr Ala Ala Gly Tyr Arg Ile
 35 40 45
 Tyr Lys Asp Val Asp Val Tyr Lys Leu His Phe Ile Arg Arg Cys Arg
 50 55 60
 Glu Leu Gly Phe Ser Leu Ser Gln Thr Gly Asp Leu Leu Ser Leu Trp
 65 70 75 80
 Gly Asn His Ser Arg Gln Ser Ala Asp Val Lys Lys Leu Val Glu Ser
 85 90 95
 His Ile Asn Asp Leu Thr Ser Lys Ile Glu Leu Gln Arg Ile Ala
 100 105 110
 Ser Thr Leu Thr Thr Leu Ser Asp Cys Cys Ala Gly Asp Lys Pro
 115 120 125
 Asp Cys Pro Ile Leu Arg Ala Leu Tyr Leu Ala Glu Thr Ser Arg Lys
 130 135 140
 Asp Lys Glu Asn Ser Pro
 145 150

<210> 6226

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6226

Leu Met Lys Phe Pro His Phe Phe Ile Gln Arg Pro Ile Phe Ala Ile
 1 5 10 15
 Val Leu Ser Leu Phe Met Leu Ile Ala Gly Ala Leu Ala Phe Gln
 20 25 30
 Leu Pro Leu Ser Glu Tyr Pro Ser Val Thr Pro Pro Thr Val Gln Val
 35 40 45
 Thr Ala Ser Tyr Pro Gly Ala Asn Pro Asn Val Ile Ala Asp Thr Val
 50 55 60
 Ala Ala Pro Leu Glu Gln Ala Ile Asn Gly Val Glu Gly Met Leu Tyr
 65 70 75 80
 Met Ser Ser Gln Thr Ser Ser Asp Gly Arg Met Val Leu Thr Ile Ser
 85 90 95
 Phe Arg Gln Gly Thr Asp Pro Asp Ile Ala Gln Ile Gln Val Gln Asn
 100 105 110
 Arg Val Ser Arg Ala Leu Pro Arg Leu Pro Ser Glu Val Gln Gln Ile
 115 120 125
 Gly Val Val Thr Glu Lys Thr Ser Pro Asp Ile Leu Met Val Val His
 130 135 140
 Leu Phe Ser Pro Asp Asn Arg Tyr Asn Pro Leu Tyr Val Ser Asn Tyr
 145 150 155 160
 Ala Met Leu Asn Val Arg Asp Glu Leu Ser Arg Leu Pro Gly Ile Ala
 165 170 175
 Ser Ile Ala Leu Trp Gly Glu Gly Glu Tyr Ala Met Arg Val Trp Leu
 180 185 190
 Asp Pro Asn Lys Ile Ala Ser Arg Gly Leu Thr Ala Ser Asp Val Thr
 195 200 205
 Ser Ala Ile Lys Glu Gln Asn Val Gln Val Ala Ala Gly Ser Val Gly
 210 215 220
 Gln Gln Pro Asn Thr Ser Ser Ser Phe Gln Val Thr Val Asn Ala Leu
 225 230 235 240
 Gly Arg Leu Thr Thr Glu Glu Phe Gly Asp Ile Ile Ile Lys Ser

400> 6227																
Gly	His	Cys	Ile	Trp	Arg	Arg	Leu	Arg	Val	Arg	Thr	Arg	Lys	Ile	Val	
1			5					10					15			
Leu	Asp	Val	Ile	Ala	Thr	Tyr	Leu	Glu	Ser	Leu	Gln	Pro	Gly	Phe		
		20					25					30				
Ile	Val	Asn	Leu	Tyr	Ala	Val	Asn	Phe	Asn	Gly	Asn	His	Cys	Leu		
		35				40					45					
His	Lys	Glu	Gln	Leu	Gln	Leu	Ser	Lys	Asp	His	Phe	Leu	Leu	Val	Arg	
	50					55				60						
Phe	Thr	Met	Leu	Asn	Ile	Ile	Pro	Gly	Tyr	Cys	Thr	Leu	Cys	Arg	Ser	
				70						75				80		
Arg	Cys	Gly	Thr	Leu	Asn	Glu	Val	Ile	Glu	Asp	Leu	Leu	Phe	Leu	Val	
				85					90					95		
Arg	Pro	Asn	Pro	Val	Leu	Pro	Phe	Gly	Lys	Ala	Met	Cys	Met	Lys	Gly	
			100					105					110			
Lys	Ala	Ala	Pro	Glu	Leu	Val	Asp	Ser	Ala	Asn	Arg	Ile	Leu	His	Pro	
		115					120					125				
Met	Lys	Arg	Thr	His	Pro	Lys	Gly	Ala	Glu	Asn	Pro	Gly	Trp	Gln	Arg	
		130				135					140					
Ile	Ser	Trp	Glu	Glu	Ala	Met	Ser	Thr	Ile	Ala	Gly	Gln	Leu	Lys	Lys	
					150					155					160	
Phe	Lys	Asn	Glu	Asn	Gly	Ala	Glu	Ser	Val	Ala	Phe	Gly	Phe	Thr	Ser	
				165					170					175		
Pro	Ser	Gly	Thr	Pro	Leu	Ser	Asp	Ala	Ile	Glu	Trp	Leu	Glu	Arg	Phe	
			180					185					190			
Val	Arg	Ile	Tyr	Gly	Ser	Pro	Asn	Thr	Ser	Tyr	Gly	Thr	Glu	Ile	Cys	
		195				200						205				
Asn	Trp	His	Lys	Asp	Val	Ala	His	Arg	Trp	Thr	Phe	Gly	Cys	Gly	Ile	
		210				215					220					
Pro	Val	Ala	Asp	Tyr	Ser	His	Ala	Glu	Leu	Ile	Ile	Leu	Trp	Gly	His	
		225				230				235					240	
Asn	Pro	Ala	Asn	Thr	Trp	Leu	Ala	Gln	Ala	Asn	Ala	Ile	Gly	Thr	Gly	
			245						250					255		
Arg	Asn	Asn	Gly	Ala	Lys	Leu	Ile	Val	Ile	Asp	Pro	Arg	Pro	Thr	Pro	
			260					265					270			
Leu	Ala	Lys	Glu	Ala	Asn	Ala	Trp	Leu	Asn	Val	Cys	Pro	Gly	Thr	Asp	
		275				280						285				
Gly	Ala	Leu	Ala	Leu	Gly	Leu	Ser	His	Leu	Leu	Val	Glu	Arg	His	Met	
		290				295					300					
Phe	Asn	Gln	Glu	Phe	Val	Arg	Asp	Trp	Thr	Asn	Gly	Pro	Leu	Leu	Ile	
				310						315					320	
Arg	Asn	Asp	Asn	Gly	Tyr	Phe	Leu	Arg	Glu	Ile	Asp	Ile	Asn	Pro	Phe	
			325							330				335		
Ala	Thr	Ser	Asn	Arg</												

355					360					365					
Ala	Ala	Leu	Glu	Ser	Asp	Val	Glu	Val	Thr	Leu	Ala	Asp	Gly	Gly	Lys
370						375				380					
Ile	Ser	Cys	His	Thr	Ala	Phe	Ser	Ser	Phe	Lys	Asn	Ile	Leu	Ala	Asn
385					390					395					400
Tyr	Ser	Pro	Glu	Asn	Val	Ser	Arg	Ile	Thr	Gly	Ile	Ser	Val	Ala	Ser
				405					410					415	
Ile	Glu	Ala	Ala	Ala	Ser	Met	Ile	Gly	Asn	Ala	Lys	Lys	Ile	Ala	Tyr
				420				425					430		
His	Ser	Trp	Ser	Gly	Val	Ala	Gln	His	Thr	Asn	Ala	Thr	Gln	Thr	Glu
435						440				445					
Arg	Ala	Ile	Ala	Thr	Leu	Tyr	Ala	Leu	Thr	Gly	Cys	Phe	Asp	Gln	Glu
450						455				460					
Gly	Cys	Asn	Arg	Ile	Tyr	Ala	Ser	His	Pro	Val	Asn	Val	Val	Asn	Ser
465					470					475				480	
Pro	Thr	Leu	Met	Pro	Lys	Thr	Gln	Trp	Glu	Lys	Ala	Leu	Gly	Leu	Glu
				485					490				495		
Glu	Arg	Pro	Ile	Gly	Pro	Pro	Ser	Gln	Gly	Trp	Val	His	Ser	Gln	Asp
				500				505					510		
Ile	Trp	His	Ser	Val	Leu	Glu	Gly	Thr	Pro	Tyr	Lys	Ile	Arg	Gly	Leu
515						520						525			
Ile	Gly	Phe	Gly	Ala	Asn	Ile	Leu	Leu	Ser	Gln	Ser	Asp	Thr	Ser	Leu
530						535					540				
Gly	Gln	Gln	Ala	Leu	Glu	Ala	Leu	Glu	Phe	Tyr	Ala	His	Val	Asp	Leu
545					550					555					560
Phe	Glu	Thr	Pro	Thr	Ser	Lys	Tyr	Ala	Asp	Ile	Leu	Leu	Pro	Val	Asn
				565					570				575		
Thr	Ala	Trp	Glu	Arg	Glu	Gly	Leu	Arg	Ala	Gly	Phe	Glu	Ser	Ser	Ala
				580				585					590		
Ala	Ala	Gln	Glu	His	Ile	Gln	Leu	Arg	Lys	Gln	Met	Val	Ser	Pro	Arg
595						600						605			
Gly	Glu	Ser	Arg	Ser	Asp	Leu	Glu	Ile	Val	Phe	Asp	Leu	Ala	Cys	Arg
610					615					620					
Leu	Gly	Met	Asn	Glu	Ala	Phe	Phe	Asp	Gly	Asn	Ile	Glu	Ser	Ala	Trp
625					630					635				640	
Asn	Tyr	Gln	Leu	Lys	Pro	Leu	Gly	Leu	Thr	Val	Glu	Met	Leu	Arg	Asn
				645					650				655		
Lys	Pro	Glu	Gly	Tyr	Asp	Ile	Pro	Leu	Glu	His	Lys	Val	Arg	Lys	Tyr
				660				665					670		
Ala	Leu	Lys	Asp	Gln	Lys	Thr	Gly	Tyr	Leu	Thr	Gly	Phe	Asn	Thr	Glu
675						680						685			
Thr	Lys	Arg	Ala	Glu	Phe	Tyr	Ser	Glu	Val	Leu	His	Arg	His	Gly	Tyr
690					695					700					
Asn	Pro	Leu	Pro	Glu	Tyr	Val	Gln	Pro	Gln	Glu	Tyr	Gln	Arg	Asn	Asp
705					710					715				720	
Pro	Asp	Phe	Pro	Leu	Met	Leu	Thr	Ser	Val	Lys	Ser	Gly	Phe	Phe	Cys
				725					730				735		
His	Ser	Gln	His	Arg	Ser	Leu	Thr	Ser	Leu	Arg	Lys	Lys	Ala	Ser	Tyr
				740				745					750		
Pro	Thr	Val	Glu	Ile	Ser	Val	Thr	Leu	Ala	Asp	Glu	Glu	Lys	Ile	Lys
755						760						765			
Thr	Gly	Asp	Trp	Val	Glu	Ile	Glu	Thr	Arg	Val	Gly	Gln	Ala	Arg	Phe
770					775					780					
Arg	Ala	Lys	Val	Glu	Glu	Lys	Leu	Ser	His	Glu	Thr	Val	Ile	Ala	Glu
785					790					795				800	
Phe	Gly	Trp	Trp	Gln	Gly	Cys	Pro	Asp	Phe	Gly	Lys	Pro	Ser	Tyr	Pro
				805					810				815		
Val	Ile	Gly	Glu	Phe	Ser	Ser	Asn	Phe	Asn	Ser	Leu	Ile	Ser	Gly	Asp
				820				825					830		
Ser	Tyr	Asp	Pro	Val	Ser	Gly	Ala	Leu	Pro	Leu	Arg	Ser	Phe	Arg	Cys
835						840						845			

Arg Ile Arg Arg Leu Asn Glu Phe Glu Leu Val Arg Arg Pro Trp Asp
 850 855 860
 Gly Arg Arg Thr Phe Gln Val Ile Ser Leu Lys Lys Glu Thr Asp Asn
 865 870 880
 Val Thr Thr Val Thr Phe Gln Ser Lys Ala Glu Gly Phe Leu Pro Asp
 885 890 895
 Tyr Glu Pro Gly Gln His Val Thr Ile Ser Cys Tyr Pro Leu Ile Asp
 900 905 910
 Ser Glu Asp Ile Val Thr Arg Ala Tyr Ser Leu Thr Gly Pro Ala Phe
 915 920 925
 Val Asp Ala Arg Lys Thr Tyr Ser Ile Ser Val Arg His Gln Thr Ala
 930 935 940
 Arg Asp Glu Asn Gly Glu Phe Val Glu Gly Ile Met Ser Ser Phe Ile
 945 950 955 960
 Asn Thr Arg Leu Gln Val Gly Ser Phe Val Glu Ile Thr Pro Pro Gly
 965 970 975
 Gly Asn Phe Ile Val Pro Leu Asn Ala Met Gln Pro Val Val Ile Phe
 980 985 990
 Ala Gly Gly Ile Gly Ile Thr Pro Phe Ile Cys Tyr Leu Glu Ser Ile
 995 1000 1005
 Asp Pro Asp Glu Thr Gly Pro Glu Ile Trp Leu Phe Tyr Ala Asn Gln
 1010 1015 1020
 Asn Ser Lys Gln His Ala Phe Lys Lys Arg Ile Gln Glu Leu Ser Ser
 1025 1030 1035 1040
 Leu Ile Ser Arg Leu Lys Val Ile Asn Val Tyr Asn Gln Pro Leu Asp
 1045 1050 1055
 Cys Asp Val Leu Gly Glu Asp Tyr Asp Arg Ala Gly Phe Ala Gly Ala
 1060 1065 1070
 Gly Asp Val Asp Ala His Leu Ile Glu Asn Asn Ala Arg Tyr Tyr Met
 1075 1080 1085
 Cys Gly Pro Met Pro Met Met Glu Ala Ile Ser Lys Gly Leu Gln Gln
 1090 1095 1100
 Arg Gly Val Pro Ala Phe Ala Ile Phe Tyr Glu Ile Phe Arg Ser Pro
 1105 1110 1115 1120
 Ala Lys Ile Asn Asp Asp Pro Ser Leu Arg His Lys Val Thr Phe Ala
 1125 1130 1135
 Lys Ser Gly Arg Glu Glu Ile Trp Thr Thr Asp Lys Gly Thr Leu Leu
 1140 1145 1150
 Asn Phe Gly Glu Lys Leu Gly Ile Ser Met Pro Ser Gly Cys Arg Val
 1155 1160 1165
 Gly Gln Cys Glu Ser Cys Ser Thr Lys Val Ile Thr Gly Ser Val Gln
 1170 1175 1180
 His Leu Asn Asn Val Glu Pro Ser Asp Glu Gly Ala Cys Leu Thr Cys
 1185 1190 1195 1200
 Gln Cys Ile Pro Ala Gly Asp Ile Thr Ile Asp Ala
 1205 1210

<210> 6228

<211> 433

<212> FRT

<213> *Enterobacter cloacae*

<400> 6228

Glu Ile Ala Thr Gly Ala Asn Phe Gly Leu Ser Glu Gly Phe Trp Gly
 1 5 10 15
 Thr Lys Arg Val Ile Met Met Lys Met Ser Ile Arg Thr Met Val Met
 20 25 30
 Ala Val Ala Val Ala Ile Thr Ala Ser Thr Ser Val Ala Val Ala Lys
 35 40 45
 Glu Asp Gly Ser Gly Lys Thr Ser Thr Ala Gln Ile Pro Ala Gly Pro
 50 55 60

Gln Val Pro Val Ala Glu Val Ile Ser Arg Asn Ile Ile Pro Ser Ala
 65 70 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995

<210> 6229

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 6229

Thr Val Arg Cys Ser Gly Arg Asp Pro Pro Ser Ser Glu Arg Val Glu
 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995

Cys Trp Pro Val Arg Leu Leu Cys Arg Val Leu Asp Val His Pro Ser
 50 55 60
 Gly Phe Tyr Phe Trp Leu Gln Gln Pro His Ser Gln Arg His Gln Thr
 65 70 75 80
 Asp Gln Met Leu Thr Gly Gln Ile Lys Gln Phe Trp Leu Glu Ser Gly
 85 90 95
 Cys Val Tyr Gly Tyr Arg Lys Ile Asn Leu Asp Leu Arg Asp Thr Gly
 100 105 110
 Gln Gln Cys Gly Val Asn Arg Val Trp Arg Leu Met Lys Arg Ala Gly
 115 120 125
 Ile Lys Ala Gln Val Gly Tyr Arg Thr Pro Arg Ala Arg Lys Gly Glu
 130 135 140
 Ser Ser Ile Val Thr Pro Asn Met Leu Gln Arg Gln Phe Asn Pro Asp
 145 150 155 160
 Ser Pro Asp Glu Arg Trp Val Thr Asp Ile Thr Tyr Ile Arg Thr His
 165 170 175
 Glu Cys Trp Leu Tyr Leu
 180

<210> 6230

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 6230

Arg Glu Val Pro Met Ser Gly Lys Arg Tyr Pro Glu Glu Phe Lys Ile
 1 5 10 15
 Glu Ala Val Lys Gln Val Val Asp Arg Gly His Ser Val Ser Ser Val
 20 25 30
 Ala Thr Arg Leu Asp Ile Thr Thr His Ser Leu Tyr Ala Trp Ile Lys
 35 40 45
 Lys Tyr Gly Pro Asp Ser Ser Thr His Asn Glu Gln Ser Asp Ala Gln
 50 55 60
 Ala Glu Ile Arg Arg Leu Gln Lys Glu Leu Lys Arg Val Thr Asp Glu
 65 70 75 80
 Arg Asp Ile Leu Lys Lys Ala Ala Ala Tyr Phe Ala Lys Leu Ser Asp
 85 90 95

<210> 6231

<211> 794

<212> PRT

<213> Enterobacter cloacae

<400> 6231

Arg Gln Arg Leu Trp Glu Met Lys Lys Asn Ile Glu Asn Phe Glu Thr
 1 5 10 15
 Phe Ile Ile Glu Gln Lys Ala Trp Phe Glu Glu Asn Leu Ala Ala Asp
 20 25 30
 Phe Ala Glu Ser Trp Asp Ser Phe Val Trp Ile Cys Gly Ile Lys Gly
 35 40 45
 Ser Gly Trp Leu Arg Gly Asn Gly Ala Asn Leu Leu Arg Phe Asp Glu
 50 55 60
 Val Asn Arg Leu Lys Gly Ile Asp Asp Arg His Thr Val Ser Glu Pro
 65 70 75 80
 Tyr Gln Leu Phe Met Lys Ala Met Leu Val Leu Val Tyr Arg Gly Arg
 85 90 95
 Asn Arg Ser Ile Ser Ser Ala Val Ala Val Ala Thr Leu Ile Ile Leu
 100 105 110
 Lys Arg Trp Tyr Cys Ala Leu Ile Lys Leu Thr Gly Gln Thr His Pro

Ile	Tyr	115	Leu	Thr	Thr	Asp	Val	120	Val	Arg	Ser	Ala	Met	125	Asp	Thr	Leu	Ser
Ala	Ala	130	Ser	Arg	Pro	Gly	Asp	135	Thr	Asn	Leu	Ala	Asn	140	Tyr	Lys	Gly	Arg
145	Cys	Val	Lys	Ile	Gln	Lys	Leu	150	Val	Asn	His	His	Ala	155	Phe	Thr	Leu	Val
Thr	Leu	Gln	Tyr	Val	Ser	Asp	Asp	165	Cys	Tyr	Thr	Asn	Gln	170	Thr	Asn	Leu	Val
Thr	Arg	Lys	Ala	Arg	Glu	Thr	Ile	180	Ser	Leu	Lys	Glu	Lys	185	Asp	Lys	Leu	Val
Asp	Asp	Thr	Ser	Thr	Asp	Gly	Glu	195	Asp	Thr	Leu	Ile	Thr	200	Ile	Lys	Gly	Val
Phe	Leu	Asn	Ile	Val	Ser	Lys	Leu	210	Gln	Arg	Val	Glu	Ser	215	Thr	Gly	Thr	Glu
225	Lys	Ile	Ala	Leu	Asn	Cys	Leu	230	Leu	Leu	Leu	Ile	Val	235	Thr	Gly	Phe	Arg
Ser	Val	Glu	Ala	Phe	Asn	Leu	Arg	245	Gln	Asp	Ala	Leu	Val	250	Lys	Arg	His	Val
Ile	Asp	Asn	Ser	Asp	Leu	Ser	Lys	255	Arg	Leu	Arg	Asn	Lys	260	Gly	Leu	Pro	Val
Asp	Tyr	Phe	Leu	Gly	Ile	Arg	Tyr	265	Val	Gly	Val	Lys	Gly	270	Ala	Gly	Glu	Val
Arg	Thr	His	Trp	Val	Glu	Pro	Leu	275	Ala	Val	Pro	Leu	Val	280	Glu	Asn	Ile	Val
305	Phe	Lys	Ser	Val	Lys	Leu	Leu	285	Ala	Glu	Phe	Arg	Lys	290	His	Ile	Glu	Val
Tyr	Leu	Arg	Ser	Lys	Lys	Phe	Ser	295	Asp	Tyr	Leu	Pro	Lys	300	Pro	Ile	Ser	Val
Asp	Ile	Thr	Gly	Glu	Leu	Val	Glu	305	Leu	Asp	Asp	Ile	Val	310	Lys	Tyr	Met	Val
Val	Gln	Ser	Ser	Ser	Glu	Leu	Arg	315	Gly	Arg	Ala	Gly	Leu	320	Arg	Asp	Lys	Val
Ala	Ser	Lys	Ala	Leu	Glu	Lys	Arg	325	Gly	Phe	Ile	Pro	Ala	330	Lys	Val	Ile	Val
385	Leu	Lys	Ser	Gly	Asn	Glu	Lys	335	Glu	Tyr	Phe	Thr	Lys	340	Ser	Asp	Leu	Val
Ser	Asn	Phe	Leu	Lys	Ser	Glu	Phe	345	Gly	Asp	Asn	Ser	Ala	350	Asn	Thr	Pro	Val
Cys	Thr	His	Ala	Trp	Ala	Glu	Asn	355	Gly	Lys	Arg	Tyr	Glu	360	Ile	Lys	Tyr	Val
Glu	Glu	Leu	Leu	Phe	Leu	Phe	Pro	365	Lys	Gly	Ser	Leu	Thr	370	Leu	Lys	Arg	Val
Val	Leu	Gln	Leu	Lys	Ala	Thr	Pro	375	Leu	Pro	Leu	Asn	Asn	380	Asn	Gly	Leu	Val
465	Asn	Lys	Phe	Leu	Gly	Asn	Val	385	Ala	Gly	Tyr	Val	Ser	390	Phe	Ser	Lys	Val
Tyr	Ser	Leu	Leu	Glu	Asp	Asp	Gly	395	Arg	Pro	Thr	Gln	Leu	400	Arg	Thr	His	Val
Ile	Pro	Arg	His	Asn	Ile	Asn	Thr	405	Phe	Leu	Ala	Ile	Ala	410	Ile	Gly	Ser	Val
Asp	His	Leu	Gln	Ala	Met	Leu	Met	415	Gly	Arg	Val	Asp	Ile	420	Thr	Gln	Asn	Val
Gln	His	Tyr	Gln	His	Leu	Ala	Leu	425	Lys	Glu	Arg	Arg	Lys	430	Ala	Ala	Ser	Val
545	Leu	Thr	Pro	Leu	Val	Pro	Thr	435	Pro	Glu	Gln	Ser	Ala	440	Phe	Thr	Ala	Val
Val	Asp	Val	Asp	Ser	Pro	Leu	Asp	445	Met	Val	Lys	Gln	Ser	450	Gly	Leu	Met	Val
Thr	Phe	Asn	Ser	Ser	Gln	Ser	Leu	455	Glu	Thr	Asn	Ile	Lys	460	Ala	Asn	Leu	Val
		595						600						605				

His Thr Phe Asp Asp Arg Tyr Asp Val Ala Gly Phe Ile Glu Ala Ser
 610 615 620
 Ser Gly Asp Gly Leu Phe Glu Asp Ile Ala Ala Ala Phe Glu Glu Ile
 625 630 635 640
 Ser Lys Asn Glu Gly Pro Leu Gln Ala Ser Glu Met Val Gln Arg His
 645 650 655
 Ala Val Leu His Pro Leu Lys Leu Gly Ser Cys Met Arg Asp Val Asn
 660 665 670
 Leu Trp Gly Cys Pro Tyr Arg Met Lys Cys Gln Ala Leu Lys Pro Cys
 675 680 685
 Glu His Phe Thr Leu Thr Gly Arg Ile Asp Glu Tyr Ser Thr Ile Ala
 690 695 700
 Val Lys Gly Arg Ala Leu Asn Glu Ala Ser Leu Ala Phe Glu Gln Tyr
 705 710 715 720
 Ile Ala Ala Leu Pro Asp Asn Gln Leu Ile Gln Gly Asn Ile Glu Glu
 725 730 735
 Asn Leu Thr His Leu Asp Ala Leu Ser Asp Gln Leu Arg Arg Arg Ser
 740 745 750
 Asn Leu Leu Gln Val Leu Ser Ala Gln Glu Ile Leu Ser Gly Glu Ile
 755 760 765
 Lys Val Glu Gly Glu Ile Arg Thr Leu Ala Gln Leu Phe Ala Leu Glu
 770 775 780
 His His Lys Asn Lys Glu Glu Glu Asn
 785 790

<210> 6232

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 6232

Arg Phe Thr Val Gly Asn Asn Asp Val Leu Glu Val Gly Val Ala Glu
 1 5 10 15
 Gln Leu Glu Phe Phe Pro Val Gln Ser Pro Cys Arg Gly Ile Cys Gln
 20 25 30
 Val Asp Glu Arg Gly Tyr Cys Arg Gly Cys Met Arg Thr Arg Asp Glu
 35 40 45
 Arg Phe Asn Trp Gln Asn Phe Ser Asp Ala Gln Lys Gln Glu Val Leu
 50 55 60
 Arg Leu Cys Arg Gln Arg Leu Leu Arg Lys Ile Arg Ala Asn Lys Ala
 65 70 75 80
 Val Glu Pro Glu Glu Pro Gln Gln Pro Ser Leu Phe
 85 90

<210> 6233

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 6233

His Tyr Phe Leu Glu Glu Asn Val Met Val Gln Arg Ile Thr Leu Ala
 1 5 10 15
 Pro Gln Gly Pro Glu Phe Ser Arg Phe Val Met Gly Tyr Trp Arg Leu
 20 25 30
 Met Asp Trp Asn Met Ser Pro Val Gln Leu Ala Asp Phe Ile Glu Glu
 35 40 45
 His Leu Asp Leu Gly Ile Thr Thr Val Asp His Ala Asp Ile Tyr Gly
 50 55 60
 Gly Tyr Gln Cys Glu Ala Ala Phe Gly Glu Ala Leu Lys Arg Ala Pro
 65 70 75 80
 Gly Leu Arg Glu Arg Met Glu Ile Val Thr Lys Cys Gly Ile Ala Thr

85 90 95
 Thr Ala Lys Pro Glu His Ala Leu Gly His Tyr Ile Thr Asp Ser Ala
 100 105 110
 His Ile Val Lys Ser Ala Glu Gln Ser Leu Val Asn Leu Ala Thr Asp
 115 120 125
 Arg Ile Asp Leu Leu Leu Ile His Arg Pro Asp Pro Leu Met Asp Ala
 130 135 140
 Asp Glu Val Ala Glu Ala Phe Leu Thr Leu His Gln Ser Gly Lys Val
 145 150 155 160
 Arg His Phe Gly Val Ser Asn Phe Thr Pro Ala Gln Phe Ala Leu Leu
 165 170 175
 Gln Ser Arg Leu Pro Phe Thr Leu Ala Thr Asn Gln Val Glu Ile Ser
 180 185 190
 Pro Val His Gln Pro Leu Leu Leu Asp Gly Thr Leu Asp Gln Leu Gln
 195 200 205
 Gln Leu Arg Ile Arg Pro Met Ala Trp Ser Cys Leu Gly Gly Arg
 210 215 220
 Leu Phe Asn Asp Glu Ala Phe Gln Pro Leu Arg Asn Glu Leu Glu Thr
 225 230 235 240
 Val Ala Arg Glu Leu Asn Ala Glu Ser Ile Glu Gln Val Val Tyr Ala
 245 250 255
 Trp Ile Leu Arg Leu Pro Ser Lys Pro Leu Pro Ile Ile Gly Ser Gly
 260 265 270
 Lys Ile Glu Arg Val Arg Ala Ala Leu Val Ala Glu Glu Leu Asp Met
 275 280 285
 Thr Arg Gln Gln Trp Phe Arg Ile Arg Lys Ala Ala Leu Gly Tyr Asp
 290 295 300
 Val Pro
 305

<210> 6234

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 6234

Asn Leu Arg Leu Trp Tyr Arg Leu Lys Val Gln Lys Ile Thr Arg Gly
 1 5 10 15
 Gly His Met Lys Arg Phe Ala Leu Ala Met Val Thr Leu Val Val Cys
 20 25 30
 Ala Gly Ala Gln Ala Ala Ser Glu Asp Val Glu Met Asn Leu Val Thr
 35 40 45
 Ser Gln Gly Val Gly Gln Ser Ile Gly Thr Val Lys Ile Thr Glu Thr
 50 55 60
 Asp Lys Gly Leu Glu Phe Ala Pro Asp Leu Lys Ala Leu Pro Pro Gly
 65 70 75 80
 Glu His Gly Phe His Val His Ala Lys Gly Ser Cys Gln Pro Ala Met
 85 90 95
 Lys Glu Gly Lys Pro Thr Ala Ala Glu Ala Ala Gly Gly His Leu Asp
 100 105 110
 Pro Gln Asn Ser Gly Lys His Glu Gly Pro Glu Gly Met Gly His Leu
 115 120 125
 Gly Asp Leu Pro Val Leu Val Val Asn Asn Asp Gly Lys Ala Thr Asp
 130 135 140
 Pro Val Val Ala Pro Arg Leu Lys Lys Leu Asp Glu Val Lys Gly Lys
 145 150 155 160
 Ala Leu Met Ile His Val Gly Gly Asp Asn Met Ser Asp Gln Pro Lys
 165 170 175
 Pro Leu Gly Gly Gly Gly Ala Arg Tyr Ala Cys Gly Val Ile
 180 185 190

<210> 6235
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 6235
 Asn Leu Pro Leu Trp Pro Ser Phe His Arg Lys Gly Ser Leu Leu Val
 1 5 10 15
 Thr Leu Phe Ser Phe Ser Ala Gly Leu Pro Leu Gln Asp Leu Ile Val
 20 25 30
 Gly Ala Ser Val Tyr Phe Pro Pro Leu Phe Lys Ala Val Met Val Gly
 35 40 45
 Phe Val Ile Trp Leu Ile Ala His Arg Leu Leu Arg Asp Trp Met Tyr
 50 55 60
 Ser Gly Glu Ile Trp His Pro Met Leu Met Asp Leu Ser Leu Phe Thr
 65 70 75 80
 Leu Ser Val Cys Leu Gly Leu Ala Val Leu Thr Val Trp
 85 90

<210> 6236
 <211> 700
 <212> PRT
 <213> Enterobacter cloacae

<400> 6236
 Ser Thr Ala Glu Arg His Tyr Pro Gly Leu Trp His Asn Leu His Cys
 1 5 10 15
 Arg His Arg Ile Ala Met Met Asn Leu Gly Ala Leu Ser Trp Arg Asn
 20 25 30
 Thr Pro Trp Ile Lys Ala Thr Arg Pro Gln Trp Arg Tyr Ala Leu Arg
 35 40 45
 Asn Gly Ile Ala Met Cys Leu Ala Leu Thr Val Ala Tyr Tyr Leu Asn
 50 55 60
 Leu Asp Glu Pro Tyr Trp Ala Met Thr Ser Ala Ala Val Val Ser Phe
 65 70 75 80
 Pro Thr Val Gly Gly Val Ile Ser Lys Ser Leu Gly Arg Val Ala Gly
 85 90 95
 Ser Leu Leu Gly Ala Thr Ala Ala Leu Leu Leu Ala Gly His Thr Leu
 100 105 110
 Asn Asp Pro Trp Leu Phe Leu Leu Ser Met Ser Ala Trp Leu Gly Leu
 115 120 125
 Cys Thr Trp Ala Cys Ala His Phe Thr Asn Asn Val Ala Tyr Ala Phe
 130 135 140
 Gln Leu Ala Gly Tyr Thr Ala Ala Ile Ile Ala Phe Pro Val Val Asn
 145 150 155 160
 Val Leu Asp Thr Thr Glu Leu Trp Asp Ile Ala Gln Ala Arg Val Cys
 165 170 175
 Glu Val Met Val Gly Ile Leu Cys Gly Gly Val Met Met Ile Leu
 180 185 190
 Pro Ser Thr Ser Asp Gly Thr Thr Leu Ile Thr Ala Leu Lys Thr Met
 195 200 205
 His Ala Arg Leu Leu Glu His Ala Ser Leu Leu Trp Gln Pro Asp Ser
 210 215 220
 Ser Asp Asp Ile Arg Leu Ala His Glu Lys Val Ile Gly Gln Ile Leu
 225 230 235 240
 Thr Met Asn Leu Leu Arg Ile Gln Ala Phe Trp Ser His Tyr Arg Phe
 245 250 255
 Arg Arg Gln Asn Thr Leu Leu Asn Tyr Leu His Gln Gln Leu Arg
 260 265 270
 Met Thr Ser Ala Ile Ser Ser Leu Arg Arg Met Leu Leu Asn Trp Pro
 275 280 285

Thr Pro Pro Ala His Thr Arg Glu Ile Ile Glu Ala Leu Leu Ala Thr
 290 295 300
 Leu Ala Arg Ser Asp Ala Asp Ile Tyr Thr Val Ala Arg Ile Ile Ala
 305 310 315 320
 Pro Leu Ala Pro Ala Asp Glu Tyr Asp Tyr Arg His Arg Ala Phe Trp
 325 330 335
 Gln Arg Leu Asn Tyr Phe Cys Arg Leu Tyr Leu Arg Ser Ser Arg Trp
 340 345 350
 Leu Lys Ala Val Glu Asn Ala Thr Pro Val Thr Glu Phe Ser Val Pro
 355 360 365
 Gly Ser Pro Ala Leu Ala Arg His Thr Asp Ala Met Glu Ala Leu Trp
 370 375 380
 Ser Gly Phe Arg Thr Phe Cys Ala Leu Thr Ala Val Gly Ala Trp Ala
 385 390 395 400
 Ile Thr Thr Gln Trp Asp Ala Gly Ser Ala Ala Leu Thr Leu Ala Ala
 405 410 415
 Ile Ser Cys Val Leu Tyr Ser Val Ala Ala Ser Pro Phe Asn Ser Leu
 420 425 430
 Thr Leu Leu Leu Arg Thr Leu Val Leu Leu Ser Leu Phe Ser Phe Val
 435 440 445
 Val Lys Phe Gly Leu Met Val Gln Ile Thr Asp Leu Trp Gln Phe Leu
 450 455 460
 Leu Phe Leu Phe Pro Leu Leu Thr Thr Met Gln Leu Leu Lys Leu Gln
 465 470 475 480
 Met Pro Lys Leu Ala Gly Leu Trp Gly Gln Leu Ile Val Phe Met Gly
 485 490 495
 Ser Phe Ile Ser Val Thr Asn Pro Pro Val Tyr Asp Tyr Ala Asp Phe
 500 505 510
 Leu Asn Asp Asn Leu Ala Lys Ile Leu Gly Val Gly Leu Ala Trp Leu
 515 520 525
 Ala Phe Ala Val Leu Arg Pro Gly Ser Asp Ala Arg Lys Ser Arg Arg
 530 535 540
 His Ile Arg Glu Leu Arg Arg Gly Phe Val Asp Gln Leu Ser Arg Arg
 545 550 555 560
 Pro His Leu Arg Glu Ser Glu Tyr Glu Ser Leu Val Tyr His His Val
 565 570 575
 Ser Gln Leu Asn Asn Ser Gln Asp Ser Leu Ser Arg Arg Trp Leu Leu
 580 585 590
 Arg Trp Gly Val Val Leu Leu Asn Cys Ser His Val Val Trp Gln Leu
 595 600 605
 Arg Ala Trp Glu Thr Arg Ser Asp Pro Leu Ser Gln Val Arg Asp Asn
 610 615 620
 Cys Ile Ser Met Leu Arg Asp Val Met Ser Glu Arg Gly Val Gln Gln
 625 630 635 640
 Arg Pro Leu Ser Val Thr Leu Ala Glu Leu Gln Arg Ile Cys Asp Thr
 645 650 655
 Leu Ala His His His Gln Pro Ala Ala Arg Asp Leu Ala Ser Ile Ile
 660 665 670
 Trp Arg Leu His Cys Ser Leu Ser Gln Leu Glu Gln Ala Pro Pro Pro
 675 680 685
 Gly Thr Ile Gly Asp Gln Ile Thr Pro Gln Ala
 690 695 700

<210> 6237

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 6237

Asn Leu Ala Pro Asp Val Asn Gly Ser Leu Pro Val Tyr Pro Leu Arg
 1 5 10 15

Leu Ser Trp Pro Cys Arg Val Asn Arg Val Val Arg Ile Ala Leu Lys
 20 25 30
 Thr Leu Lys Tyr Phe Ser Thr Leu Phe Val Leu Ala Leu Ala Leu Ile
 35 40 45
 Ala Gly Trp Trp Leu Trp Asn Tyr Tyr Met Gln Ser Pro Trp Thr Arg
 50 55 60
 Asp Gly Lys Ile Arg Ala Glu Gln Val Ser Ile Thr Pro Gln Val Ser
 65 70 75 80
 Gly Ser Ile Ser Ala Leu Leu Val Lys Asp Asn Gln Ser Val His Ala
 85 90 95
 Gly Asp Val Leu Phe Arg Ile Asp Glu Thr Pro Phe His Ile Ala Val
 100 105 110
 Leu Asn Ala Gln Ala Gln Leu Ala Lys Ala Gln Ser Asp Leu Ala Lys
 115 120 125
 Ala Asn Asn Glu Ala Glu Arg Arg Arg His Leu Ser Arg Asn Tyr Ile
 130 135 140
 Ser Ala Glu Asp Leu Asp Thr Ala Asn Ile Asn Val Lys Ala Met Gln
 145 150 155 160
 Ala Ser Leu Lys Val Ala Glu Ala Thr Leu Lys Gln Ala Glu Trp Gln
 165 170 175
 Leu Thr Gln Thr Val Val Lys Ala Pro Val Asp Gly Trp Ile Thr Ser
 180 185 190
 Leu Ser Thr Arg Val Gly Asp Tyr Ala Thr Thr Gly Gln Pro Val Phe
 195 200 205
 Ala Leu Val Asp Ser Arg Ser Phe Tyr Val Val Gly Tyr Phe Glu Glu
 210 215 220
 Thr Lys Leu Arg His Ile Arg Glu Gly Ala Pro Ala Arg Ile Thr Leu
 225 230 235 240
 Tyr Ser Gly Ala Glu Thr Leu Gln Gly His Val Ser Ser Ile Gly Arg
 245 250 255
 Ala Ile Tyr Asp Gln Ser Val Glu Thr Asp Ser Gly Leu Val Pro Asp
 260 265 270
 Ile Lys Pro Asn Val Pro Trp Val Arg Leu Ala Gln Arg Val Pro Val
 275 280 285
 Arg Val Glu Phe Asp Gln Leu Pro Lys Asp Ile Thr Leu Val Ser Gly
 290 295 300
 Thr Thr Cys Thr Val Ala Ile Gly Ser Arg
 305 310 315

<210> 6238

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 6238

Asn Gln Cys Ile Pro Val Ser Arg Met Lys Asn Gln Ser Val Ile Arg
 1 5 10 15
 Gln Phe Ser Glu Ser Glu Leu His Gln Gln Leu Glu Thr Phe Gly Asn
 20 25 30
 His Asp Lys Gln Leu Ser Arg Leu Ile Arg Tyr Phe Ser His Leu Arg
 35 40 45
 Tyr Asn Thr Ala Lys Thr Tyr Leu His Trp Leu Arg Val Trp Asn Glu
 50 55 60
 Trp Tyr Leu Ala Asn Ala Arg Leu His Thr Asp Trp Pro Val Ser Ser
 65 70 75 80
 Leu Pro Val Ser Glu Asp Ala Leu Leu Ala Phe Met Gly His Leu Glu
 85 90 95
 Gly Lys Leu Ser Arg Ser Ser Ile Asn Ser Cys Leu Gln Ala Leu Asn
 100 105 110
 Ser Ile His Lys Lys Gly Leu Asn Leu Pro Gly Ile Ile Thr Ser Glu
 115 120 125

Ala Trp Tyr Met Leu Glu Ala Leu Lys Gln Ser Glu Ala Arg Lys Arg
 130 135 140
 Lys Thr Thr Lys Gln Ala Thr Pro Phe Leu Ile Gly Asp Leu Lys Ala
 145 150 155 160
 Leu Ile Lys Leu Arg Ser Thr Thr Asn Ser Val Arg Lys Leu Arg Asp
 165 170 175
 Leu Cys Leu Ile Trp Thr Gly Phe Glu Thr Leu Leu Arg Ser Ser Glu
 180 185 190
 Ile Arg Arg Ile Arg Leu Lys Asp Leu Ser Leu Asp Ser Met Thr Gly
 195 200 205
 Glu Phe Asn Leu Thr Val Tyr Arg Thr Lys Thr Asn Ile Ser Thr Leu
 210 215 220
 Leu Thr Tyr Arg Leu Thr Arg Gln Leu Thr Asn Cys Leu Leu Arg Leu
 225 230 235 240
 Met Asn Leu Val Lys Met Asp Gln His Ser His Pro Asp Glu Tyr Leu
 245 250 255
 Phe Gln Ala Val Asn Phe His Asp Thr Gly Tyr Met Pro Gly Trp
 260 265 270
 Lys Leu Arg Ser Lys Gly Asn Glu Leu Ser Glu Leu Leu Lys Arg His
 275 280 285
 Asn Leu Pro Tyr Arg Ala Lys Gln Ser Leu Leu Asn Asp Glu Asp Glu
 290 295 300
 Glu Asp Thr Val Asp Asp Ala Gly Met Leu Ser Lys Asn Ser Leu Leu
 305 310 315 320
 Arg Ala Phe Lys Glu Met Trp Asn Glu Leu Tyr Pro Asn Glu Thr Lys
 325 330 335
 Thr Arg Tyr Trp Thr Gly His Ser Val Arg Val Gly Gly Ala Ile Gln
 340 345 350
 Leu Asp Ile Glu Gly Tyr Ser Leu Pro Gln Ile Met Glu Met Gly Asn
 355 360 365
 Trp Ser Asn Glu Glu Met Val Met Arg Tyr Ile Arg Asn Ile Glu Ala
 370 375 380
 Gly Lys Lys Ala Met Ile Lys Leu Met Arg Asn Ala Phe Asp Glu
 385 390 395 400

<210> 6239

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6239

His Leu Cys Ser Ala Arg Ser Ala Trp Ala Ala Lys Leu Ile Gly Asn
 1 5 10 15
 Asn Met Ser Leu Glu Lys Arg Met Ser Tyr Asp Asp Leu Pro Tyr Phe
 20 25 30
 Arg Asp Gln Ile Leu Glu Arg Ile Asp Ser Leu Lys Cys Phe Phe Ser
 35 40 45
 Asn Thr Pro Pro Met Met Ala Asn Leu Met Thr Val Ser Thr Val Ser
 50 55 60
 Arg Thr Glu Glu Arg Leu Lys Gln Val Lys Pro Ile Arg Val Ser Ile
 65 70 75 80
 Lys Asp Asp Ala Ser Val Glu Glu Ile Ile Gln Ala Leu Thr Asp Ile
 85 90 95
 Cys Val Asp Asp Ile Glu Ser Leu Ser His Asp Ser Thr Lys Val Thr
 100 105 110
 Thr Lys Tyr Pro Gly Leu Ile Ile Val Pro Glu Arg Ala Asp Leu Leu
 115 120 125
 Glu Ser Leu Ile Thr Ser Ile Asn Glu Ala Lys Asn Asp Phe Ala Ala
 130 135 140
 Ala Met Arg Arg Ile Asp Asn Lys Lys Asn Val Arg Phe Asp Lys Val
 145 150 155 160

His Lys Lys Leu Pro Gly Leu Val Ala Met His Ser Thr Arg Asn Ile
 165 170 175
 Leu Phe Ile Lys Ser Gln Leu Lys Lys Val Thr Phe Ser Trp Arg Leu
 180 185 190
 Asn Arg Asn Gln Glu Val Lys Thr Ala Glu Gln Leu Val Ser Leu Leu
 195 200 205
 Glu Arg Arg Arg Ala Ser Glu Val Lys Asn Val Ala Thr Thr Asn Leu
 210 215 220
 Asn Val Val Ser Asn Ile Asp Lys Ala Leu His Arg Leu Glu Phe His
 225 230 235 240
 Pro Leu Lys Gln Gly Glu Ser Tyr Arg Leu Cys Arg Thr Asn Ser Phe
 245 250 255
 Pro Val Pro Ile Ala His Ile Phe Ala Phe Arg Pro Glu Gly Gln Glu
 260 265 270
 Arg Asn Gly Asn Lys Tyr Ala Glu Thr Asp Tyr Ser Val Val Lys Ala
 275 280 285
 Ser Leu Pro Ile Phe Ala Ala Gly Asn Ile Pro Gln Leu Lys Thr Leu
 290 295 300
 Ser Asp Trp Ala Pro Glu Asn Ser Gln Gly Pro Ser Asn Gln Arg Lys
 305 310 315 320
 Leu Ser Leu Lys Tyr Thr Glu Leu Val Pro Gly Ala Glu Leu Gly Ile
 325 330 335
 Phe Ile Val Ser Pro Glu Asn
 340

<210> 6240

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 6240

Phe Ser Gln Ile Glu Lys Met Gly Arg Arg Phe Asn Phe Asn Ser Ser
 1 5 10 15
 Ala Ser Arg Tyr Ser Leu Asn Pro Leu Gly Tyr Ala Gly Ile Gly Ala
 20 25 30
 Asp Gly Ala Phe Asn Thr Ala Ile Ser Phe Thr Thr Asn Thr Asn Trp
 35 40 45
 Gln Trp Tyr Ser Gly Glu Ala Ala Met Ser Asn Leu Ser Gln Met Leu
 50 55 60
 Ala Leu Thr Ile His Asn Phe Leu Ser Ala Ala Thr Gly Ile Ala Leu
 65 70 75 80
 Ala Phe Ala Leu Phe Arg Gly Phe Ala Arg Arg Glu Ala Thr Gly Ile
 85 90 95
 Gly Asn Phe Trp Ala Asp Val Thr Arg Val Thr Leu Tyr Val Leu Leu
 100 105 110
 Pro Ile Ser Val Val Tyr Gly Val Phe Leu Ile Ala Ser Gly Val Pro
 115 120 125
 Gln Thr Leu Ala Ala Ser Val Asp Val Ser Thr Leu Glu Gly Val Arg
 130 135 140
 Gln Thr Leu Gly Leu Gly Pro Val Ala Ser Gln Glu Ala Ile Lys Met
 145 150 155 160
 Leu Gly Thr Asn Gly Gly Gly Phe Phe Asn Ala Asn Ser Ala His Pro
 165 170 175
 Phe Glu Asn Pro Asp Ala Leu Thr Asn Phe Ile Glu Leu Leu Val Phe
 180 185 190
 Thr Thr Asp Ser Arg Ile Arg Thr Ser Gly
 195 200

<210> 6241

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 6241

```

Ile Leu Ile Cys Ala Leu Ile Val Ser Val Leu Leu Leu Ile Pro Leu
1      5      10      15
Ala Met Val Leu Ser Pro Trp Leu Leu Gly Val Leu Arg Phe Leu Leu
20      25      30
Gly Ala Ala Asp Gly Ala Leu Leu Pro Ala Val Leu Thr Leu Leu Val
35      40      45
Phe Phe Ser Ser Phe Leu Ile Ala Gly Arg Phe Phe Cys Phe Phe Gln
50      55      60
Ser Phe Arg Asp Leu Gly Ile Val Ser Gly Pro Leu Val Gly Ala Gly
65      70      75      80
Ile Ser Ala Cys Phe Gly Phe Arg Ala Val Phe Ile Val Thr Ala Gly
85      90      95
Val Val Leu Phe Asn
100

```

<210> 6242

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 6242

```

Trp Pro Ser Met Pro Asp Ser Ser Gly Cys Gly Met Pro Tyr Trp Lys
1      5      10      15
Arg Gly Leu Thr Met Ile Val Lys Phe His Pro Arg Gly Arg Gly Gly
20      25      30
Gly Ala Gly Pro Val Asp Tyr Leu Leu Gly Lys Asp Arg Gln Arg Asp
35      40      45
Gly Ala Ser Val Leu Gln Gly Lys Pro Glu Glu Val Arg Glu Leu Ile
50      55      60
Asp Ala Ser Pro Tyr Ala Lys Lys Tyr Thr Ser Gly Val Leu Ser Phe
65      70      75      80
Ala Glu Gln Asp Leu Pro Pro Gly Gln Arg Leu Lys Arg Leu Met Ala
85      90      95
Ser Phe Gln Arg Val Leu Met Pro Gly Leu Asp Lys Asp His Tyr Thr
100      105      110
Val Leu Trp Val Glu His Arg Asp Lys Gly Pro Ala Gly Ala Glu Leu
115      120      125
Pro Asp Pro Lys Pro Arg Asn Cys Leu Thr Ala Asn Gly Pro Thr Ile
130      135      140
Leu
145

```

<210> 6243

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 6243

```

Met Pro Leu Thr Arg Leu Arg Leu Ala Gln His Arg Ala Asp Arg Glu
1      5      10      15
Lys Ile Ser Arg Pro Ser Arg Arg Tyr Gln Glu Ala Gly Leu Ala Asp
20      25      30
Lys Arg Ser Lys Met Leu Thr Met Trp Val Thr Glu Asp Glu His Arg
35      40      45
Arg Leu Leu Glu Arg Cys Asp Gly Lys Gln Leu Ala Ala Trp Met Arg
50      55      60
Gln Thr Cys Leu Asp Glu Lys Pro Ala Arg Ala Gly Lys Leu Pro Ser
65      70      75      80

```

Ile Ser Pro Ala Leu Leu Arg Gln Leu Ala Gly Met Gly Asn Asn Leu
 85 90 95
 Asn Gln Ile Ala Arg Gln Val Asn Ala Gly Gly Ser Ser Gly Leu Asp
 100 105 110
 Arg Val Gln Val Val Ala Ala Leu Met Ala Ile Asp Ala Gly Leu Glu
 115 120 125
 Arg Leu Arg His Ala Val Leu Glu Lys Gly Ala Asp Asp Arg
 130 135 140

<210> 6244

<211> 331

<212> PRT

<213> Enterobacter cloacae

<400> 6244

Ala Arg Thr Arg Arg Phe Val Met Val His Arg Ser Met Leu Met Ser
 1 5 10 15
 Lys Lys Glu Gln Thr Leu Met Thr Pro Tyr Leu Gln Phe Asn Arg Ser
 20 25 30
 Gln Trp Ala Ala Leu Arg Asp Ser Val Pro Met Thr Leu Thr Glu Gly
 35 40 45
 Glu Ile Ala Arg Leu Lys Gly Ile Asn Glu Asp Leu Ser Leu Glu Glu
 50 55 60
 Val Ala Glu Ile Tyr Leu Pro Leu Ser Arg Leu Leu Asn Phe Tyr Ile
 65 70 75 80
 Ser Ser Asn Leu Arg Arg Gln Ala Val Leu Glu Gln Phe Leu Gly Thr
 85 90 95
 Asn Gly Gln Arg Ile Pro Tyr Ile Ile Ser Ile Ala Gly Ser Val Ala
 100 105 110
 Val Gly Lys Ser Thr Thr Ala Arg Val Leu Gln Ala Leu Leu Ser Arg
 115 120 125
 Trp Pro Glu His Arg Ser Val Glu Leu Ile Thr Thr Asp Gly Phe Leu
 130 135 140
 His Pro Asn Glu Val Leu Lys Glu Arg Gly Leu Met Lys Lys Lys Gly
 145 150 155 160
 Phe Pro Leu Ser Tyr Asp Met His Arg Leu Val Lys Phe Val Ser Asp
 165 170 175
 Leu Lys Ser Gly Val Pro His Val Thr Ala Pro Val Tyr Ser His Leu
 180 185 190
 Ile Tyr Asp Arg Ile Pro Asp Gly Asp Lys Thr Val Val Gln Pro Asp
 195 200 205
 Ile Leu Ile Leu Glu Gly Leu Asn Val Leu Gln Ser Gly Met Asp Tyr
 210 215 220
 Pro His Asp Pro His His Val Phe Val Ser Asp Phe Val Asp Phe Ser
 225 230 235 240
 Ile Tyr Val Asp Ala Pro Glu Asp Leu Leu Gln Arg Trp Tyr Ile Asn
 245 250 255
 Arg Phe Leu Lys Phe Arg Glu Gly Ala Phe Thr Asp Pro Asp Ser Tyr
 260 265 270
 Phe His Asn Tyr Ala Gln Leu Ser Glu Glu Glu Ala Ile Ser Val Ala
 275 280 285
 Thr Gly Leu Trp Asn Glu Ile Asn Tyr Val Asn Leu Lys Glu Asn Ile
 290 295 300
 Leu Pro Thr Arg Glu Arg Ala Ser Leu Ile Leu Thr Lys Ser Glu Lys
 305 310 315 320
 His Ala Val Asp Gln Ile Arg Leu Arg Lys
 325 330

<210> 6245

<211> 395

<212> PRT

<213> *Enterobacter cloacae*

<400> 6245

```

Ile Ile Ser Arg Val Phe Ser Leu Ser Leu Trp Glu Arg Ala Gly Val
1      5      10      15
Trp Gly Val His Ala Pro Pro His Pro Asn Pro Leu Pro Gln Gly Glu
20      25      30
Gly Ile Tyr Ile Cys Glu Gln Tyr Arg Arg His Ala Thr Glu Cys Ala
35      40      45
Ser Ser Glu Arg Ile Arg Val Met Leu Gln Phe Ile Leu Arg Arg Leu
50      55      60
Gly Leu Val Ile Pro Thr Phe Ile Gly Ile Thr Leu Leu Thr Phe Ala
65      70      75      80
Phe Val His Met Ile Pro Gly Asp Pro Val Met Ile Met Ala Gly Glu
85      90      95
Arg Gly Ile Ser Pro Glu Arg His Ala Gln Leu Leu Ala Glu Leu Gly
100     105     110
Leu Asp Lys Pro Met Trp Gln Gln Tyr Leu His Tyr Ile Trp Gly Val
115     120     125
Leu His Gly Asp Leu Gly Ile Ser Leu Lys Ser Arg Leu Pro Val Trp
130     135     140
Asp Glu Phe Val Pro Arg Phe Lys Ala Thr Leu Glu Leu Gly Ile Cys
145     150     155     160
Ala Met Ile Phe Ala Thr Ala Val Gly Ile Pro Val Gly Val Leu Ala
165     170     175
Ala Val Lys Arg Gly Ser Ile Phe Asp His Thr Ala Val Gly Leu Ala
180     185     190
Leu Thr Gly Tyr Ser Met Pro Ile Phe Trp Trp Gly Met Met Leu Ile
195     200     205
Met Leu Val Ser Val Gln Trp Asn Leu Thr Pro Val Ser Gly Arg Val
210     215     220
Ser Asp Met Val Phe Leu Asp Asp Thr Asn Pro Leu Thr Gly Phe Met
225     230     235     240
Leu Ile Asp Thr Ala Ile Trp Gly Glu Glu Gly Asn Phe Ile Asp Ala
245     250     255
Val Ala His Met Ile Leu Pro Ala Met Val Leu Gly Thr Ile Pro Leu
260     265     270
Ala Val Ile Val Arg Met Thr Arg Ser Ser Met Leu Glu Val Leu Gly
275     280     285
Glu Asp Tyr Ile Arg Thr Ala Arg Ala Lys Gly Leu Thr Arg Met Arg
290     295     300
Val Ile Ile Ile His Ala Leu Arg Asn Ala Met Leu Pro Val Val Thr
305     310     315     320
Val Ile Gly Leu Gln Val Gly Thr Leu Leu Ala Gly Ala Ile Leu Thr
325     330     335
Glu Thr Ile Phe Ser Trp Pro Gly Leu Gly Arg Trp Leu Ile Asp Ala
340     345     350
Leu Gln Arg Arg Asp Tyr Pro Val Val Gln Gly Gly Val Leu Leu Val
355     360     365
Ala Thr Met Ile Ile Leu Val Asn Leu Leu Val Asp Leu Leu Tyr Gly
370     375     380
Val Val Asn Pro Arg Ile Arg His Lys Lys
385     390     395

```

<210> 6246

<211> 304

<212> PRT

<213> *Enterobacter cloacae*

<400> 6246

Gly Ala Ile Met Ser Gln Val Thr Gln Asn Lys Val Val Thr Ala Pro

```

1           5           10           15
Val Pro Met Thr 20 Pro Met Gln Glu Phe Trp His Tyr Phe Lys Arg Asn
Lys Gly Ala Val Val Gly Leu Val Tyr Val Ser Ile Met Ile Leu Ile
35
Ala Val Phe Ala Asn Val Leu Ala Pro Tyr Asn Pro Ala Asp Gln Phe
50
Arg Asp Ala Leu Leu Ala Pro Pro Ala Trp Gln Asp Gly Gly Ser Leu
65
Ala His Leu Leu Gly Thr Asp Asp Val Gly Arg Asp Val Leu Ser Arg
85
Leu Met Tyr Gly Ala Arg Leu Ser Leu Leu Val Gly Cys Leu Val Val
100
Val Leu Ser Leu Ile Met Gly Ile Val Leu Gly Leu Val Ala Gly Tyr
115
Phe Gly Gly Ile Val Asp Asn Ile Ile Met Arg Val Val Asp Ile Met
130
Leu Ala Leu Pro Ser Leu Leu Leu Ala Leu Val Leu Val Ala Ile Phe
145
Gly Pro Ser Ile Gly Asn Ala Ala Leu Ala Leu Thr Phe Val Ala Leu
165
Pro His Tyr Val Arg Leu Thr Arg Ala Val Leu Val Glu Val Asn
180
Arg Asp Tyr Val Thr Ala Ser Arg Val Ala Gly Ala Gly Ala Met Arg
195
Gln Met Phe Ile Ser Ile Phe Pro Asn Cys Leu Ala Pro Leu Ile Val
210
Gln Ala Ser Leu Gly Phe Ser Asn Ala Ile Leu Asp Met Ala Ala Leu
225
Gly Phe Leu Gly Met Gly Ala Gln Pro Pro Thr Pro Glu Trp Gly Thr
245
Met Leu Ser Asp Val Leu Gln Phe Ala Gln Ser Ala Trp Thr Val Val
260
Thr Phe Pro Gly Leu Ala Ile Leu Leu Thr Val Leu Ala Phe Asn Leu
275
Met Gly Asp Gly Leu Arg Asp Ala Leu Asp Pro Lys Leu Lys Gln
290
295
300

```

<210> 6247

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6247

```

Cys Arg Glu Ala Asn Thr Met Ser Thr His Gln Ala Thr Thr Gln Gln
1           5           10           15
Pro Leu Leu Gln Ala Ile Asp Leu Lys Lys His Tyr Pro Val Lys Lys
20
Gly Ile Phe Ala Pro Glu Arg Leu Val Lys Ala Leu Asp Gly Val Ser
35
Phe Ser Leu Glu Arg Gly Lys Thr Leu Ala Val Val Gly Glu Ser Gly
50
Cys Gly Lys Ser Thr Leu Gly Arg Leu Leu Thr Met Ile Glu Thr Pro
65
Thr Gly Gly Glu Leu Tyr Tyr Gln Gly Gln Asp Leu Leu Lys His Asp
85
Pro Gln Ala Gln Lys Leu Arg Arg Gln Lys Ile Gln Ile Val Phe Gln
100
Asn Pro Tyr Gly Ser Leu Asn Pro Arg Lys Lys Val Gly Gln Ile Leu
115
Glu Glu Pro Leu Leu Ile Asn Ser Asn Leu Ser Lys Glu Gln Arg Arg
120
125

```

130 135 140
 Glu Lys Ala Leu Ala Met Met Ala Lys Val Gly Leu Lys Thr Glu His
 145 150 155 160
 Tyr Asp Arg Tyr Pro His Met Phe Ser Gly Gly Gln Arg Gln Arg Ile
 165 170 175
 Ala Ile Ala Arg Gly Leu Met Leu Asp Pro Asp Val Val Ile Ala Asp
 180 185 190
 Glu Pro Val Ser Ala Leu Asp Val Ser Val Arg Ala Gln Val Leu Asn
 195 200 205
 Leu Met Met Asp Leu Gln Gln Asp Leu Gly Leu Ser Tyr Val Phe Ile
 210 215 220
 Ser His Asp Leu Ser Val Val Glu His Ile Ala Asp Glu Val Met Val
 225 230 235 240
 Met Tyr Leu Gly Arg Cys Val Glu Lys Gly Thr Lys Asp Gln Ile Phe
 245 250 255
 Thr Asn Pro Arg His Pro Tyr Thr Thr Gln Ala Leu Leu Ser Ala Thr Pro
 260 265 270
 Arg Leu Asn Pro Asp Asp Arg Arg Glu Arg Ile Lys Leu Thr Gly Glu
 275 280 285
 Leu Pro Ser Pro Leu Asn Pro Pro Gly Cys Ala Phe Asn Ala Arg
 290 295 300
 Cys Arg Arg Arg Phe Gly Pro Cys Thr Gln Leu Gln Pro Gln Leu Lys
 305 310 315 320
 Asp Tyr Gly Gly Gln Leu Val Ala Cys Phe Ala Val Asp Gln Asp Glu
 325 330 335
 Asn Gly Glu Lys Pro His Ala
 340

<210> 6248

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 6248

Gly Trp Cys Tyr Lys Pro Phe Glu Asp Leu Ile Gln Pro Ala Arg Ala
 1 5 10 15
 Thr Asp Asp His Asn Lys Arg Ile Glu Leu Tyr Lys Gln Ala Gln Val
 20 25 30
 Val Met His Asp Gln Ala Pro Ala Leu Ile Val Ala His Ser Thr Val
 35 40 45
 Tyr Glu Pro Val Arg Lys Glu Val Lys Gly Tyr Val Val Asp Pro Leu
 50 55 60
 Gly Lys His His Phe Glu Asn Val Ser Val Glu
 65 70 75

<210> 6249

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 6249

Ser Ser Lys Arg His Glu Met Ala Leu Leu Asn Val Asn Lys Leu Ser
 1 5 10 15
 Val His Phe Gly Asp Glu Gly Thr Pro Phe Arg Ala Val Asp Arg Ile
 20 25 30
 Ser Tyr Ser Val Asn Gln Gly Glu Val Val Gly Ile Val Gly Glu Ser
 35 40 45
 Gly Ser Gly Lys Ser Val Ser Ser Leu Ala Ile Met Gly Leu Ile Asp
 50 55 60
 Tyr Pro Gly Arg Val Met Ala Glu Asn Leu Glu Phe Asn Gly Gln Asp
 65 70 75 80

Leu Lys Arg Ile Ser Glu Lys Gln Arg Arg Gln Leu Val Gly Ala Glu
 85 90 95
 Val Ala Met Ile Phe Gln Asp Pro Met Thr Ser Leu Asn Pro Cys Tyr
 100 105 110
 Thr Val Gly Phe Gln Ile Met Glu Ala Ile Lys Val His Gln Gly Gly
 115 120 125
 Asn Lys Lys Thr Arg Arg Gln Arg Ala Ile Asp Leu Leu Asn Gln Val
 130 135 140
 Gly Ile Pro Asp Pro Ala Ser Arg Leu Asp Val Tyr Pro His Gln Leu
 145 150 155 160
 Ser Gly Gly Met Ser Gln Arg Val Met Ile Ala Met Ala Ile Ala Cys
 165 170 175
 Arg Pro Lys Leu Leu Ile Ala Asp Glu Pro Thr Thr Ala Leu Asp Val
 180 185 190
 Thr Ile Gln Ala Gln Ile Ile Glu Leu Leu Leu Glu Leu Gln Gln Lys
 195 200 205
 Glu Asn Met Ala Leu Val Leu Ile Thr His Asp Leu Ala Leu Val Ala
 210 215 220
 Glu Ala Ala His Lys Ile Ile Val Met Tyr Ala Gly Gln Val Val Glu
 225 230 235 240
 Thr Gly Ser Ser His Asp Ile Phe Arg Ala Pro Arg His Pro Tyr Thr
 245 250 255
 Gln Ala Leu Leu Arg Ala Leu Pro Glu Phe Ala Gln Asp Lys Ala Arg
 260 265 270
 Leu Ala Ser Leu Pro Gly Val Val Pro Gly Lys Tyr Asp Arg Pro Gln
 275 280 285
 Gly Cys Leu Leu Asn Pro Arg Cys Pro Tyr Ala Thr Asp Lys Cys Arg
 290 295 300
 Ala Glu Glu Pro Glu Leu Asn Leu Leu Ala Asp Gly Arg Gln Ser Lys
 305 310 315 320
 Cys His Tyr Pro Leu Asp Asp Ala Gly Arg Pro Thr Leu
 325 330

<210> 6250

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 6250

Gln Ser Ser Thr Ile Val Met Ser Phe Cys Thr Glu Val Val Met Lys
 1 5 10 15
 Asp Val Val Ile Val Gly Ala Leu Arg Thr Ala Ile Gly Cys Phe Gln
 20 25 30
 Gly Ala Leu Ala Arg His Ser Ala Val Asp Leu Gly Ser Val Val Val
 35 40 45
 Arg Ala Leu Val Glu Arg Ser Gly Ile Ala Ala His Glu Ile Asp Glu
 50 55 60
 Val Ile Leu Gly Gln Val Leu Thr Ala Gly Ala Gly Gln Asn Pro Ala
 65 70 75 80
 Arg Gln Ala Ala Leu Lys Gly Gly Leu Pro Asn Thr Val Ser Ala Ile
 85 90 95
 Thr Ile Asn Asp Val Cys Gly Ser Gly Leu Lys Ala Leu His Leu Ala
 100 105 110
 Thr Gln Ala Ile Gln Cys Gly Glu Ala Asp Val Val Ile Ala Gly Gly
 115 120 125
 Gln Glu Asn Met Ser Arg Ala Pro His Val Leu Thr Asp Ser Arg Thr
 130 135 140
 Gly Ala Gln Leu Gly Asn Ser Gln Leu Leu Asp Ser Leu Val His Asp
 145 150 155 160
 Gly Leu Trp Asp Ala Phe Asn Asp Tyr His Met Gly Val Thr Ala Glu
 165 170 175

Asn Leu Ala Arg Glu Tyr Gly Ile Ser Arg Glu Leu Gln Asp Ala Tyr
 180 185 190
 Ala Leu Ser Ser Gln Gln Lys Ala Arg Ala Ala Ile Asp Ser Gly Arg
 195 200 205
 Phe Arg Asp Glu Ile Val Pro Val Ser Thr Gln Arg Gln Asn Gly Glu
 210 215 220
 Ala Leu Ile Val Asp Thr Asp Glu Gln Pro Arg Thr Asp Ala Ser Ala
 225 230 235 240
 Glu Gly Leu Ala Lys Leu Asp Pro Ala Phe Glu Thr Leu Gly Ser Val
 245 250 255
 Thr Ala Gly Asn Ala Ser Ser Ile Asn Asp Gly Ala Ala Ala Val Met
 260 265 270
 Met Met Ser Glu Ser Lys Ala Gln Glu Leu Ala Leu Pro Val Leu Ala
 275 280 285
 Arg Ile Lys Ala Phe Ala Ser Val Gly Val Asp Pro Ala Leu Met Gly
 290 295 300
 Ile Ala Pro Val Tyr Ala Thr Arg Arg Cys Leu Glu Arg Ala Gly Trp
 305 310 315 320
 Glu Leu Ser Asp Val Asp Leu Ile Glu Val Asn Glu Ala Phe Ala Ala
 325 330 335
 Gln Ala Ile Ser Val Gly Lys Met Leu Glu Trp Asp Pro Leu Arg Val
 340 345 350
 Asn Val Asn Gly Gly Ala Ile Ala Leu Gly His Pro Ile Gly Ala Ser
 355 360 365
 Gly Cys Arg Ile Leu Val Ser Leu Val His Glu Met Lys Lys Arg Asn
 370 375 380
 Ala Arg Lys Gly Ile Ala Thr Leu Cys Ile Gly Gly Gln Gly Val
 385 390 395 400
 Ala Leu Ala Ile Glu Arg
 405

<210> 6251

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6251

Lys Arg Asn Val Ile Leu Ile Glu Gly Phe Phe Met Phe Lys Lys Ser
 1 5 10 15
 Leu Leu Leu Ala Ser Leu Ile Ser Ala Ser Phe Ala Ala Ser Ala Val
 20 25 30
 Thr Val Asp Leu Arg His Glu Tyr Ile Asp Ser Gly Ser Asn Ala Asp
 35 40 45
 Arg Val Ala Val Ser His Arg Phe Asp Asn Gly Phe Gly Phe Ser Val
 50 55 60
 Glu Ala Lys Trp Lys Ser Gly Gly Asp Lys Ala Asp Gln Pro Phe Ala
 65 70 75 80
 Asp Val Val Gly Asn Gly His Glu Asp Gln Ile Ser Trp Arg Trp Lys
 85 90 95
 Ala Thr Asp Asn Ile Ala Leu Thr Pro Ala Phe Thr Ile Glu Ser Thr
 100 105 110
 Asp Ser Arg Thr Ile Tyr Lys Pro Asn Leu His Val Gln Tyr Ser Phe
 115 120 125
 Asp Asn Gly Phe Tyr Val Ala Ala Arg Tyr Arg Tyr Glu Tyr Thr Arg
 130 135 140
 Tyr Pro Ser Ser Ser Asn Lys Asp Asp Asp Lys Val Asn Arg Gly Asp
 145 150 155 160
 Ala Trp Val Gly Trp Val Leu Gly Asp Trp Arg Thr Glu Leu Asn Tyr
 165 170 175
 Val Tyr Ala Lys Ser Ser Glu Gly Val Ala Arg Asn Asn Asn Lys Asp
 180 185 190

Tyr Ser Asn Glu Tyr Asn Ala Lys Leu Ala Tyr Lys Trp Asp Lys Asn
 195 200 205
 Trp Ala Pro Tyr Val Glu Val Gly Asn Val Gly Val Lys Asp Thr Asp
 210 215 220
 Glu Arg Gln Thr Arg Phe Arg Leu Gly Val Ala Tyr Ser Phe
 225 230 235

<210> 6252

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 6252

Ser Arg Tyr Ile Met Arg Tyr Ser Pro Glu Ala Leu Thr Ala Phe Val
 1 5 10 15
 Glu Thr Val Ala Ala Gly Ser Phe Ser Ala Ala Ala Arg Arg Leu Arg
 20 25 30
 Lys Ser Gln Ser Thr Ile Ser Thr Ser Ile Ala Asn Leu Glu Ala Asp
 35 40 45
 Leu Gly Phe Glu Leu Phe Asp Arg Ser Ala Arg His Pro Val Leu Thr
 50 55 60
 Ala Gln Gly Glu Gln Val Leu Gly Tyr Val Gln Ser Ile Leu Ala Ala
 65 70 75 80
 Ser Ala Arg Leu Asp Glu Leu Ala Val Ser Leu Thr Ala Gln Lys Glu
 85 90 95
 Gly Pro Val Leu Thr Phe Val Leu Ser Asp Thr Leu
 100 105

<210> 6253

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 6253

Pro Ala Val Leu Glu Gln Met Met Ser Lys Phe Asp Gln Arg Phe Pro
 1 5 10 15
 His Thr Glu Phe Glu Cys Leu Ile Gly Glu Glu Glu Asp Val Ile Asp
 20 25 30
 Leu Leu Gln Lys Glu Arg Ala Gln Ile Gly Leu Thr Glu Ala Arg Asp
 35 40 45
 Ser Tyr Pro Thr Asp Ile Gly Ala Thr Arg Leu Pro Met Gln Thr Arg
 50 55 60
 Met Ala Ile Tyr Val Ser Ala Gly His Pro Leu Ala Gly Gln His Glu
 65 70 75 80
 Thr Gln Ala Asp Glu Leu His Gly Trp Arg Glu Leu Arg Leu Ser Thr
 85 90 95
 Tyr Leu Glu Arg Glu Ala Pro Leu Ala Arg Gly Pro Val Trp Ser Ala
 100 105 110
 Pro Asn Tyr Leu Leu Leu Ser Met Ala Val Gln Gly Phe Gly Trp
 115 120 125
 Cys Ala Leu Pro Cys Ala Leu Val Asp Glu Phe Ala Ala Ser Lys Ser
 130 135 140
 Leu Val Gln Leu Asn Val Pro Gly Trp Pro Arg Ser Ile Ala Ile Asp
 145 150 155 160
 Leu Val Trp Asn Lys Arg Thr Pro Pro Gly Val Ala Gly Ser Trp Leu
 165 170 175
 Arg Gln Tyr Leu Gln Asp Ala Arg
 180 185

<210> 6254

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 6254

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Tyr Val Ala Leu Met Ser Lys Ile Trp Ser Lys Glu Glu Thr Leu Trp
1      5      10      15
Ser Phe Ala Leu Tyr Gly Thr Ala Val Gly Ala Gly Thr Leu Phe Leu
      20      25      30
Pro Ile Gln Leu Gly Ser Ala Gly Ala Ile Val Leu Leu Ile Thr Ala
      35      40      45
Leu Val Ala Tyr Pro Leu Thr Tyr Trp Pro His Lys Ala Leu Ala Gln
      50      55      60
Phe Ile Leu Ser Ser Lys Thr Lys Gly Asn Ala Gly Ile Thr Ser Ser
65      70      75      80
Pro Ala Gly Ala Gly Arg Ile Gln Arg Asn Ala Tyr
      85      90

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<210> 6255

<211> 476

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (238)

<400> 6255

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Pro Val Thr Leu Thr Thr Leu Asn Thr Leu Ser Gly Lys Thr Arg Arg
1      5      10      15
Phe Asp Met Ala Tyr Gln Thr Val Asn Pro Ala Thr Asn Gln Leu Ile
      20      25      30
Lys Glu Tyr Pro Ser His Thr Asp Ala Asp Val Glu Ala Ala Leu Lys
      35      40      45
Ala Ala Asp Ala Leu Tyr His Ser Glu Trp Ala Lys Gly Asp Ile Ser
      50      55      60
Gln Arg Leu Pro Val Leu His Lys Leu Ala Asp Leu Ile Asp Glu Arg
65      70      75      80
Val Glu Asp Leu Ala Lys Ile Ala Ser Gln Glu Met Gly Lys Leu Ile
      85      90      95
Glu Gln Ser Arg Gly Glu Val Lys Leu Cys Ala Gln Ile Ala Arg Tyr
      100      105      110
Tyr Ala Asp Asn Ala Lys Gln Phe Leu Ala Pro Val Lys Tyr Asp Ser
      115      120      125
Glu Leu Gly Glu Ala Trp Val Glu His His Pro Ile Gly Val Leu Met
      130      135      140
Ala Val Glu Pro Trp Asn Phe Pro Tyr Tyr Gln Leu Met Arg Val Leu
145      150      155      160
Ala Pro Asn Leu Ala Ala Gly Asn Pro Val Ile Ala Lys His Ala Ser
      165      170      175
Ile Val Pro His Cys Ala Glu Thr Phe Ala Gln Leu Val Arg Glu Ser
      180      185      190
Gly Arg Pro Arg Lys Gly Ala Trp Thr Asn Leu Phe Ile Ser Ser Glu
      195      200      205
Gln Val Ala Asn Ile Ile Ala Asp Asp Arg Val Gln Gly Ala Ala Leu
      210      215      220
Thr Gly Ser Glu Lys Pro Gly Ser Val Val Ala Ala Gln Xaa Ala Lys
225      230      235      240
His Ile Lys Lys Ser Thr Leu Glu Leu Gly Gly Asn Asp Val Phe Val
      245      250      255
Val Leu Asp Asp Ala Glu Leu Glu Lys Ala Val Lys Ile Gly Val Asn
260      265      270

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Ala Arg Leu Asn Asn Ala Gly Gln Val Cys Thr Ala Ala Lys Arg Phe
 275 280 285
 Ile Leu His Glu Lys Ile Ala Asp Ala Phe Leu Ser Lys Phe Thr Glu
 290 295 300
 Ala Phe Lys Gln Val Lys Ile Gly Asp Pro Leu Asp Glu Ser Thr Thr
 305 310 315 320
 Leu Gly Pro Leu Ser Ser Lys Asp Ala Leu Glu Thr Leu Thr Lys Gln
 325 330 335
 Val Asn Glu Ala Val Lys Asn Gly Ala Lys Leu His His Gly Gly Lys
 340 345 350
 Pro Val Gln Arg Asp Gly Ser Phe Phe Glu Pro Thr Ile Leu Thr Asn
 355 360 365
 Ile Ser Arg Asp Asn Pro Ala Tyr Phe Glu Glu Phe Gly Pro Val
 370 375 380
 Ala Gln Ile Tyr Val Val Lys Asn Asp Asp Glu Ala Val Ala Leu Ala
 385 390 395 400
 Asn Asp Ser His Tyr Gly Leu Gly Gly Ala Val Phe Ser Gln Asn Ile
 405 410 415
 Glu Arg Ala Lys Lys Met Ala Ser Arg Ile Glu Thr Gly Met Val Tyr
 420 425 430
 Ile Asn Trp Leu Thr Asp Thr Ala Ala Glu Leu Pro Phe Gly Gly Val
 435 440 445
 Lys Arg Ser Gly Tyr Gly Arg Glu Leu Ser Asp Leu Gly Ile Lys Glu
 450 455 460
 Phe Val Asn Gln Lys Leu Val Val Arg Lys
 465 470 475

<210> 6256

<211> 621

<212> PRT

<213> Enterobacter cloacae

<400> 6256

Ile Gly Arg Arg Asn Met Ala Ile Ile Ile Pro Thr Val Ser Ser Cys
 1 5 10 15
 Ser Glu Lys Ile Thr Ala Gly Glu Lys Arg Leu Ala Arg Leu Leu Glu
 20 25 30
 Gly Gly Leu Ser Glu Gln Cys Thr Cys Trp Tyr Asp Thr Arg Met Gly
 35 40 45
 Asp Lys Asp Asp His Pro Asp Phe Val Ile Leu Ala Pro Asp Lys Gly
 50 55 60
 Leu Leu Phe Ile Glu Val Lys Asp Trp Tyr Ile Thr Lys Ile Lys Ser
 65 70 75 80
 Ala Asn Lys Thr His Ile Asn Tyr Glu Thr Lys Asn Gly Ile Glu Pro
 85 90 95
 Leu Lys Asn Pro Leu Glu Gln Val Arg Gln Tyr Thr Phe His Ile Ile
 100 105 110
 Asn Ser Leu Lys Lys Asp Pro Leu Leu Arg Gln Lys Gln Gly Asp His
 115 120 125
 Glu Gly Gly Phe Ile Met Pro Tyr Gly Tyr Gly Val Tyr Leu Ser Asn
 130 135 140
 Ile Thr Arg Ala Gln Leu Glu Lys Ser Phe Thr Pro Glu Glu Leu Asn
 145 150 155 160
 Glu Ile Leu Pro Ala Ser Gln Val Ile Cys Lys Asp Glu Leu Asn Glu
 165 170 175
 Phe Met Thr Arg Glu Gln Ile Ser Gly Arg Leu Glu Ser Leu Leu Lys
 180 185 190
 His His Phe Val His Asn Thr Thr Pro Gln Gln Leu Asp Arg Ile Arg
 195 200 205
 Trp His Leu Tyr Pro Asp Val Arg Ile Asn Pro Ser Val Thr Arg Val
 210 215 220

Gly Leu Asp Asn Phe Thr Phe His Thr Pro Asp Val Val Cys Met Met
 225 230 235 240
 Asp Arg Asn Gln Glu Gln Leu Ala Arg Ser Met Gly Ala Gly His Arg
 245 250 255
 Val Ile His Gly Val Ala Gly Ser Gly Lys Thr Leu Ile Leu His His
 260 265 270
 Arg Cys Ile Glu Leu Ala Asn Asn Ile Glu Asn Thr Lys Pro Ile Leu
 275 280 285
 Val Ile Cys Tyr Asn Ile Thr Leu Ala Lys Lys Leu Lys Ala Gln Leu
 290 295 300
 Glu Gln His Ser Leu Arg Leu Pro Val Glu Val Ile His Phe His Ala
 305 310 315 320
 Trp Cys Tyr Gln Gln Leu Asn Ala His Arg Arg Leu Pro Pro Arg Ser
 325 330 335
 Lys Asn Phe Ile Glu Leu Met Glu Asn Ala Leu Thr Val Ala Phe Glu
 340 345 350
 Glu Gly Ala Ile Thr Pro Glu Gln Tyr Ser Ala Val Leu Ile Asp Glu
 355 360 365
 Gly His Asp Phe Lys Pro Glu Trp Leu Arg Ile Leu Ala Lys Met Pro
 370 375 380
 Asp Asn Lys Asp Ser Ser Leu Leu Phe Leu Tyr Asp Asp Ala Gln Ser
 385 390 395 400
 Ile Tyr Gln Lys Lys Lys Ala Leu Asp Phe Thr Leu Ser Ser Val Asp
 405 410 415
 Ile Lys Ala Gln Gly Arg Thr Thr Ile Leu Asp Thr Asn Tyr Arg Asn
 420 425 430
 Thr Arg Gln Ile Leu His Phe Ala Ser Ser Val Pro Phe Asn Tyr Leu
 435 440 445
 Asn Asn His Ile Glu Ala Ser Leu Lys Tyr Gln Gln Pro Ala Ala Gly
 450 455 460
 Gly Leu Ser Gly Lys Tyr Pro Ala Leu Ala Ser Phe Asp Asn Gln Asp
 465 470 475 480
 Glu Glu Ile Thr Arg Val Leu Asp Trp Val Thr Glu Gln Arg Gln Glu
 485 490 495
 Gly Val Ala Trp Ser Glu Ile Ala Ile Leu Cys Pro Ser Thr Tyr Ser
 500 505 510
 Ile Ser Gly Met Leu Ala Pro Arg Leu Glu Ala Arg Lys Ile Pro Tyr
 515 520 525
 Gln Met Ile Val Ser Ser Asp Asp Lys Lys His Trp Ser Pro Gln Asn
 530 535 540
 Asp Tyr Leu Cys Val Met Pro Leu Pro Ser Ser Lys Gly Leu Glu Phe
 545 550 555 560
 Asn Ser Val Ala Ile Met Asp Ala Ala Lys Glu Arg Asp Ser Glu Asp
 565 570 575
 Leu Ser Asp Asp Ile Lys Arg Leu Tyr Val Gly Ile Thr Arg Ala Arg
 580 585 590
 Gln Asn Leu Leu Val Thr Met His Gly Thr Gly Ser Leu Arg Asp His
 595 600 605
 Leu Val Glu Thr Trp Glu Lys Ser Val Lys Ser Ile
 610 615 620

<210> 6257

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 6257

Phe Asp Asp Glu Glu Thr Arg Met Lys Lys Leu Asn Val Leu Ile Leu
 1 5 10 15
 Ser Ala Leu Thr Ala Val Ser Gly Ser Ala Leu Ala Met Gly Gly Ser
 20 25 30

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Ile Glu Gln Gly Lys Asn Phe Thr Asn Leu Asn Val Glu Met Gly Lys
   35                               45
Ser Thr Ser Gly Leu Tyr Thr Glu Gly Asn Trp Leu Lys Asn Thr Asp
   50                               60
Asp Gly Thr Thr Thr Gly Gly Val Gly Ala Gly Tyr Asn Phe Glu Val
   65                               75
Gly Pro Val Met Leu Asn Ala Gly Ala Lys Ala Leu Tyr Val Gly Pro
   85                               90
Lys Lys Gly Asp Asn Gly Val Ala Phe Pro Val Gly Gly Gly Val Asn
  100                               105
Val Ala Leu Thr Asp Ser Ile Arg Val Phe Gly Glu Gly Tyr Val Ala
  115                               120
Pro Asp Gly Leu Asn Asn Ser Val Lys Asn Tyr Val Glu Ala Asn Gly
  130                               135
Gly Val Ser Trp Thr Pro Val Lys Pro Val Thr Leu Lys Val Gly Tyr
  145                               155
Arg His Val Ser Val Asp Gly Lys Asp Gly Arg Pro Asn His Thr Leu
  165                               170
Val Asp Gly Ala Tyr Phe Gly Gly Gly Val Ser Phe
  180                               185

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<210> 6258

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 6258

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Gly Ile Leu Gln Met Ala Lys Ile Lys Gly Gln Val Lys Trp Phe Asn
   1                               15
Glu Ser Lys Gly Phe Gly Phe Ile Thr Pro Ala Asp Gly Ser Lys Asp
  20                               25
Val Phe Val His Phe Ser Ala Ile Gln Gly Asn Gly Phe Lys Thr Leu
  35                               40
Ala Glu Gly Gln Asn Val Glu Phe Glu Ile Gln Asp Gly Gln Lys Gly
  50                               60
Pro Ala Ala Val Asn Val Thr Ala Ile
  65                               70

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<210> 6259

<211> 593

<212> PRT

<213> Enterobacter cloacae

<400> 6259

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Ile Arg Ala Leu Ile Asn Ser Pro Gly Val Lys Val Lys Lys Thr
   1                               15
Ile Thr Thr Thr Gly Asn Phe Thr Pro Ala Arg Phe Ala Leu Leu Cys
  20                               25
Leu Ala Ile Phe Cys Ser Leu Ala Phe Leu Leu Gly Arg Val Ala Trp
  35                               40
Leu Gln Ile Ile Lys Pro Asp Asn Leu Val Lys Gln Glu Asp Met Arg
  50                               55
Ser Leu Arg Glu Val Ala Ile Asp Ala Pro Arg Gly Met Ile Val Asp
  65                               70
Arg Glu Gly Arg Pro Leu Ala Val Ser Val Pro Val Gln Ala Val Trp
  85                               90
Ala Asp Pro Lys Thr Val Leu Glu Lys Gly Gly Ile Gly Tyr Asp Ser
  100                               105
Arg Trp Gln Ala Leu Ala Asn Ala Leu His Leu Ser Leu Ser Thr Leu
  115                               120
Ala Ser Arg Ile Asn Ser Asn Pro His Gly Arg Phe Ile Tyr Leu Ala

```

130		135		140	
Arg Gln Val Asp Pro Ser	Gln Ala Lys Trp Ile	Asp Lys Leu Arg Leu			
145	150	155	160		
Pro Gly Ile Asn Leu Arg	Asp Glu Ser Arg Arg	Phe Tyr Pro Ala Gly			
	165	170	175		
His Val Ala Ala Asn Leu	Ile Gly Phe Thr Asn	Ile Asp Gly Gln Gly			
	180	185	190		
Ile Glu Gly Val Glu Lys	Ser Phe Asn Thr Gln	Leu Thr Gly Lys Ala			
	195	200	205		
Gly Val Arg Leu Val Arg	Lys Asp Arg Tyr Gly	His Val Val Glu Asn			
	210	215	220		
Leu Thr Glu Val Ala Pro	Val Pro Ala His Asn	Ile Gln Leu Ser Ile			
	225	230	235		240
Asp Glu Arg Leu Gln Thr	Ile Thr Glu Asp Ala	Leu Asp Asn Ala Val			
	245	250	255		
Ala Trp Asn Lys Ala Glu	Ser Gly Ala Ser Val	Leu Ile Asn Ile Gln			
	260	265	270		
Thr Gly Glu Ile Leu Ala	Met Ala Ser Phe Pro	Asp Phe Asn Pro Asn			
	275	280	285		
Asn Arg Glu Gly Ala Thr	Leu Asp Asp Phe Arg	Asn Arg Ala Ile Ser			
	290	295	300		
Asp Thr Phe Glu Pro Gly	Ser Thr Val Lys Pro	Leu Val Leu Met Thr			
	305	310	315		320
Ala Leu Gln Gln Gly Leu	Val Gln Pro Asp Ser	Val Ile Asp Thr His			
	325	330	335		
Pro Tyr Thr Ile Asp Gly	His Arg Ile Arg Asp	Val Gly Tyr Tyr Pro			
	340	345	350		
Glu Leu Thr Met Thr Gly	Ile Leu Gln Lys Ser	Ser Asp Thr Gly Val			
	355	360	365		
Ser Arg Leu Ser Leu Ala	Met Pro Val Gln Arg	Leu Leu Asp Thr Tyr			
	370	375	380		
Lys His Phe Gly Phe Gly	Glu Ser Thr Gly Leu	Gly Leu Thr Gly Glu			
	385	390	395		400
Ser Ala Gly Leu Leu Pro	Gln Arg Lys Phe Trp	Ser Gln Leu Asp Arg			
	405	410	415		
Ala Thr Phe Ala Phe Gly	Tyr Gly Leu Met Val	Thr Pro Leu Gln Leu			
	420	425	430		
Ala His Val Tyr Ala Thr	Ile Gly Ser Tyr Gly	Ile Glu Arg Pro Leu			
	435	440	445		
Ser Ile Thr Arg Ile Asp	Pro Pro Val Ile Gly	Lys Arg Val Met Pro			
	450	455	460		
Glu Glu Ile Val His Glu	Val Glu His Met Met	Glu Ser Val Ala Leu			
	465	470	475		480
Pro Gly Gly Gly Gly Ile	Lys Ala Ala Val Arg	Asn Tyr Arg Val Ala			
	485	490	495		
Ile Lys Thr Gly Thr Ala	Lys Lys Ile Asp Glu	His Gly Lys Tyr Val			
	500	505	510		
Asp Lys Tyr Val Ala Tyr	Thr Ala Gly Val Ala	Pro Ala Ser Asp Pro			
	515	520	525		
Arg Phe Ala Leu Val Val	Val Ile Asn Asp Pro	Gln Asn Gly Ala Tyr			
	530	535	540		
Tyr Gly Gly Ala Val Ser	Ala Pro Val Phe Ser	Glu Ile Met Gly Asn			
	545	550	555		560
Val Leu Arg Leu Glu Asn	Val Lys Pro Asp Gly	Leu Pro Ala Asp Ser			
	565	570	575		
Asp His Leu Ile Val Met	His His Pro Ala Val	Tyr Asn Pro Gly Glu			
	580	585	590		

<211> 285
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6260

```

Arg Tyr Thr Ser Pro Phe Gly Leu Arg Pro Gly Ala Val Met Ser Phe
1      5      10      15
Ser Cys Pro Leu Cys His Ala Pro Leu Thr Arg Ala Glu Lys Thr Phe
20     25     30
Ile Cys Pro Gln Gly His Gln Phe Asp Arg Ala Lys Glu Gly Tyr Val
35     40     45
Asn Leu Leu Pro Val Gln His Lys Arg Ser Arg Asp Pro Gly Asp Ser
50     55     60
Ala Glu Met Met Gln Ala Arg Arg Ala Phe Leu Asp Ala Gly His Tyr
65     70     75     80
Gln Pro Leu Arg Asp Ala Val Val Ala Leu Leu Arg Glu Tyr Leu Thr
85     90     95
Glu Gly Ala Ser Ala Met Leu Asp Ile Gly Cys Gly Glu Gly Tyr Tyr
100    105    110
Thr Ala Thr Phe Ala Asp Val Ala Ala Glu Lys Gly Ala Glu Thr Tyr
115    120    125
Gly Leu Asp Val Ser Lys Val Ala Ile Arg Ala Ala Lys Arg Tyr
130    135    140
Ser Ala Val Thr Phe Cys Val Ala Ser Ser His Arg Leu Pro Phe Glu
145    150    155    160
Glu Ala Ser Met Asp Ala Val Val Arg Ile Tyr Ala Pro Cys Lys Ala
165    170    175
Glu Glu Leu Ala Arg Val Val Lys Pro Gly Gly Trp Val Ile Thr Val
180    185    190
Thr Pro Gly Pro Arg His Leu Leu Glu Leu Lys Gly Leu Ile Tyr Asp
195    200    205
Glu Val His Leu His Ala Pro His Ser Glu Gln Leu Ala Gly Phe Ala
210    215    220
Leu Lys Gln Ala Gln Ser Thr Ala Tyr Glu Met Thr Leu Gln Gly Ser
225    230    235    240
Glu Ala Val Ala Leu Leu Gln Met Thr Pro Phe Ala Trp Arg Ala Lys
245    250    255
Pro Glu Val Trp Glu Thr Leu Ala Ala Gln Thr Glu Phe Arg Cys Gln
260    265    270
Thr Asp Phe Ser Ile His Cys Trp Gln Arg Glu Gly
275      280      285

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<210> 6261
 <211> 141
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6261

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Asn Ser Ile Pro Arg Pro Arg Leu Arg Leu Leu Phe Asn Ala Val Arg
1      5      10      15
Leu Leu Thr Arg Tyr Tyr Gly Val Ala Tyr Gly Tyr Arg Lys Gly Val
20     25     30
Asp Ile Val Lys Asp Met Gly Gly Phe Leu Gln Lys Leu Thr Glu
35     40     45
Gly Ala Ser Ile Leu Gly Leu Phe Val Met Gly Ala Leu Val Asn Lys
50     55     60
Trp Thr His Val Asn Ile Pro Leu Val Val Ser Thr Ile Thr Gly Gln
65     70     75     80
Asp Gly Gln Thr Arg Val Thr Thr Val Gln Thr Ile Leu Asp Gln Leu
85     90     95
Met Pro Gly Leu Val Pro Leu Leu Leu Thr Phe Ala Cys Met Trp Leu

```

100 105 110
 Leu Arg Lys Lys Val Asn Pro Leu Trp Ile Ile Val Gly Phe Phe Val
 115 120 125
 Ile Gly Ile Ala Gly Tyr Ala Val Gly Leu Leu Gly Leu
 130 135 140

<210> 6262
 <211> 153
 <212> PRT
 <213> Enterobacter cloacae

<400> 6262
 Met Thr Val Thr Asp Thr Val Leu Val Leu Phe Ile Val Ala Leu Leu
 1 5 10 15
 Ala Tyr Ala Ile Tyr Asp Glu Phe Ile Met Pro Arg Arg His Gly Glu
 20 25 30
 Thr Leu Leu Thr Leu Pro Leu Leu Arg Arg Gly Arg Ile Asp Ala Phe
 35 40 45
 Ile Phe Ala Gly Leu Val Val Ile Leu Ile Tyr Asn Asn Val Thr Ser
 50 55 60
 His Gly Ala Ile Leu Thr Thr Trp Leu Leu Cys Ala Leu Ala Leu Met
 65 70 75 80
 Ala Ile Tyr Leu Phe Trp Ile Arg Ser Pro Lys Leu Ile Phe Lys Lys
 85 90 95
 His Gly Phe Phe Phe Ala Asn Val Trp Ile Glu Tyr Asn Arg Ile Lys
 100 105 110
 Glu Met Asn Leu Ser Glu Asp Gly Val Leu Val Met Gln Leu Glu Gln
 115 120 125
 Arg Arg Leu Leu Ile Arg Val Arg Asn Ile Asp Asp Leu Glu Lys Ile
 130 135 140
 Tyr Lys Leu Leu Val Lys Thr Gln
 145 150

<210> 6263
 <211> 258
 <212> PRT
 <213> Enterobacter cloacae

<400> 6263
 Gly Cys Ala Arg Arg Trp Gly Val Ala Asp Phe Leu Pro Ala Gly Asn
 1 5 10 15
 Val Arg Val Asn Ile Leu Val Glu Lys Arg Gly Ala Tyr Gly Ser Phe
 20 25 30
 Leu Ser Thr Ile Thr Val Pro Glu Ala Ile Arg Arg Asp His Arg Tyr
 35 40 45
 Ile Asn Cys Cys Leu Leu Gly Ala Val Met Cys His Met Asp Ile Pro
 50 55 60
 Gly Leu Asp Ala Leu Met Asn Ile Ser Ala Thr Ile Leu Leu Ala Phe
 65 70 75 80
 Gly Met Ser Met Asp Ala Phe Ala Ala Ser Ile Gly Lys Gly Ala Thr
 85 90 95
 Leu His Lys Pro Lys Phe Ser Glu Ala Leu Arg Thr Gly Leu Ile Phe
 100 105 110
 Gly Ala Ile Glu Thr Leu Thr Pro Leu Ile Gly Trp Gly Leu Gly Met
 115 120 125
 Leu Ala Ser Gln Phe Val Leu Glu Trp Asn His Trp Ile Ala Phe Val
 130 135 140
 Leu Leu Val Phe Leu Gly Gly Arg Met Val Ile Glu Gly Phe Arg Gly
 145 150 155 160
 Asn Gly Asp Glu Asp Asp Ala Pro Leu Gln Arg His Gly Phe Trp Leu
 165 170 175

Thr Leu Glu Thr Gln Asp Pro Ala Gly Asn Arg Val Ala Gly Asp Ala
 690 695 700
 Pro Ser Tyr Asp Ile Asn Leu Met Ile Pro Ile Ser Thr Gln Pro Ser
 705 710 715 720
 Ile Asn Ser Val Val Asp Asn Ser Glu Pro His Val Gly Pro Leu Gln
 725 730 735
 Lys Gly Asp Ala Thr Asn Asp Thr Thr Pro Thr Leu Ser Gly Ser Ala
 740 745 750
 Ala Pro Gly Asp Ile Val Ser Ile Leu Asp Asn Gly Lys Val Ile Gly
 755 760 765
 Ser Val Thr Ala Asp Ser Asn Gly Lys Trp Thr Phe Thr Pro Asp Ala
 770 775 780
 Ala Leu Ala Asp Gly Lys His Tnr Phe Thr Val Thr Ala Thr Asp Ala
 785 790 795 800
 Ala Gly Asn Ser Arg Thr Ser Gly Ser Phe Pro Ile Val Ile Asp Thr
 805 810 815
 Ala Ala Pro Ser Pro Ala Glu Asn Ile Val Ile Asn Asp Asn Val Gly
 820 825 830
 Asp Lys Gln Gly Pro Val Gly Ser Gly Asp Thr Thr Asp Asp Gln Ser
 835 840 845
 Pro Thr Leu Ser Gly Glu Ala Glu Pro Gly Ser Val Val Asp Ile Tyr
 850 855 860
 Asp Asn Asp Glu Lys Ile Gly Ser Val Ile Val Asp Asp Glu Gly Lys
 865 870 875 880
 Trp Ser Tyr Thr Pro Asp Lys Pro Leu Asp Lys Gly Asp His Glu Ile
 885 890 895
 Thr Thr Thr Val Thr Asp Pro Ser Gly Asn Thr Ser Glu Pro Ser Pro
 900 905 910
 Gly Ile Ser Phe Thr Val Asp Pro Asp Pro Asn Gln Val Thr Val Gly
 915 920 925
 Glu Val Val Asp Asp Gln Gly Pro Ile Val Gly Asn Leu Lys Pro Gly
 930 935 940
 Thr Val Thr Asp Asp Val Arg Pro Glu Leu Ser Gly Lys Gly Lys Pro
 945 950 955 960
 Gly Ser Thr Val Thr Ile Lys Asp Gly Asp Asp Val Leu Gly Ser Thr
 965 970 975
 Val Val Asp Pro Asp Gly Asn Trp Thr Phe Thr Pro Glu Gln Asp Leu
 980 985 990
 Ala Asp Gly Asn His Ser Leu Thr Val Val Ser Lys Asp Pro Ala Gly
 995 1000 1005
 Asn Glu Val Thr Ser Pro Ser Phe Asp Ile Thr Val Asp Ala Thr Ala
 1010 1015 1020
 Pro Glu Lys Pro Val Leu Gly Ser Ala Thr Asp Asp Val Gly Thr Ile
 1025 1030 1035 1040
 Arg Gly Asp Leu Ser Asn Gly Ser Thr Thr Asp Asp Ala Asn Pro Thr
 1045 1050 1055
 Phe Asn Gly Ser Ala Glu Pro Gly Ile His Gln Leu Val Lys Arg Phe
 1060 1065 1070
 Gln Gly Arg Phe Gly Met Leu Ile Thr Gln Arg Gln Pro Asp Asn Gly
 1075 1080 1085
 Cys Gln Arg Gly Glu Arg Thr Ala Gly Lys Asp His Tyr Ala Asn His
 1090 1095 1100
 Gly Ala His Arg Glu Leu Ala Arg Val Asp Gln Ile His Thr Gln His
 1105 1110 1115 1120
 Asn Asn Thr Asp Arg Gly Asn Leu Leu Asn Glu Gly Asp Lys Ile Gly
 1125 1130 1135
 Ser Gln His Gly Lys Val Ala Gly Phe His Gly Gly Ser Gly Ser Gln
 1140 1145 1150
 Arg Ala Glu Ile Ile Pro Ala Leu Leu His Asn Ala Phe Thr Leu Arg
 1155 1160 1165
 Ser Phe Gln Gly Phe Lys Ser Leu Asn Ala Phe Asn Gln Gln Ala Leu

1170 1175 1180
 Leu Glu Arg Asn Leu Ala Asn Val Phe Phe His Ile Ala Thr Gln Arg
 1185 1190 1195 1200
 Pro Leu Asn Asn Asp Ala Gly Asn
 1205

<210> 6266
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 6266
 Asn Lys Cys Val Cys Pro Ser Phe Arg Thr Glu Gln Gln Gly Glu Cys
 1 5 10 15
 Asn Gly Ser Glu Phe Tyr Ile Trp Pro Glu Asn Asn Ser Phe Leu Ile
 20 25 30
 Glu Gly Ile Leu Gln Tyr Phe Asn Asn Ile Thr Val Lys Ile Ile Ser
 35 40 45
 Gln Pro Ile Val Val Ile Asp Phe Asn Tyr Lys Asn Ile Asn Phe Phe
 50 55 60
 Leu Thr Asn Ser Trp Leu Asp Arg Phe Lys Asn Ala Arg Leu Ile Leu
 65 70 75 80
 Ile Thr Asp Lys Lys Met Ala Ala Ile Ala His Tyr Trp Phe Tyr Asn
 85 90 95
 Asp Thr Ser Glu Thr Ile Ile Ser Thr Val Ile Phe His Asp Asp Ile
 100 105 110
 Ile Asp Asp Ile Lys Phe Lys Ile Arg Gln Ser Phe Leu Gly Lys Ile
 115 120 125
 Thr Arg Pro Ser Glu Lys Lys Ala Lys Leu Ser Ala Asn Glu Tyr Ala
 130 135 140
 Leu Phe Ser Glu Leu Tyr Lys Gly Gln Leu Pro Lys Lys Ile Ala Met
 145 150 155 160
 Lys Asn Ala Thr Asn Val Lys Asn Ile Tyr Ala Met Lys Ile Arg Ile
 165 170 175
 Glu Asn Lys Leu Gly Val Pro Ile Ser Arg Leu Ala Ser
 180 185 190

<210> 6267
 <211> 602
 <212> PRT
 <213> Enterobacter cloacae

<400> 6267
 Lys Asn Ile Asn Leu Asp Gln Ser Thr Tyr Asn Ile Leu Asn His Ala
 1 5 10 15
 Val Val Tyr Leu Tyr Cys Val His Ile Arg Leu Thr Leu His Tyr Asp
 20 25 30
 Ile Ala Ser Ala Cys Asn Phe Thr Ile Thr Ile Ser His Lys Leu Arg
 35 40 45
 Thr Tyr Gly Cys Ser Trp Ser Ile Leu Ile Ala Cys Leu His Phe Ile
 50 55 60
 Phe Lys Val Arg Asn Val Thr Thr Gly Leu Asp Ser Ile Met Asn Thr
 65 70 75 80
 His Leu Ser Thr Val Lys Phe Asn Ser Glu His Asp Phe Asn Asn Ile
 85 90 95
 Glu Glu Pro Arg Lys Asp Ser Leu Leu Trp Gly Val Glu Trp Leu Cys
 100 105 110
 Ala His His Ala Lys Tyr Ala Ser Lys Glu Val Leu Tyr Ala Gly Leu
 115 120 125
 Pro Lys Ser Asp Lys Leu Glu Pro Glu Met Ala Leu Arg Met Leu Asp
 130 135 140

<212> PRT

<213> *Enterobacter cloacae*

<400> 6268

```

Lys Thr Ala Ala Leu Pro Gly Ala Gln Gly Gly Arg Met Ser Ala Phe
1      5      10      15
Ala Arg Arg Leu Glu Thr Leu His Ala Thr Arg Pro Val Thr Val Leu
20      25      30
Gly Ala Ala Val Ile Asp Val Ile Ala Asp Ala Tyr Ala Leu Pro Trp
35      40      45
Arg Gly Cys Asp Ile Glu Leu Lys Gln Gln Gly Val Asn Ile Gly Gly
50      55      60
Cys Ala Leu Asn Ile Ala Ile Ala Leu Lys Arg Leu Gly Ile Ala Ala
65      70      75      80
Gln Asn Ala Leu Pro Val Gly His Gly Val Trp Ala Asp Ile Ile Arg
85      90      95
Asn Ala Met Ala Lys Gln Asp Leu His Ser Ala Val Glu Ala Glu Thr
100     105     110
Gly Asp Asn Gly Trp Cys Leu Ala Leu Val Glu Pro Asp Gly Glu Arg
115     120     125
Thr Phe Met Ser Phe Ser Gly Val Glu Asn Gln Trp Gln Gln Arg Trp
130     135     140
Leu Asp Gly Leu Ser Val Pro Ala Gly Ser Leu Ile Ser Leu Ser Gly
145     150     155     160
Tyr Gln Leu Ala Ser Pro Ser Gly Glu Leu Leu Thr Ala Trp Leu Glu
165     170     175
Ser Leu Gln Asp Ala Thr Leu Phe Ile Asp Phe Gly Pro Arg Ile Ala
180     185     190
Asp Ile Pro Asp Pro Leu Met Ala Arg Ile Met Ala Cys Lys Pro Ile
195     200     205
Val Ser Leu Asn Arg Gln Glu Ala Glu Leu Ala Ala Glu Trp Leu Gly
210     215     220
Val Ser Val Glu Glu Leu Gly Thr Arg Trp Gln Gln Arg Phe Gly Ala
225     230     235     240
Ala Leu Ile Ile Arg His Asp Lys Asp Gly Ala Val Trp Tyr Asp Gly
245     250     255
Asp Ala Ser Gly His Val Pro Ala Phe Pro Ala Thr Val Val Asp Thr
260     265     270
Ile Gly Ala Gly Asp Ser His Ala Gly Gly Thr Leu Ala Gly Leu Ala
275     280     285
Ala Gly Trp Ser Leu Pro Glu Ala Val Gln Leu Gly Asn Ala Val Ala
290     295     300
Ala Trp Val Val Ser His Arg Gly Gly Asp Cys Ala Pro Thr Arg Glu
305     310     315     320
Ala Leu Leu Leu Ala His Lys Asp Val
325     330

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<210> 6269

<211> 335

<212> PRT

<213> *Enterobacter cloacae*

<400> 6269

```

Met Lys Gln Asp Arg Ile Leu Gly Ala Leu Tyr Gly Gln Ala Leu Gly
1      5      10      15
Asp Ala Met Gly Met Pro Ser Glu Leu Trp Pro Arg Lys Arg Val Lys
20      25      30
Ala His Phe Gly Trp Ile Asp Arg Phe Leu Pro Gly Pro Ala Glu Asn
35      40      45
Asn Ala Ala Cys Tyr Phe Lys Gln Ala Glu Phe Thr Asp Asp Thr Ser
50      55      60

```

of π is given by the following theorem.

<400> 6270

1	Phe	Ile	Trp	5	Ala	Trp	Phe	Val	10	Pro	Leu	Trp	Leu	Trp	Met	Ser
15	Ser	Gly	Phe	20	Thr	Ala	Gly	Glu	25	Ile	Gly	Trp	Ser	Tyr	Ala	Cys
30	Ala	Ile	Ala	35	Ala	Ile	Leu	Ser	40	Ile	Met	Val	Gly	Ser	Leu	Thr
45	Arg	Phe	Phe	50	Ala	Gln	Lys	Val	55	Leu	Ala	Val	Leu	Met	Phe	Ala
60	Ala	Ile	Leu	65	Met	Tyr	Phe	Ala	70	Gln	Gln	Ile	Gln	Phe	Ser	Thr
75	Phe	Pro	Leu	80	Leu	Leu	Ala	Tyr	85	Ser	Leu	Thr	Tyr	Met	Pro	Thr
90	Leu	Thr	Asn	95	Ser	Ile	Ala	Phe	100	Ala	Asn	Val	Asp	Asp	Val	Glu
105	Phe	Pro	Arg	110	Ile	Arg	Val	Met	115	Gly	Thr	Ile	Gly	Trp	Ile	Ala
120	Leu	Ala	Cys	125	Gly	Phe	Leu	Pro	130	Gln	Met	Met	Gly	Tyr	Ser	Asp
135	Asp	Thr	Asn	140	Ile	Pro	Leu	Leu	145	Met	Thr	Ala	Ala	Ser	Ser	Leu
150				155					160							

Gly Val Phe Ala Leu Phe Leu Pro Asn Thr Pro Pro Lys Ser Thr Gly
 165 170 175
 Lys Leu Asp Phe Lys Val Met Leu Gly Leu Asp Ala Leu Ile Leu Leu
 180 185 190
 Arg Asp Lys Asn Phe Leu Val Phe Phe Cys Ser Phe Leu Phe Ala
 195 200 205
 Met Pro Leu Ala Phe Tyr Tyr Ile Phe Ala Asn Gly Tyr Leu Thr Glu
 210 215 220
 Val Gly Met Lys Asn Ala Thr Gly Trp Met Thr Leu Gly Gln Phe Ser
 225 230 235 240
 Glu Ile Phe Phe Met Leu Ala Leu Pro Phe Phe Thr Lys Arg Phe Gly
 245 250 255
 Ile Lys Lys Val Leu Leu Leu Gly Leu Ile Thr Ala Ala Ile Arg Tyr
 260 265 270
 Gly Phe Phe Val Tyr Gly Gly Ala Glu Gln Tyr Phe Thr Tyr Ala Leu
 275 280 285
 Leu Phe Leu Gly Ile Leu Leu His Gly Val Ser Tyr Asp Phe Tyr Tyr
 290 295 300
 Val Thr Ala Tyr Ile Tyr Val Asp Lys Lys Ala Pro Val His Met Arg
 305 310 315 320
 Asn Ala Ala Gln Gly Leu Ile Thr Leu Cys Cys Gln Gly Phe Gly Ser
 325 330 335
 Leu Leu Gly Tyr Arg Leu Gly Gly Val Met Met Glu Lys Met Phe Ala
 340 345 350
 Tyr Lys Glu Pro Val Asn Gly Leu Thr Phe Asn Trp Ala Gly Met Trp
 355 360 365
 Thr Phe Gly Ala Ile Met Ile Val Val Ile Ala Val Leu Phe Met Leu
 370 375 380
 Phe Phe Arg Glu Ser Asp Lys Glu Ile Thr Ala Ile Glu Val Val Asp
 385 390 395 400
 Gly Asp Thr Ala Leu Thr Arg Gly Glu Val Lys
 405 410

<210> 6271

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 6271

Thr Thr Tyr Pro Phe Gly Ser Trp Pro Ala Ser Arg Cys Val Lys Thr
 1 5 10 15
 Leu Cys Leu Arg Val Ser Gly Arg Ala Leu Arg Ala Gly Gly Thr Gly
 20 25 30
 Met Thr Arg Ile Asn Ala Leu Thr Ile Ala Gly Thr Asp Pro Ser Gly
 35 40 45
 Gly Ala Gly Ile Gln Ala Asp Leu Lys Thr Phe Ser Ala Leu Gly Ala
 50 55 60
 Tyr Gly Cys Ser Val Ile Thr Ala Leu Val Ala Gln Asn Thr Arg Gly
 65 70 75 80
 Val Gln Ser Val Tyr Arg Ile Glu Pro Asp Phe Val Ala Ala Gln Leu
 85 90 95
 Asp Ser Val Phe Ser Asp Val Arg Ile Asp Thr Thr Lys Ile Gly Met
 100 105 110
 Leu Ala Glu Ala Asp Ile Val Glu Ala Val Ala Glu Arg Leu Lys Arg
 115 120 125
 Tyr Gln Ile Lys Asn Val Val Leu Asp Thr Val Met Leu Ala Lys Ser
 130 135 140
 Gly Asp Pro Leu Leu Ser Ala Ser Ala Val Asp Thr Leu Arg Lys Lys
 145 150 155 160
 Leu Leu Pro Gln Val Ala Leu Ile Thr Pro Asn Leu Pro Glu Ala Ala
 165 170 175

Ala Leu Leu Asp Ala Pro His Ala Gln Asn Glu Arg Glu Met Lys Glu
 180 185 190
 Gln Gly Asn Ala Leu Leu Ala Met Gly Cys Arg Ala Val Leu Met Lys
 195 200 205
 Gly Gly His Leu Asp Asp Ala Glu Ser Pro Asp Trp Leu Phe Thr His
 210 215 220
 Asp Gly Ala Gln Arg Phe Thr Ala Pro Arg Val Gln Thr Lys Asn Thr
 225 230 235 240
 His Gly Thr Gly Cys Thr Leu Ser Ala Ala Leu Ala Ala Leu Arg Pro
 245 250 255
 Arg Asn Ala Asn Trp Ala Asp Thr Val Gln Glu Ala Lys Ile Trp Leu
 260 265 270
 Ser Asp Ala Leu Ala Lys Ala Asp Ser Leu Glu Val Gly His Gly Ile
 275 280 285
 Gly Pro Val His His Phe His Ala Trp Trp
 290 295

<210> 6272

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 6272

Ala Val Tyr Trp His Lys Thr Leu Cys Gln Arg Lys Thr Glu Met Glu
 1 5 10 15
 Gln Ala His Thr Arg Leu Ile Ala Gln Leu Lys Glu Arg Ile Ala Ala
 20 25 30
 Pro Asp Asn Thr Pro Leu Tyr Leu Lys Phe Ala Glu Thr Val Lys Asn
 35 40 45
 Ala Val Arg Ser Gly Val Leu Ala His Gly Asn Ile Leu Pro Gly Glu
 50 55 60
 Arg Asp Leu Ser Gln Leu Ala Gly Val Ser Arg Ile Thr Val Arg Lys
 65 70 75 80
 Ala Met Gln Ala Leu Glu Glu Ala Gly Val Val Thr Arg Ala Arg Gly
 85 90 95
 Tyr Gly Thr Gln Ile Asn Asn Ile Phe Glu Tyr Ser Leu Lys Glu Ala
 100 105 110
 Arg Gly Phe Ser Gln Gln Val Val Leu Arg Gly Lys Thr Pro Asn Thr
 115 120 125
 Leu Trp Val Asn Lys Arg Val Val Lys Cys Pro Glu Glu Ile Ala Arg
 130 135 140
 His Leu Ser Leu Ala Pro Asp Ser Asp Val Phe Leu Leu Lys Arg Ile
 145 150 155 160
 Arg Tyr Val Asp Asp Ala Val Ser Ile Glu Glu Ser Trp Val Pro
 165 170 175
 Val Gly Leu Ile Pro Asn Pro Asp Asp Ile Gly Val Ser Leu Tyr Asp
 180 185 190
 Tyr Phe Arg Ser Gln Asn Ile Phe Pro Gln Arg Thr Arg Ser Arg Val
 195 200 205
 Ser Ala Arg Met Pro Asp Ser Glu Phe Gln Ala His Ile Lys Met Asp
 210 215 220
 Asp Lys Ile Pro Val Leu Val Ile Lys Gln Val Ala Leu Asp Gln Gln
 225 230 235 240
 His Arg Pro Ile Glu Tyr Ser Ile Ser Tyr Cys Arg Ser Asp Leu Tyr
 245 250 255
 Val Phe Val Cys Glu Glu
 260

<210> 6273

<211> 543

<212> PRT

<213> Enterobacter cloacae

<400> 6273

Thr Asn Ile Met Asn Thr Thr Pro Glu Leu His Cys Asp Val Leu Ile
 1 5 10 15
 Ile Gly Ser Gly Ala Ala Gly Leu Ser Leu Ala Leu Arg Leu Ala Glu
 20 25 30
 His Gln Asn Val Ile Val Leu Ser Lys Gly Pro Met Ser Glu Gly Ser
 35 40 45
 Thr Phe Tyr Ala Gln Gly Gly Ile Ala Ala Val Phe Asp Glu Thr Asp
 50 55 60
 Ser Ile Ala Ser His Val Glu Asp Thr Leu Ile Ala Gly Ala Gly Ile
 65 70 75 80
 Val Asp Glu His Ala Ala Glu Phe Val Ala Ser Asn Ala Arg His Cys
 85 90 95
 Val Gln Trp Leu Ile Asp Gln Gly Val Leu Phe Asp Thr Gln Val Gln
 100 105 110
 Pro Asn Gly Glu Glu Ser Tyr His Leu Thr Arg Glu Gly Gly His Ser
 115 120 125
 His Arg Arg Ile Leu His Ala Ala Asp Ala Thr Gly Lys Ala Val Glu
 130 135 140
 Thr Thr Leu Val Ser Lys Ala Leu Ser His Pro Asn Ile Arg Val Leu
 145 150 155 160
 Glu Arg Ser Asn Ala Val Asp Leu Ile Ile Ser Asp Lys Ile Gly Leu
 165 170 175
 Pro Gly Thr Arg Arg Val Val Gly Ala Trp Val Trp Asn Arg Asn Lys
 180 185 190
 Glu Lys Val Glu Thr Cys Gln Ala Lys Ala Val Val Leu Ala Thr Gly
 195 200 205
 Gly Ala Ser Lys Val Tyr His Tyr Thr Thr Asn Pro Asp Ile Ala Ser
 210 215 220
 Gly Asp Gly Ile Ala Met Ala Trp Arg Ala Gly Cys Arg Val Ala Asn
 225 230 235 240
 Leu Glu Phe Asn Gln Phe His Pro Thr Ala Leu Phe His Pro Gln Ala
 245 250 255
 Arg Asn Phe Leu Leu Thr Glu Ala Leu Arg Gly Glu Gly Ala Tyr Leu
 260 265 270
 Lys Arg Pro Asp Gly Ser Arg Phe Met Pro Asp Phe Asp Pro Arg Gly
 275 280 285
 Glu Leu Ala Pro Arg Asp Ile Val Ala Arg Ala Ile Asp His Glu Met
 290 295 300
 Lys Arg Leu Gly Val Asp Cys Met Tyr Leu Asp Ile Ser His Lys Pro
 305 310 315 320
 Ala Asp Phe Ile Arg Gln His Phe Pro Met Ile Tyr Glu Lys Leu Leu
 325 330 335
 Ser Leu Gly Ile Asp Leu Thr Arg Asp Pro Val Pro Ile Val Pro Ala
 340 345 350
 Ala His Tyr Thr Cys Gly Gly Val Met Val Asp Asp His Gly Arg Thr
 355 360 365
 Asp Val Asp Gly Leu Tyr Ala Ile Gly Glu Val Ser Tyr Thr Gly Leu
 370 375 380
 His Gly Ala Asn Arg Met Ala Ser Asn Ser Leu Leu Glu Cys Leu Val
 385 390 395 400
 Tyr Gly Trp Ser Ala Ala Glu Asp Ile Thr Lys Arg Met Pro Tyr Ala
 405 410 415
 Arg Pro Thr Thr His Leu Pro Ala Trp Asp Glu Ser Arg Val Glu Asn
 420 425 430
 Pro Asp Glu Leu Val Val Ile Gln His Asn Trp His Glu Leu Arg Leu
 435 440 445
 Phe Met Trp Asp Tyr Val Gly Ile Val Arg Thr Thr Lys Arg Leu Glu
 450 455 460

Arg Ala Leu Arg Arg Ile Met Met Leu Gln Gln Glu Ile Asp Glu Tyr
 465 470 475 480
 Tyr Ala Asn Phe Arg Val Ser Asn Asn Leu Leu Glu Leu Arg Asn Leu
 485 490 495
 Val Gln Val Ala Glu Leu Ile Val Arg Cys Ala Met Met Arg Lys Glu
 500 505 510
 Ser Arg Gly Leu His Tyr Thr Leu Asp Tyr Pro Glu Pro Leu Glu Thr
 515 520 525
 Ser Gly Pro Ser Val Leu Thr Pro Gln Val His Ile Lys Arg
 530 535 540

<210> 6274

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 6274

Asn Met Thr Val Thr Thr Phe Ser Glu Leu Glu Leu Asp Glu Ser Leu
 1 5 10 15
 Leu Asn Ala Leu Glu Ser Lys Gly Phe Thr Arg Pro Thr Ala Ile Gln
 20 25 30
 Ala Ala Ala Ile Pro Pro Ala Leu Glu Gly Arg Asp Val Leu Gly Ser
 35 40 45
 Ala Pro Thr Gly Thr Gly Lys Thr Ala Ala Tyr Leu Leu Pro Val Leu
 50 55 60
 Gln His Leu Leu Asp Phe Pro Arg Lys Lys Ser Gly Pro Pro Arg Ile
 65 70 75 80
 Leu Ile Leu Thr Pro Thr Arg Glu Leu Ala Met Gln Val Ala Glu His
 85 90 95
 Ala Arg Glu Leu Ala Ala Asn Thr His Leu Asp Ile Ala Thr Ile Thr
 100 105 110
 Gly Gly Val Ala Tyr Met Asn His Ala Glu Val Phe Ser Glu Asn Gln
 115 120 125
 Asp Ile Val Val Ala Thr Thr Gly Arg Leu Leu Gln Tyr Ile Lys Glu
 130 135 140
 Glu Asn Phe Asp Cys Arg Ala Val Glu Thr Leu Ile Leu Asp Glu Ala
 145 150 155 160
 Asp Arg Met Leu Asp Met Gly Phe Ala Gln Asp Ile Glu His Ile Ala
 165 170 175
 Gly Glu Thr Arg Trp Arg Asn Gln Thr Met Leu Phe Ser Ala Thr Leu
 180 185 190
 Glu Gly Asp Ala Ile Lys Asp Phe Ala Glu Arg Leu Leu Glu Asp Pro
 195 200 205
 Val Glu Val Ser Ala Thr Pro Ser Thr Arg Glu Arg Lys Lys Ile His
 210 215 220
 Gln Trp Tyr Tyr Arg Ala Asp Asn Leu Glu His Lys Val Glu Leu Leu
 225 230 235 240
 Lys His Leu Leu Lys Gln Glu Glu Ala Thr Arg Thr Ile Val Phe Val
 245 250 255
 Arg Lys Arg Glu Arg Val His Glu Leu Ala Glu Met Leu Arg Asn Ala
 260 265 270
 Gly Ile Asn Asn Cys Tyr Leu Glu Gly Glu Met Ala Gln Val Lys Arg
 275 280 285
 Thr Glu Gly Ile Lys Arg Leu Thr Asp Gly Arg Val Asn Val Leu Val
 290 295 300
 Ala Thr Asp Val Ala Ala Arg Gly Ile Asp Ile Pro Asp Val Ser His
 305 310 315 320
 Val Ile Asn Phe Asp Met Pro Arg Ser Gly Asp Thr Tyr Leu His Arg
 325 330 335
 Ile Gly Arg Thr Gly Arg Ala Gly Arg Lys Gly Ile Ala Ile Ser Leu
 340 345 350

Val Glu Ala His Asp His Leu Leu Leu Gln Lys Ile Gly Arg Tyr Val
 355 360 365
 Glu Glu Pro Leu Lys Ala Arg Val Ile Asp Gly Leu Arg Pro Thr Thr
 370 375 380
 Arg Ala Pro Ser Glu Lys Met Thr Gly Lys Pro Ser Lys Lys Ala Leu
 385 390 395 400
 Ala Lys Arg Ala Glu Arg Lys Glu Lys Glu Lys Glu Lys Pro Arg Val
 405 410 415
 Lys Gln Arg His Arg Asp Thr Lys Asn Ile Gly Lys Arg Arg Lys Pro
 420 425 430
 Ser Ser Ala Ala Ser Glu Thr Lys Thr Glu Glu
 435 440

<210> 6275

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 6275

Gly Arg Gln His Met Ile Thr Gly Ile Gln Ile Thr Lys Ala Ala Asn
 1 5 10 15
 Asp Asp Leu Leu Asn Ser Phe Trp Leu Leu Asp Ser Glu Lys Asn Glu
 20 25 30
 Ala Arg Cys Val Val Ala Lys Ala Gly Phe Ala Glu Asp Glu Ile Val
 35 40 45
 Pro Val Ser Lys Leu Gly Glu Ile Glu Tyr Arg Glu Ile Pro Met Gln
 50 55 60
 Val Gln Pro Glu Val Arg Val Glu Gly Gly Gln His Leu Asn Val Asn
 65 70 75 80
 Val Leu Arg Arg Glu Thr Leu Met Asp Ala Val Glu His Pro Glu Lys
 85 90 95
 Tyr Pro Gln Leu Thr Ile Arg Val Ser Gly Tyr Ala Val Arg Phe Asn
 100 105 110
 Ser Leu Thr Pro Glu Gln Gln Arg Asp Val Ile Ala Arg Thr Phe Thr
 115 120 125
 Glu Ser Leu
 130

<210> 6276

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 6276

Phe Phe Thr Arg Lys Val Glu Gln Met Leu Gln His Arg Gln Gln Val
 1 5 10 15
 Gly Cys Cys Leu Pro Arg Ala Gly Trp Arg Arg Thr Glu His Ile Ala
 20 25 30
 Ala Leu Lys Arg Arg Arg Asn Gly Arg Gly Leu Asn Gly Gly Arg Ala
 35 40 45
 Cys Lys Ala Phe Ala Leu Lys Gly Ile Glu Gln Ala Phe Ile Glu Phe
 50 55 60
 Lys Phe Gly Lys Ser Arg Tyr Ser His Val Leu Pro Leu Cys Gly Ala
 65 70 75 80
 Leu Ile Ile Asp Val Thr Ala Val Ile Phe Ile Cys Leu Tyr Gly Tyr
 85 90 95
 Arg Phe Ser Thr Thr Ser Leu Ser Pro Met Leu Leu Gln Phe His Ser
 100 105 110
 Glu Gly Cys Pro Asp Met Ser Gln Leu Lys Ala Gln Leu Arg Arg Asp
 115 120 125
 Gly Phe Thr Phe Lys Gln Phe Phe Val Ala His Asp Arg Cys Ala Met

130 135 140
 Lys Val Gly Thr Asp Gly Ile Leu Leu Gly Ala Trp Ala Pro Val Ala
 145 150 155 160
 Gly Val Lys Arg Ile Leu Asp Ile Gly Thr Gly Ser Gly Leu Gln Ala
 165 170 175
 Leu Met Leu Ala Gln Arg Thr Glu Glu His Val Thr Ile Asp Ala Val
 180 185 190
 Glu Leu Asp Pro Gln Ala Ala Arg Gln Ala Ser Glu Asn Ala Ala Asp
 195 200 205
 Ser Pro Trp Ala Glu Arg Ile Arg Val Glu Cys Ala Asp Val Leu Thr
 210 215 220
 Trp Ala Pro Glu Gln Thr Ala Arg Tyr Asp Leu Ile Val Ser Asn Pro
 225 230 235 240
 Pro Tyr Phe Thr Pro Gly Val Glu Cys Gly Thr Pro Glu Arg Glu Gln
 245 250 255
 Ala Arg Tyr Thr Gly Ser Leu Asp His Lys Ala Leu Leu Thr Ser Ala
 260 265 270
 Ala Glu Leu Ile Ser Glu Glu Gly Phe Phe Cys Val Val Leu Pro Glu
 275 280 285
 Ser Thr Gly Asn Thr Phe Ile Glu Ile Ala His Glu Ile Gly Trp Asn
 290 295 300
 Leu Arg Leu Arg Thr Asp Ile Ser Asp Thr Glu Gly Arg Leu Pro His
 305 310 315 320
 Arg Val Leu Leu Ala Leu Ser Pro Lys Glu Gly Glu Cys Phe Ile Asp
 325 330 335
 Arg Met Val Ile Arg Gly Pro Asp Gln Arg Tyr Ser Glu Asp Tyr Thr
 340 345 350
 Ala Leu Thr Gln Ala Phe Tyr Leu Phe Met
 355 360

<210> 6277

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 6277

Ser Gly Val Ser Ile Thr Arg Gly Ile Trp Phe Gly Glu Thr Leu Pro
 1 5 10 15
 Arg Met Ser Glu Gln Leu Thr Asp Gln Val Leu Val Glu Arg Val Gln
 20 25 30
 Lys Gly Asp Gln Lys Ala Phe Asn Leu Leu Val Val Arg Tyr Gln His
 35 40 45
 Lys Val Ala Ser Leu Val Ser Arg Tyr Val Pro Ser Gly Asp Val Pro
 50 55 60
 Asp Val Val Gln Glu Ser Phe Ile Lys Ala Tyr Arg Ala Leu Asp Ser
 65 70 75 80
 Phe Arg Gly Asp Ser Ala Phe Tyr Thr Trp Leu Tyr Arg Ile Ala Val
 85 90 95
 Asn Thr Ala Lys Asn Tyr Leu Val Ala Gln Gly Arg Arg Pro Pro Ser
 100 105 110
 Ser Asp Val Asp Ala Ile Asp Ala Glu Asn Phe Glu Ser Gly Gly Ala
 115 120 125
 Leu Lys Glu Ile Ser Asn Pro Asp Asn Leu
 130 135

<210> 6278

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 6278

Tyr Val Phe Ile Thr Lys Thr Glu Arg Cys Phe Val Ile Tyr Leu Cys
 1 5 10 15
 Leu Arg Ala Arg Ser Ile Leu Glu Val Tyr Val Asp Val Arg Gln Ser
 20 25 30
 Ile His Ser Ala His Ala Lys Met Leu Asp Thr Gln Gly Leu Arg Ser
 35 40 45
 Glu Phe Leu Val Glu Gln Val Phe Glu Ala Asp Lys Tyr Thr Met Val
 50 55 60
 Tyr Ser His Ile Asp Arg Ile Ile Val Gly Gly Ile Met Pro Val Ala
 65 70 75 80
 Lys Thr Val Ser Val Gly Gly Glu Val Gly Lys Gln Leu Gly Val Ser
 85 90 95
 Tyr Phe Leu Glu Arg Arg Glu Leu Gly Val Ile Asn Ile Gly Gly Pro
 100 105 110
 Gly Thr Ile Thr Val Asp Gly Gln Cys Tyr Glu Ile Gly His Arg Asp
 115 120 125
 Ala Leu Tyr Val Gly Lys Gly Ala Lys Glu Val Val Phe Ala Ser Ser
 130 135 140
 Asp Ala Ser Lys Pro Ala Lys Phe Tyr Tyr Asn Cys Ala Pro Ala His
 145 150 155 160
 Thr Thr Tyr Pro Thr Lys Lys Val Thr Pro Ala Asp Val Ala Pro Val
 165 170 175
 Thr Leu Gly Asp Asn Leu Thr Ser Asn Arg Arg Thr Ile Asn Lys Tyr
 180 185 190
 Phe Val Pro Asp Val Leu Glu Thr Cys Gln Leu Ser Met Gly Leu Thr
 195 200 205
 Glu Leu Ala Pro Gly Asn Leu Trp Asn Thr Met Pro Cys His Thr His
 210 215 220
 Glu Arg Arg Met Glu Val Tyr Phe Tyr Phe Asn Met Asp Glu Asp Ala
 225 230 235 240
 Cys Val Phe His Met Met Gly Gln Pro Gln Glu Thr Arg His Ile Val
 245 250 255
 Met His Asn Glu Gln Ala Val Ile Ser Pro Ser Trp Ser Ile His Ser
 260 265 270
 Gly Val Gly Thr Lys Ala Tyr Thr Phe Ile Trp Gly Met Val Gly Glu
 275 280 285
 Asn Gln Val Phe Asp Asp Met Asp His Val Ala Val Lys Asp Leu Arg
 290 295 300

305

<210> 6279

<211> 257

<212> FRT

<213> Enterobacter cloacae

<400> 6279

Gly Thr Asn Met Ile Leu Asp Ala Phe Ser Leu Gln Gly Lys Val Ala
 1 5 10 15
 Val Val Ser Gly Cys Asp Thr Gly Leu Gly Gln Gly Met Ala Leu Gly
 20 25 30
 Leu Ala Glu Ala Gly Cys Asp Ile Val Gly Ile Asn Ile Val Glu Pro
 35 40 45
 Thr Glu Thr Ile Glu Arg Val Thr Ala Leu Gly Arg Arg Phe Leu Ser
 50 55 60
 Leu Thr Ala Asp Leu Arg Lys Ile Asp Ala Ile Pro Glu Leu Leu Asp
 65 70 75 80
 Arg Ala Val Ala Glu Phe Gly His Ile Asp Ile Leu Val Asn Asn Ala
 85 90 95
 Gly Leu Ile Arg Arg Glu Asp Ala Ile Asn Phe Ser Glu Thr Asp Trp
 100 105 110

Asp Asp Val Met Asn Leu Asn Ile Lys Ser Val Phe Phe Met Ser Gln
 115 120 125
 Ala Ala Ala Lys His Phe Ile Ala Gln Gly Lys Gly Gly Lys Ile Ile
 130 135 140
 Asn Ile Ala Ser Met Leu Ser Phe Gln Gly Gly Ile Arg Val Pro Ser
 145 150 155 160
 Tyr Thr Ala Ser Lys Ser Ala Val Met Gly Val Thr Arg Leu Leu Ala
 165 170 175
 Asn Glu Trp Ala Gln His Asn Ile Asn Val Asn Ala Ile Ala Pro Gly
 180 185 190
 Tyr Met Ala Thr Asn Asn Thr Gln Gln Leu Arg Ala Asp Glu Glu Arg
 195 200 205
 Ser Ala Ala Ile Leu Glu Arg Ile Pro Ala Gly Arg Trp Gly Leu Pro
 210 215 220
 Ser Asp Leu Met Gly Pro Val Val Phe Leu Ala Ser Pro Ala Ser Asp
 225 230 235 240
 Tyr Ile Asn Gly Tyr Thr Val Ala Val Asp Gly Gly Trp Leu Ala Arg
 245 250 255

<210> 6280

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 6280

Arg Ile Ser Leu Leu Arg Gln Glu Thr Met Thr Ser Val Asn Asp Ser
 1 5 10 15
 Thr Leu Met Pro Ala Ala Leu Arg Asp Thr Arg Arg Met Asn Gln Phe
 20 25 30
 Val Ser Val Ala Ala Ala Val Ala Gly Leu Leu Phe Gly Leu Asp Ile
 35 40 45
 Gly Val Ile Ala Gly Ala Leu Pro Phe Ile Thr Asp His Phe Thr Leu
 50 55 60
 Ser Asn Arg Leu Gln Glu Trp Val Val Ser Ser Met Met Leu Gly Ala
 65 70 75 80
 Ala Ile Gly Ala Leu Phe Asn Gly Trp Leu Ser Phe Arg Leu Gly Arg
 85 90 95
 Lys Tyr Ser Leu Met Val Gly Ala Ile Leu Phe Val Ala Gly Ser Leu
 100 105 110
 Gly Ser Ala Phe Ala Thr Asn Val Glu Val Leu Leu Ser Arg Val
 115 120 125
 Leu Leu Gly Val Ala Val Gly Ile Ala Ser Tyr Thr Ala Pro Leu Tyr
 130 135 140
 Leu Ser Glu Met Ala Ser Glu Asn Val Arg Gly Lys Met Ile Ser Met
 145 150 155 160
 Tyr Gln Leu Met Val Thr Leu Gly Ile Val Leu Ala Phe Leu Ser Asp
 165 170 175
 Thr Tyr Phe Ser Tyr Ser Gly Asn Trp Arg Ala Met Leu Gly Val Leu
 180 185 190
 Ala Leu Pro Ala Val Leu Leu Ile Val Leu Val Ile Phe Leu Pro Asn
 195 200 205
 Ser Pro Arg Trp Leu Ala Gln Lys Gly Arg His Val Glu Ala Glu Glu
 210 215 220
 Val Leu Arg Met Leu Arg Asp Thr Ser Glu Lys Ala Arg Glu Glu Leu
 225 230 235 240
 Asn Glu Ile Arg Glu Ser Leu Lys Leu Lys Gln Gly Gly Trp Ser Leu
 245 250 255
 Phe Lys Ala Asn Arg Asn Val Arg Arg Ala Val Phe Leu Gly Met Leu
 260 265 270

Leu Gln Ala Met Gln Gln Phe Thr Gly Met Asn Ile Ile Met Tyr Tyr
 275 280 285
 Ala Pro Arg Ile Phe Lys Met Ala Gly Phe Thr Thr Thr Glu Gln Gln
 290 295 300
 Met Ile Ala Thr Leu Val Val Gly Leu Thr Phe Met Phe Ala Thr Phe
 305 310 315 320
 Ile Ala Val Phe Thr Val Asp Lys Ala Gly Arg Lys Pro Ala Leu Lys
 325 330 335
 Ile Gly Phe Ser Val Met Ala Leu Gly Thr Leu Ile Leu Gly Tyr Cys
 340 345 350
 Leu Met Gln Phe Asp Asn Gly Thr Ala Ser Ser Gly Leu Ser Trp Leu
 355 360 365
 Ser Val Gly Met Thr Met Met Cys Ile Ala Gly Tyr Ala Met Ser Ala
 370 375 380
 Ala Pro Val Val Trp Ile Leu Cys Ser Glu Ile Gln Pro Leu Lys Cys
 385 390 395 400
 Arg Asp Phe Gly Ile Thr Cys Ser Thr Thr Thr Asn Trp Val Ser Asn
 405 410 415
 Met Ile Ile Gly Ala Thr Phe Leu Thr Leu Leu Asp Ala Ile Gly Ala
 420 425 430
 Ala Gly Thr Phe Trp Leu Tyr Thr Val Leu Asn Val Ala Phe Ile Gly
 435 440 445
 Val Thr Phe Lys Leu Ile Pro Glu Thr Lys Gly Val Asn Pro Gly Thr
 450 455 460
 Tyr Leu Asn Ala Thr Leu Lys Lys Met Gly Lys Thr Pro Val Ile Ser
 465 470 475 480
 Gly Phe Tyr Val Ile Ala Arg Gly Val Pro Pro Thr Phe Arg Gly Ala
 485 490 495
 Leu Leu Pro Phe Ala Pro Ser Val Thr Thr Leu Val Ser Ala Cys Ser
 500 505 510
 Pro Gln His Phe Ser Ser
 515

<210> 6281

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 6281

Phe Ser Thr Tyr Ile Thr Arg Ser Lys Glu Cys Ile Met Ala Lys Gly
 1 5 10 15
 Met Arg Val Lys Leu Asn Tyr Glu Val Ser Arg Asp Pro Asp Thr Gly
 20 25 30
 Val Glu Val Thr Arg Leu Thr Pro Glu Val Thr Cys His Arg Asn
 35 40 45
 Tyr Phe Tyr Gln Lys Cys Phe Asn Asp Gly Ser His Leu Leu Phe
 50 55 60
 Ala Gly Glu Phe Asp Gly His Trp Asn Tyr Tyr Leu Leu Asp Leu Lys
 65 70 75 80
 Asn Ala Glu Ala Val Gln Leu Thr Glu Gly Ala Gly Asp Asn Thr Phe
 85 90 95
 Gly Gly Phe Leu Ser Pro Asp Asp Lys Ser Leu Tyr Tyr Val Lys Asn
 100 105 110
 Asp Arg Thr Leu Leu Glu Val Asp Leu Gln Thr Leu Ala Gly Arg Glu
 115 120 125
 Val Tyr Arg Val Pro Glu Glu Trp Val Gly Tyr Gly Thr Trp Val Ala
 130 135 140
 Asn Ser Asp Cys Thr Lys Leu Val Gly Ile Glu Ile Ala Arg Cys Asp
 145 150 155 160
 Trp Thr Pro Leu Asn Asp Trp Lys Ile Phe His Asp Phe Phe His Lys
 165 170 175

Gly Pro His Cys Arg Leu Leu Arg Val Asp Leu Lys Thr Gly Glu Ser
 180 185 190
 Thr Thr Ile His Asp Glu Lys Ile Trp Leu Gly His Pro Ile Tyr Arg
 195 200 205
 Pro Phe Asp Asp Asn Thr Val Ala Phe Cys His Glu Gly Pro His Asp
 210 215 220
 Leu Val Asp Ala Arg Met Trp Leu Val Asn Glu Asp Gly Ser Asn Val
 225 230 235 240
 Arg Lys Val Lys Thr His Ala
 245

<210> 6282

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 6282

Tyr Gly Leu Asp Pro Ala Thr Gly Pro Ile Gly Arg Pro Ala Met Val
 1 5 10 15
 Ser Lys Lys Lys Thr Arg Val Val Asp Asp Val Val Lys Asn Ala Pro
 20 25 30
 Leu Lys Thr Lys Thr Tyr Glu Gln Glu Leu Arg Arg Leu His Val Glu
 35 40 45
 Leu Val Lys Leu Gln Gln Trp Val Val Ala Lys Gly Leu Lys Val Cys
 50 55 60
 Ile Val Phe Glu Gly Arg Asp Gly Ala Gly Lys Gly Gly Val Ile Lys
 65 70 75 80
 Ala Ile Thr Glu Arg Val Ser Pro Arg Val Phe Arg Val Val Ala Leu
 85 90 95
 Pro Ala Pro Thr Asp Lys Glu Lys Ser Gln Leu Tyr Phe Gln Arg Tyr
 100 105 110
 Val Pro His Leu Pro Ser Ala Gly Glu Ile Val Ile Phe Asp Arg Ser
 115 120 125
 Trp Tyr Asn Arg Ala Gly Val Glu Lys Val Met Gly Phe Cys Thr Glu
 130 135 140
 Glu Gln Ala Glu Lys Phe Leu Asp Gly Thr Pro Val Met Glu Lys Ala
 145 150 155 160
 Met Val Asp Ala Gly Ile Ile Leu Leu Lys Tyr Trp Leu Glu Val Thr
 165 170 175
 Pro Lys Glu Gln Glu Arg Arg Leu Arg Asp Arg Ile Asn Asp Gly Arg
 180 185 190
 Lys Ile Trp Lys Leu Ser Pro Met Asp Ile Lys Ser Phe Asn Leu Trp
 195 200 205
 Asp Glu Tyr Thr Leu Ala Arg Asp Ala Met Phe Lys Ala Thr Asp Thr
 210 215 220
 Ala Trp Ala Pro Trp Phe Val Ala Arg Ser Glu Asp Lys Lys Arg Val
 225 230 235 240
 Arg Leu Asn Ile Ile Ser His Leu Leu Ser Gln Ile Pro Tyr Lys Glu
 245 250 255
 Ile His Val Asp Lys Val Asp Leu Pro Lys Arg Lys Ile Gly Lys Val
 260 265 270
 Lys Pro Thr Lys Tyr Pro Phe Arg Tyr Ile Ala Glu Arg Phe
 275 280 285

<210> 6283

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 6283

Arg Ile Asp Ala Ile Ser Phe Pro Phe Asp Phe Leu Lys Thr Gly Arg

1 5 10 15
 Val Met Asp Arg Lys Arg Ala Thr Leu Thr Gly Leu Ala Ala Ile Leu
 20 25 30
 Leu Trp Ser Thr Met Val Gly Leu Ile Arg Ser Val Ser Glu Gly Leu
 35 40 45
 Gly Pro Val Gly Gly Ala Ala Met Ile Tyr Thr Val Ser Gly Leu Leu
 50 55 60
 Cys Leu Val Thr Val Gly Phe Pro Asp Leu Arg Arg Phe Ser Arg Arg
 65 70 75 80
 Tyr Leu Phe Ala Gly Ser Ile Leu Phe Val Ser Tyr Glu Met Cys Leu
 85 90 95
 Ala Leu Ser Leu Gly Tyr Ala Ala Thr Arg Ser Gln Ala Ile Glu Val
 100 105 110
 Gly Met Val Asn Tyr Leu Trp Pro Ser Leu Thr Ile Ala Phe Ala Ile
 115 120 125
 Leu Phe Asn Gly Gln Lys Ser Thr Leu Trp Val Ile Pro Gly Leu Leu
 130 135 140
 Ile Ser Leu Leu Gly Val Cys Trp Val Leu Gly Gly Glu Asn Gly Leu
 145 150 155 160
 Gln Leu Asn Asp Ile Met Gln Asn Val Val Ser Ser Pro Leu Ser Tyr
 165 170 175
 Gly Leu Ala Phe Ala Gly Ala Phe Ile Trp Ala Ala Tyr Cys Thr Val
 180 185 190
 Thr Ser Lys Tyr Ala Lys Gly Gln Asn Gly Ile Thr Leu Phe Val Leu
 195 200 205
 Leu Thr Ala Leu Ser Leu Trp Val Lys Tyr Ala Val Ser Asp Gln Pro
 210 215 220
 Glu Met Val Phe Ser Val Pro Val Val Val Lys Leu Leu Met Cys Gly
 225 230 235 240
 Val Ala Leu Gly Phe Gly Tyr Ala Ala Trp Asn Ile Gly Ile Leu His
 245 250 255
 Gly Asn Val Thr Val Leu Ala Ala Val Ser Tyr Phe Thr Pro Val Leu
 260 265 270
 Ser Ala Ala Leu Ala Ala Ile Val Leu Ser Ser Pro Leu Ser Phe Ser
 275 280 285
 Phe Trp Gln Gly Ala Leu Met Val Cys Ala Gly Ser Leu Leu Cys Trp
 290 295 300
 Tyr Ala Thr Arg Lys
 305 310

<210> 6284

<211> 177

<212> PRT

<213> *Enterobacter cloacae*

<400> 6284

Gly Leu Phe Lys Met Lys Leu Lys Leu Val Ala Val Ala Val Thr Ser
 1 5 10 15
 Met Leu Ala Ala Gly Val Val Asn Ala Ala Glu Val Phe Asn Lys Asp
 20 25 30
 Gly Asn Lys Leu Asp Leu Tyr Gly Lys Val Thr Gly Leu His Tyr Phe
 35 40 45
 Ser Asp Asp Ala Gly Ser Asp Gly Asp Lys Thr Tyr Val Arg Leu Gly
 50 55 60
 Phe Lys Gly Glu Thr Gln Ile Asn Asp Gln Leu Thr Gly Tyr Gly Gln
 65 70 75 80
 Trp Glu Tyr Glu Phe Lys Gly Asn Arg Ser Glu Ala Gln Gly Ser Asp
 85 90 95
 Gly Asn Lys Thr Arg Leu Ala Tyr Ala Gly Leu Lys Phe Asp Glu Phe
 100 105 110
 Gly Ser Phe Asp Tyr Gly Arg Asn Tyr Gly Val Ala Tyr Asp Ile Gly

115 120 125
 Ala Trp Thr Asp Val Leu Pro Glu Phe Gly Gly Asp Thr Trp Thr Gln
 130 135 140
 Thr Asp Gly Phe Met Thr Gly Arg Thr Thr Gly Val Ala Thr Tyr Arg
 145 150 155 160
 Asn Thr Asp Phe Phe Gly Leu Val Asp Gly Leu Asn Val Ala Ala Gln
 165 170 175
 Tyr

<210> 6285
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 6285
 Phe Asp Ala Ile Lys Lys Gly Ala Leu Leu Val Cys Arg Ala Lys
 1 5 10 15
 Ser Tyr Gln Ile Thr Arg Thr Thr Met Asp Val Ser Arg Arg Gln Phe
 20 25 30
 Phe Lys Ile Cys Ala Gly Gly Met Ala Gly Thr Thr Ala Ala Met Leu
 35 40 45
 Gly Phe Ala Pro Lys Met Ala Leu Ala Gln Ala Arg Asn Tyr Lys Leu
 50 55 60
 Leu Arg Ala Lys Glu Ile Arg Asn Thr Cys Thr Tyr Cys Ser Val Gly
 65 70 75 80
 Cys Gly Leu Leu Met Tyr Ser Leu Gly Asp Gly Ala Lys
 85 90

<210> 6286
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 6286
 Ser Arg Gly Ala Leu Cys Pro Glu Arg Gly Gly Ala Val Gly Leu Arg
 1 5 10 15
 Ser Thr Val Lys Thr Val Leu Arg Tyr Pro Glu Tyr Arg Ala Pro Gly
 20 25 30
 Ser Asp Lys Trp Gln Arg Ile Ser Trp Asp Asp Ala Phe Ser Arg Ile
 35 40 45
 Ala Lys Leu Met Lys Ala Asp Arg Asp Ala Asn Phe Ile Glu Lys Asn
 50 55 60
 Glu Gln Gly Ile Thr Val Asn Arg Trp Thr Ser Thr Gly Met Leu Cys
 65 70 75 80
 Ala Ser Ala Ala Ser Asn Glu Thr Gly Met Leu Thr Gln Lys Phe Val
 85 90 95
 Arg Ser Leu Gly Met Leu Ala Val Asp Asn Gln Ala Arg Val
 100 105 110

<210> 6287
 <211> 820
 <212> PRT
 <213> Enterobacter cloacae

<400> 6287
 His Gly Pro Thr Val Ala Ser Leu Ala Pro Thr Phe Gly Arg Gly Ala
 1 5 10 15
 Met Thr Asn His Trp Val Asp Ile Lys Asn Ala Asn Val Val Val
 20 25 30
 Met Gly Gly Asn Ala Ala Glu Ala His Pro Val Gly Phe Arg Trp Ala

[illegible]

Leu Leu Arg Asp Asp Gly Thr Thr Ala Ser Ser Cys Trp Ile Tyr Thr
 530 535 540
 Gly Ser Trp Thr Glu Gln Gly Asn Gln Met Ala Asn Arg Asp Asn Ala
 545 550 555 560
 Asp Pro Ser Gly Leu Gly Asn Thr Leu Gly Trp Ala Trp Ala Trp Pro
 565 570 575
 Leu Asn Arg Arg Val Leu Tyr Asn Arg Ala Ser Ala Asp Val Asn Gly
 580 585 590
 Lys Pro Trp Asp Pro Lys Arg Met Leu Ile Glu Trp Asn Gly Thr Lys
 595 600 605
 Trp Thr Gly Asn Asp Ile Pro Asp Phe Asn Thr Ala Ala Pro Gly Ser
 610 615 620
 Asn Thr Gly Pro Phe Ile Met Gln Pro Glu Gly Leu Gly Arg Leu Phe
 625 630 635 640
 Ala Ile Asp Lys Leu Ala Glu Gly Pro Phe Pro Glu His Tyr Glu Pro
 645 650 655
 Met Glu Thr Pro Leu Gly Thr Asn Pro Leu His Pro Asn Val Val Ser
 660 665 670
 Ser Pro Val Val Arg Ile Tyr Glu Asp Asp Val Leu Arg Leu Gly Lys
 675 680 685
 Lys Asp Lys Phe Pro Tyr Val Gly Thr Thr Tyr Arg Leu Thr Glu His
 690 695 700
 Phe His Thr Trp Thr Lys His Ala Arg Leu Asn Ala Ile Ala Gln Pro
 705 710 715 720
 Glu Gln Phe Val Glu Ile Ser Glu Thr Leu Ala Lys Ala Lys Gly Ile
 725 730 735
 Ala Asn Gly Asp Arg Val Lys Val Ser Ser Lys Arg Gly Phe Ile Arg
 740 745 750
 Ala Val Ala Val Val Thr Arg Arg Leu Gln Thr Leu Asn Val His Gly
 755 760 765
 Gln Gln Val Glu Thr Val Gly Ile Pro Leu His Trp Gly Phe Glu Gly
 770 775 780
 Val Ala Gln Lys Gly Tyr Ile Ala Asn Thr Leu Thr Pro Asn Val Gly
 785 790 795 800
 Asp Ser Asn Ser Gln Thr Pro Glu Tyr Lys Ala Phe Leu Val Asn Ile
 805 810 815
 Glu Lys Ala

820

<210> 6288

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6288

Phe Ile Thr Thr Ser Val Ser Gly Arg Ile Lys Arg Trp Met Thr Thr
 1 5 10 15
 Arg Arg Ser Ile Met Ser Lys Ser Lys Met Ile Val Arg Thr Lys Phe
 20 25 30
 Val Asp Arg Ala Cys His Trp Thr Val Val Ile Cys Phe Phe Leu Val
 35 40 45
 Ala Val Ser Gly Ile Ser Phe Phe Phe Pro Thr Leu Gln Trp Leu Thr
 50 55 60
 Glu Thr Phe Gly Thr Pro Gln Met Gly Arg Ile Leu His Pro Phe Phe
 65 70 75 80
 Gly Val Leu Ile Phe Val Val Leu Met Phe Met Phe Val Arg Phe Val
 85 90 95
 His His Asn Ile Pro Asp Lys Gln Asp Ile Pro Trp Leu Lys Gly Ile
 100 105 110
 Val Glu Val Leu Lys Gly Asn Glu His Lys Val Ala Lys Val Gly Lys
 115 120 125

Tyr Asn Ala Gly Gln Lys Met Met Phe Trp Thr Ile Met Ser Met Ile
 130 135 140
 Phe Val Leu Leu Val Thr Gly Val Ile Ile Trp Arg Pro Tyr Phe Ala
 145 150 155 160
 His Tyr Phe Pro Ile Gln Val Val Arg Tyr Ala Leu Leu Ile His Ala
 165 170 175
 Thr Ser Ala Ile Ile Leu Ile His Ala Ile Leu Ile His Met Tyr Met
 180 185 190
 Ala Phe Trp Val Lys Gly Ser Ile Lys Gly Met Ile Glu Gly Lys Val
 195 200 205
 Ser Arg Arg Trp Ala Gln Lys His His Pro Arg Trp Tyr Arg Asp Val
 210 215 220
 Glu Arg Leu Glu Ala Gln Lys Glu Ser Ser Glu Gly Leu Lys
 225 230 235

<210> 6289

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 6289

Phe Glu Leu Val His His Thr Ser Leu Ile Asn Asn Ala Arg Cys Val
 1 5 10 15
 Phe Phe Asn Ser Gly Arg Gly Met Lys Lys Thr Ile Phe Ser Leu Ala
 20 25 30
 Leu Ala Thr Phe Gly Leu Gly Met Ala Glu Phe Gly Ile Met Gly Val
 35 40 45
 Leu Thr Glu Leu Ala His Asp Thr Gly Ile Ser Ile Pro Ser Ala Gly
 50 55 60
 Asn Met Ile Ser Phe Tyr Pro Phe Gly Val Val Ile Ser Ala Pro Ile
 65 70 75 80
 Val Ala Leu Phe Ser Thr Asn Phe Arg
 85 90

<210> 6290

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6290

Met Ala Met Glu Thr Gln Asp Ile Ile Lys Arg Ser Ala Thr Asn Pro
 1 5 10 15
 Ile Thr Pro Ala Pro Arg Ala Arg Asp Tyr Lys Ala Glu Val Ala Lys
 20 25 30
 Leu Ile Asp Val Ser Ser Cys Val Gly Cys Lys Ala Cys Gln Val Ala
 35 40 45
 Cys Ser Glu Trp Asn Asp Ile Arg Asp Glu Val Gly His Cys Val Gly
 50 55 60
 Val Tyr Asp Asn Pro Ala Asp Leu Ser Ala Lys Ser Trp Thr Val Met
 65 70 75 80
 Arg Phe Ser Glu Thr Asp Gln Asn Gly Lys Leu Glu Trp Leu Ile Arg
 85 90 95
 Lys Asp Gly Cys Met His Cys Glu Asp Pro Gly Cys Leu Lys Ala Cys
 100 105 110
 Pro Ser Ala Gly Ala Ile Ile Gln Tyr Ala Asn Gly Ile Val Asp Phe
 115 120 125
 Gln Gln Asp Asn Cys Ile Gly Cys Gly Tyr Cys Ile Ala Gly Cys Pro
 130 135 140
 Phe Asn Ile Pro Arg Leu Asn Lys Glu Asp Asn Arg Val Tyr Lys Cys
 145 150 155 160
 Thr Leu Cys Val Asp Arg Val Ser Val Gly Gln Glu Pro Ala Cys Val

Lys	Thr	Cys	Pro	Thr	Gly	Ala	Ile	His	Phe	Gly	Thr	Lys	Lys	Glu	Met
			165							170					175
			180						185					190	
Leu	Glu	Val	Ala	Gln	Gln	Arg	Val	Asp	Lys	Leu	Lys	Ala	Arg	Gly	Tyr
			195					200				205			
Asp	Lys	Ala	Gly	Ile	Tyr	Asn	Pro	Gln	Gly	Val	Gly	Gly	Thr	His	Val
	210					215					220				
Met	Tyr	Val	Leu	His	His	Asn	Asp	Gln	Pro	Glu	Leu	Tyr	His	Asn	Leu
	225				230					235					240
Pro	Lys	Asp	Pro	Ala	Ile	Asp	Thr	Ser	Ile	Asn	Leu	Trp	Lys	Gly	Ala
			245						250					255	
Leu	Lys	Pro	Leu	Ser	Ala	Ala	Gly	Phe	Ile	Ala	Thr	Phe	Ala	Gly	Leu
			260					265						270	
Ile	Tyr	His	Tyr	Ile	Gly	Ile	Gly	Pro	Asn	Lys	Glu	Val	Asp	Asp	Asp
		275					280					285			
Glu	Glu	Glu	His	His	Glu										
	290						295								

<210> 6291

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 6291

Trp	Arg	Asn	Cys	Val	Arg	Ile	Glu	Thr	Ser	Leu	Phe	Thr	Thr	Pro	Glu
1				5					10					15	
Cys	Met	Lys	Ala	Ile	Thr	Leu	Tyr	Asp	Val	Ala	Arg	Val	Ala	Gly	Val
			20					25				30			
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		35					40					45			
Lys	Lys	Lys	Lys	Lys	Lys	Val	Arg	Gln	Ala	Met	Ala	Ala	Leu	His	Tyr
		50				55				60					
Val	Pro	Asn	Arg	Gly	Ala	Gln	Gln	Leu	Ala	Gly	Lys	Arg	Thr	Arg	Thr
	65			70					75					80	
Leu	Gly	Pro	Ile	Thr	Ser	Ile	Tyr	Leu	Ala	Ala	Gly	Thr	Ile	Gln	Arg
				85				90						95	
Leu	Gln	Leu													

<210> 6292

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 6292

Pro	Gly	Gln	Arg	Cys	Cys	Cys	Cys	Gly	Ser	Arg	Cys	Val	Ser	Cys	Arg
1				5				10						15	
Gly	Leu	Gly	Thr	Ile	Ser	Asn	Val	Ile	Cys	Ile	Val	Gln	Ala	Ala	Asp
			20					25				30			
Ala	Ser	Met	Ala	Leu	Ile	Pro	Glu	Leu	Thr	Ser	Leu	Pro	Val	Arg	Ile
		35					40					45			
Thr	Leu	Leu	Val	Ser	Gly	Ile	Val	Val	Asn	Ala	Leu	Ala	Thr	Gly	Met
	50					55				60					
Tyr	Ile	Gly	Ala	Gly	Phe	Gly	Ala	Gly	Pro	Arg	Asp	Gly	Leu	Met	Thr
	65			70				75					80		
Gly	Ile	His	Ala	Arg	Leu	Gly	Trp	Ser	Ile	Arg	Ser	Val	Arg	Thr	Ala
			85					90					95		
Ile	Glu	Val	Thr	Val	Leu	Ile	Val	Gly	Tyr	Leu	Leu	Gly	Gly	Ala	Phe
			100					105				110			
Gly	Val	Gly	Thr	Val	Leu	Tyr	Ala	Leu	Thr	Ile	Gly	Pro	Leu	Ile	Gln
	115						120					125			

Leu Cys Leu Pro Trp Phe Arg Gln Arg Pro Arg Ile Gln Lys Ala Ala
 130 135 140
 Gln Pro Glu Arg Ile Val
 145 150

<210> 6293

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 6293

Leu Gln Gly Gln Ala His Glu Gly Gly Phe Met Lys Ile Gly Glu Leu
 1 5 10 15
 Ala Arg Lys Ala Gly Cys Pro Val Glu Thr Ile Arg Tyr Tyr Glu Lys
 20 25 30
 Glu Gly Leu Leu Gln Ala Pro Leu Arg Asp Ile Glu Asn Asn Tyr Arg
 35 40 45
 His Tyr Asp Asn Asn His Leu Glu Lys Leu Leu Phe Ile Arg Arg Cys
 50 55 60
 Arg Ser Leu Asp Met Thr His Glu Glu Ile Arg Ala Leu Leu Leu Ala
 65 70 75 80
 Ile Asn Asn Asn Gly Lys Glu Cys Gly Pro Ile Asp Ala Ile Ile Ser
 85 90 95
 Ala His Leu Ala His Val Gln His Arg Ile Asn Glu Leu Ile Ala Leu
 100 105 110
 Glu Lys Gln Leu Gln Glu Leu Asn Asp Val Cys Asn Ala Asp Arg Ser
 115 120 125
 Val Asp Glu Cys Gly Ile Val Gln Lys Leu Thr Ala Glu Asp Glu Asp
 130 135 140
 Arg Asp Leu Pro Leu Thr Val Pro Thr Asp His Leu Gly Gly Val His
 145 150 155 160

<210> 6294

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 6294

Val Met Asn Ile Gly Lys Ala Ser Ser Glu Ser Gly Ile Ser Ala Lys
 1 5 10 15
 Met Ile Arg Tyr Tyr Glu Gln Ile Gly Leu Ile Pro Ala Thr Gly Arg
 20 25 30
 Thr Glu Ala Gly Tyr Arg Asp Tyr Ala Pro Asn Asp Ile His Arg Leu
 35 40 45
 Ile Phe Ile Arg Ser Ala Arg Asp Leu Gly Phe Ser Leu Glu Glu Ile
 50 55 60
 Glu Gly Leu Leu Lys Leu Trp Asn Asp Lys Ser Arg Gln Ser Ser Asp
 65 70 75 80
 Val Lys Arg Leu Ala Gln Glu His Ile Asn Asp Leu Asp Arg Arg Ile
 85 90 95
 Glu Ser Met Arg Gln Met Ala Asp Thr Leu Arg Val Leu Ile Gln Ser
 100 105 110
 Cys Ala Gly Asp Glu Arg Ala Glu Cys Pro Ile Leu His Arg Leu Thr
 115 120 125
 Ile Ala Asp Asp Ile Ser His Ser Gly Lys Arg Glu Gly Ala Val Gln
 130 135 140
 Arg Arg Ser Arg Gly Asn Arg Val Ser Lys Asp
 145 150 155

<210> 6295

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6295

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Asn Leu Val Ile Arg Gly His Met Ile Thr Lys Thr Tyr Ala Asp Ser
1      5      10      15
Val Val Lys Asp Ile Val Gln Trp Val Glu Asn Ser Leu Thr Ser Thr
      20      25      30
Leu Leu Val Glu Glu Ile Ala Glu Lys Ser Gly Tyr Ser Arg Trp His
      35      40      45
Phe Gln Arg Ile Phe Lys His Ala Thr Gly Ile Ala Leu Gly Glu Tyr
      50      55      60
Val Lys Pro Asp Asp Tyr Leu Cys Cys Arg Arg Val Glu Thr Asn Tyr
65      70      75      80

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<210> 6296

<211> 547

<212> PRT

<213> Enterobacter cloacae

<400> 6296

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Gly Cys Ser Ile Ser Glu Pro Asn Asp Glu Lys Tyr Ile Met Ser Ile
1      5      10      15
Gln Lys Lys Gln His Ser Asn Asp Ala Glu Thr Gln Val Ser Leu Pro
      20      25      30
Ile Glu Gly Met Thr Cys Ala Ser Cys Val Gly Arg Val Glu Ala Ala
      35      40      45
Leu Thr Lys Val Glu Gly Val Glu Ser Val Ser Val Asn Leu Ala Thr
      50      55      60
Glu Arg Ala Asp Ile Leu Leu Asn Thr Pro Val Glu Arg Met Ala Leu
65      70      75      80
Ile Lys Ala Ile Glu Asn Val Gly Tyr Glu Val Pro Leu Thr Ser Val
      85      90      95
Glu Leu Ser Val Gln Gly Met Thr Cys Ala Ser Cys Val Gly Arg Val
      100      105      110
Glu Lys Ala Leu Arg Ala Val Glu Gly Val Lys Asp Ala Thr Val Asn
      115      120      125
Leu Ala Thr Glu Arg Ala Thr Ile Arg Gly Val Ala Gly Thr Asp Asp
      130      135      140
Leu Ile Ala Ala Ile Glu Lys Val Gly Tyr Glu Ala Ser Leu Val Asp
      145      150      155
Thr Arg Gly Gln Asn Asn Val Glu Ala Ala Glu Lys Lys Asp Ala Glu
      165      170      175
Lys Ala Ala Leu Lys Lys Asp Leu Val Leu Ala Thr Ile Leu Ala Leu
      180      185      190
Pro Val Phe Ile Met Glu Met Gly Ser His Leu Ile Pro Gly Met His
      195      200      205
Gln Trp Ile Met Asp Thr Ile Gly Leu Gln Glu Ser Trp Tyr Leu Gln
      210      215      220
Phe Val Leu Thr Leu Leu Val Leu Val Ile Pro Gly Arg Arg Phe Tyr
      225      230      235
Leu Lys Gly Ile Pro Ala Leu Ile Arg Leu Gly Pro Asp Met Asn Ser
      245      250      255
Leu Val Ser Val Gly Thr Leu Ala Ala Phe Gly Tyr Ser Met Val Ala
      260      265      270
Thr Phe Ala Pro Gly Leu Leu Pro Gln Gly Thr Val Asn Val Tyr Tyr
      275      280      285

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Glu Ala Ala Ala Val Ile Val Ala Leu Ile Leu Gly Arg Phe Met
 290 295 300
 Glu Ala Arg Ala Lys Gly Arg Thr Ser Glu Ala Ile Lys Arg Leu Val
 305 310 315
 Gly Leu Gln Ala Lys Glu Ala His Val Leu Arg Asn Gly Val Val Val
 325 330 335
 Asp Ile Pro Ile Asn Asp Val Val Leu Asp Asp Ile Ile Glu Val Arg
 340 345 350
 Pro Gly Glu Arg Val Pro Val Asp Gly Glu Val Ser Glu Gly Thr Ser
 355 360 365
 Phe Val Asp Glu Ser Met Ile Thr Gly Glu Pro Ile Pro Val Glu Lys
 370 375 380
 Val Pro Gly Ser Leu Met Val Gly Gly Thr Val Asn Gln Lys Gly Ala
 385 390 395
 Leu Arg Leu Arg Ala Thr Ala Val Gly Gly Gln Thr Met Leu Ser Gln
 405 410 415
 Ile Ile Arg Met Val Glu Gln Ala Gln Gly Ser Lys Leu Pro Ile Gln
 420 425 430
 Ala Val Val Asp Lys Val Thr Leu Trp Phe Val Pro Val Val Met Leu
 435 440 445
 Ala Ala Leu Leu Thr Phe Leu Ala Trp Leu Thr Phe Gly Pro Ser Pro
 450 455 460
 Ala Leu Ser Phe Ala Leu Val Asn Ala Val Ala Val Leu Ile Ile Ala
 465 470 475
 Cys Pro Cys Ala Met Gly Leu Ala Thr Pro Thr Ser Ile Met Val Gly
 485 490 495
 Thr Gly Arg Gly Ala Glu Met Gly Ile Leu Phe Arg Lys Gly Glu Ala
 500 505 510
 Leu Gln Leu Leu Lys Asp Ala Lys Val Val Ala Val Asp Lys Thr Gly
 515 520 525
 Thr Leu Thr Glu Gly Ala Pro Arg Asn Asp Arg Pro Gly Val Ser Arg
 530 535 540
 Arg Val
 545

<210> 6297

<211> 852

<212> PRT

<213> Enterobacter cloacae

<400> 6297

Leu Thr Gly Glu Ala Ile Lys Met Ser Gly Ser Val Lys Asn Ser Lys
 1 5 10 15
 Thr Gln Val Arg Glu Glu Ser Ala Gly Cys Cys Glu Lys Ile Asn Leu
 20 25 30
 Ile Val Gly Ser Lys Met Gln Arg Ser Glu Glu Pro Ala Lys Ala His
 35 40 45
 Gly His Ala His Asp His Lys Asp Cys Ser Ala Glu Leu Ser His Lys
 50 55 60
 Glu His Gly His Gly Ser Asp Lys His Leu His Arg Glu Gln Gly His
 65 70 75 80
 Val Lys Gly Gly His Ala His Glu Gly Cys Ser His Glu His Ser His
 85 90 95
 Thr Asp Glu Glu His Asp His Gly Glu Glu Glu His Ser His Gly Asp
 100 105 110
 His Gln His Lys Gly Cys Asn His Asp His Ala Gln Asp Asp Gln Ala
 115 120 125
 Asp Glu His His Gly His Ser Gly Asp Cys Cys Ser Gly Ala Pro Thr
 130 135 140
 Asn Leu Ser Asn Leu Gly Gly Ser Lys Val Val Ala Gly Gly Leu Arg
 145 150 155 160

Thr Glu Ile Arg Ile Met Gln Met Asp Cys Pro Val Glu Glu Asn Leu
 165 170 175
 Ile Lys Lys Lys Leu Gly Ala Met Thr Ser Val Lys Glu Leu Asp Phe
 180 185 190
 Asn Leu Met Gln Arg Val Leu Thr Val Thr His Thr Pro Asp Ser Leu
 195 200 205
 Glu Pro Ile Leu Val Ala Ile Arg Ser Leu Gly Phe Val Pro Glu Val
 210 215 220
 Ser Asp Asn Asn Gly Glu Lys Lys Asn Ile Gln Glu Lys Lys Lys Pro
 225 230 235 240
 Trp Trp Pro Leu Ala Leu Ala Gly Val Ala Ala Leu Ala Ala Glu Val
 245 250 255
 Met His Trp Ala Asp Met Pro Asp Trp Leu Glu Ala Gly Leu Ala Leu
 260 265 270
 Ile Ala Val Leu Leu Ser Gly Leu Thr Thr Tyr Lys Lys Gly Trp Ile
 275 280 285
 Ser Ile Arg Asn Gly Asn Leu Asn Ile Asn Ala Leu Met Ser Ile Ala
 290 295 300
 Val Thr Gly Ala Leu Val Leu Gly Gln Trp Pro Glu Ala Ala Met Val
 305 310 315 320
 Met Val Leu Phe Thr Ile Ala Glu Leu Ile Glu Ala Lys Ser Leu Asp
 325 330 335
 Arg Ala Arg Asn Ala Ile Gly Ser Leu Met Ser Leu Thr Pro Glu Thr
 340 345 350
 Ala Met Val Gln Gln Thr Asp Gly Ser Trp Gln Glu Val Asp Ala Ser
 355 360 365
 Ser Val Gln Pro Gly Ser Ile Val Arg Val Lys Pro Gly Glu Arg Ile
 370 375 380
 Gly Leu Asp Gly Glu Ile Val Lys Gly Gln Thr Thr Ile Asn Gln Ala
 385 390 395 400
 Pro Ile Thr Gly Glu Ser Leu Pro Val Asp Lys Met Ala Gly Asp Ser
 405 410 415
 Val Phe Ala Gly Thr Ile Asn Gln Ser Gly Ser Phe Glu Tyr Lys Val
 420 425 430
 Thr Ala Ala Ala Asn Asn Thr Thr Leu Ala Arg Ile Ile His Ala Val
 435 440 445
 Glu Gln Ala Gln Gly Ala Lys Ala Ala Thr Gln Arg Phe Val Asp Arg
 450 455 460
 Phe Ser Gln Ile Tyr Thr Pro Val Val Met Gly Ile Ser Val Ala Val
 465 470 475 480
 Ala Val Leu Pro Pro Leu Phe Gly Ala Gly Thr Trp Gln Glu Trp Ile
 485 490 495
 Tyr Lys Ala Leu Val Met Leu Val Ile Ala Cys Pro Cys Ala Leu Val
 500 505 510
 Ile Ser Thr Pro Val Thr Ile Val Ser Gly Leu Thr Ala Ala Ala Arg
 515 520 525
 Lys Gly Ile Leu Ile Lys Gly Gly Val Tyr Leu Glu Gln Gly Arg Lys
 530 535 540
 Leu Lys Ala Leu Ala Leu Asp Lys Thr Gly Thr Ile Thr His Gly Lys
 545 550 555 560
 Pro Val Gln Thr Asp Val Met Val Phe Asn Gly Glu Ser Glu Leu Glu
 565 570 575
 Val Arg Thr Val Ala Ala Ser Leu Ala Ser Tyr Ser Asp His Pro Val
 580 585 590
 Ser Gln Ala Val Val Asn Ala Ser Val Asp Leu Lys Lys Gln Ser Val
 595 600 605
 Glu Asn Phe Glu Ala Ile Val Gly Arg Gly Val His Gly Val Ile Ala
 610 615 620
 Gly Lys Asp Phe Tyr Leu Gly Asn Leu Arg Leu Ala Glu Asp Leu Leu
 625 630 635 640
 Ser Cys Pro Leu Glu Val Lys Ala Thr Val Gln Ser Leu Glu Ser Leu

645 650 655
 Gly Lys Thr Val Ile Leu Phe Asn Asp Gly Lys Gln Val Leu Gly Leu
 660 665 670
 Phe Ala Val Ala Asp Thr Val Lys Asn Thr Ser Arg Glu Ala Ile Gln
 675 680 685
 Gln Leu His His Leu Gly Val Lys Thr Val Met Leu Thr Gly Asp Asn
 690 695 700
 Pro His Thr Ala Lys Ala Ile Ala Ser Gln Val Gly Ile Asp Glu Ala
 705 710 715 720
 Arg Gly Ser Gln Leu Pro Glu Asp Lys His Gln Val Val Gln Glu Tyr
 725 730 735
 Ser Arg Ile Gly Val Thr Gly Met Val Gly Asp Gly Ile Asn Asp Ala
 740 745 750
 Pro Ala Leu Ala Ala Ala Asp Ile Gly Phe Ala Met Gly Ala Met Gly
 755 760 765
 Thr Asp Thr Ala Ile Glu Thr Ala Asp Val Ala Leu Met Asp Asp Asp
 770 775 780
 Leu Arg Lys Ile Pro Ala Phe Val Lys Leu Ser Arg Gln Thr Tyr Ser
 785 790 795 800
 Leu Leu Val Gln Asn Ile Ser Leu Ala Leu Gly Ile Lys Ala Ile Phe
 805 810 815
 Leu Val Leu Thr Leu Met Gly Met Gly Thr Met Trp Met Ala Val Phe
 820 825 830
 Ala Asp Val Gly Ala Ser Leu Leu Val Val Ala Asn Gly Leu Arg Leu
 835 840 845
 Leu Arg Lys
 850

<210> 6298

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 6298

Leu Arg Gly Arg Pro Val Met Thr Asp Leu Glu Leu Ala Glu Gly Phe
 1 5 10 15
 Glu Leu Asn Glu Val Leu Ala Lys Val Ala Ala Val Glu Ser Arg Ser
 20 25 30
 Glu His Pro Ile Ala Arg Ala Ile Val Glu Ser Ala Leu Glu Lys Gly
 35 40 45
 Ile Ser Leu Pro Ile Leu Thr Glu Phe Asp Ser Ile Thr Gly Met Gly
 50 55 60
 Val Arg Ala Ile Val Asp Gly Glu Cys Ile Glu Val Gly Ala Asp Arg
 65 70 75 80
 Phe Met Arg Glu Leu Gly Leu Asp Val Glu His Phe Ser Gln Thr Ser
 85 90 95
 Val Arg Leu Gly Asn Glu Gly Lys Ser Pro Leu Tyr Val Ala Ile Gly
 100 105 110
 Gly Arg Leu Ala Ala Ile Ile Ala Val Ala Asp Pro Ile Lys Ser Ser
 115 120 125
 Thr Pro Ile Ala Ile Asn Ala Leu His Gln Leu Gly Leu Lys Val Ala
 130 135 140
 Met Ile Thr Gly Asp Asn Ala Asn Thr Ala His Ala Ile Ala Arg Gln
 145 150 155 160
 Leu Gly Phe Asp Glu Val Val Ala Glu Val Leu Pro Glu Gly Lys Val
 165 170 175
 Glu Ala Val Arg Arg Leu Lys Glu Ser Tyr Gly Lys Val Ala Tyr Val
 180 185 190
 Gly Asp Gly Ile Asn Asp Ala Pro Ala Leu Ala Val Ala Asp Ile Gly
 195 200 205
 Leu Ala Ile Gly Thr Gly Thr Asp Ile Ala Val Glu Ser Ala Asp Val

210	215	220
Val Leu Met Ser Gly Asn	Leu Gln Gly Val	Pro Asn Ala Ile Gly Leu
225	230	235
Ser Lys Ala Thr Ile Gly Asn Ile Arg	Gln Asn Leu Phe Trp Ala Phe	240
245	250	255
Gly Tyr Asn Ala Ala Leu Ile Pro Val	Ala Ala Gly Leu Leu Tyr Pro	260
260	265	270
Ala Tyr Gly Leu Leu Leu Ser Pro Ile Phe Ala Ala Gly Ala Met Ala	275	280
285	290	295
Leu Ser Ser Val Phe Val Leu Gly Asn Ala Leu Arg Leu Arg Arg Phe	300	305
310	315	

<210> 6299

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 6299

Thr Cys Gln Arg Phe Ala Ala Ile Phe Arg Ala Pro Val Val Arg Ala	1	5	10	15
Leu Met Ala Arg Leu Tyr Pro Asn Gly Pro Ala Asp Ile Asn His Phe	20	25	30	35
Gln Ala Ala Gly Gly Val Pro Val Leu Met Arg Glu Leu Leu Lys Gly	40	45	50	55
Gly Leu Leu His Glu Asp Val Asn Thr Val Ala Gly Phe Gly Leu His	60	65	70	75
Arg Tyr Thr Leu Glu Pro Trp Leu Asn Asn Gly Glu Leu Asp Trp Arg	80	85	90	95
Glu Gly Ala Ser Asp Ser Leu Asp Pro Gln Val Ile Ala Thr Phe Glu	100	105	110	115
Gln Pro Phe Ser Pro His Gly Gly Thr Lys Val Leu Ser Gly Asn Leu	120	125	130	135
Gly Arg Ala Val Met Lys Thr Ser Ala Val Pro Glu Glu Asn Gln Val	140	145	150	155
Ile Glu Ala Pro Ala Val Val Phe Glu Ser Gln His Asp Val Leu Pro	160	165	170	175
Ala Phe Asp Ala Gly Leu Leu Asp Lys Asp Cys Val Val Val Val Arg	180	185	190	195
His Gln Gly Pro Lys Ala Asn Gly Met Pro Glu Leu His Lys Leu Met	200	205	210	215
Pro Pro Leu Gly Val Leu Leu Asp Arg Arg Phe Lys Ile Ala Leu Val	220	225	230	235
Thr Asp Gly Arg Leu Ser Gly Ala Ser Gly Lys Val Pro Ser Ala Ile	240	245	250	255
His Val Thr Pro Glu Ala Tyr Asp Gly Gly Leu Leu Ala Lys Val Arg	260	265	270	275
Asp Gly Asp Met Ile Arg Val Asn Gly Gln Thr Gly Glu Leu Thr Leu	280	285	290	295
225	230	235	240	245
Leu Val Asp Glu Ala Glu Leu Ala Ala Arg Gln Pro His Ile Pro Asp	250	255	260	265
Leu Ser Ala Ser Arg Val Gly Thr Gly Arg Glu Met Phe Gly Ala Leu	270	275	280	285
Arg Glu Lys Leu Ser Gly Ala Glu Gln Gly Ala Thr Cys Ile Thr Phe	290	295	300	305

<210> 6300

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 6300

Asp Asp Leu Ile Leu Thr Ile Trp Arg Glu Lys Thr Leu Met Lys Asn
 1 5 10 15
 Trp Lys Thr Ser Ala Glu Ala Ile Leu Thr Thr Gly Pro Val Val Pro
 20 25 30
 Val Ile Val Val Asn Lys Leu Glu His Ala Val Pro Met Ala Lys Ala
 35 40 45
 Leu Val Ala Gly Gly Val Arg Val Leu Glu Val Thr Leu Arg Thr Ala
 50 55 60
 Cys Ala Met Asp Ala Ile Arg Ala Ile Ala Lys Glu Val Pro Glu Ala
 65 70 75 80
 Ile Ile Gly Ala Gly Thr Val Leu Asn Ala Gln Gln Leu Ala Glu Val
 85 90 95
 Thr Glu Ala Gly Ala Gln Phe Ala Ile Ser Pro Gly Leu Thr Glu Pro
 100 105 110
 Leu Leu Lys Ala Ala Thr Glu Gly Ser Ile Pro Leu Ile Pro Gly Ile
 115 120 125
 Ser Thr Val Ser Glu Leu Met Leu Gly Met Asp Tyr Gly Leu Lys Glu
 130 135 140
 Phe Lys Phe Phe Pro Ala Glu Ala Asn Gly Gly Thr Lys Ala Leu Gln
 145 150 155 160
 Ala Ile Ala Gly Pro Phe Ser Gln Val Arg Phe Cys Pro Thr Gly Gly
 165 170 175
 Ile Ser Pro Val Asn Tyr Arg Asp Tyr Leu Ala Leu Lys Ser Val Leu
 180 185 190
 Cys Ile Gly Gly Ser Trp Leu Val Pro Ala Asp Ala Leu Glu Ala Gly
 195 200 205
 Asp Trp Asp Arg Ile Thr Lys Leu Ala Arg Glu Ala Val Glu Gly Ala
 210 215 220
 Lys Gln
 225

<210> 6301

<211> 840

<212> PRT

<213> Enterobacter cloacae

<400> 6301

Leu Ile Met Ser Gly Glu Ser Glu Val Ala Gln Arg Gln Asp Thr Leu
 1 5 10 15
 Asn Arg Tyr Leu Leu Tyr Phe Pro Arg Ser Lys Asn Val Ile Ser Asp
 20 25 30
 Val His Ser Phe Thr Gly Lys Glu Ile Leu Ser Glu Pro Tyr Arg Tyr
 35 40 45
 Thr Ile Arg Phe Thr Ser Pro Asp Leu Asn Ile Ala Ile Asn Ala Val
 50 55 60
 Leu Asn Gln Arg Ala Glu Phe Ile Leu Arg Ala Pro Asn Leu Glu Ala
 65 70 75 80
 Ser Trp His Gly Gln Thr Ser Trp Leu Pro Val Arg Gln Ile Asn Gly
 85 90 95
 Thr Ile Thr Gln Phe Ser Arg Leu Met Ser Ser Gly Asp Glu Ala Leu
 100 105 110
 Tyr Glu Cys Val Leu Glu His Glu Leu Ala Leu Leu Asp Gln Asn Tyr
 115 120 125
 Arg Ser Ala Val Tyr Met Asn Met Thr Val Pro Glu Leu Val Thr Lys
 130 135 140
 Leu Met Lys Asp Ser Gly His Phe Asp Gly Tyr Asn Ile Asp Phe Asp
 145 150 155 160
 Gln Leu Ser His Ser Tyr Pro Arg Arg Glu Met Ile Val Gln Trp Lys
 165 170 175

Glu Thr Asp Leu Arg Phe Ile Arg Arg Leu Leu Ala Glu Ile Gly Ile
 180 185 190
 Trp Phe Arg Phe Glu Asn His Asn Lys Val Lys Thr Glu Thr Val Val
 195 200 205
 Ile Phe Gly Asp Ser Ala Arg Arg Tyr Asn Phe Ser Asp Lys Gln Met
 210 215 220
 Pro Tyr Val Arg His Ser Gly Met Thr Ser Tyr Ser Glu Tyr Ile Thr
 225 230 235 240
 Asp Leu Glu Asp Gln His Gly Leu Ile Pro Lys Asn Val Leu Val Arg
 245 250 255
 Thr Tyr Phe Tyr Arg Asp Pro Gln Ser Pro Gln Thr Asp Lys Thr Val
 260 265 270
 Lys Thr Ser Asp Ile Pro Glu Gly Val Thr Thr Gly Gln His Tyr His
 275 280 285
 Tyr Ala Asp His Tyr Leu Thr Ala Gly Asp Phe His Gly Glu Glu Ala
 290 295 300
 Glu Thr Ala Ala Phe Tyr Ala Arg Leu Arg Tyr Glu Arg Leu Leu Asn
 305 310 315 320
 Gly Gln Ser Leu Leu Gly Ala Thr Thr Ser Asp Pro Glu Leu Gln Pro
 325 330 335
 Gly Ile Met Phe Tyr Pro Ser Gly Pro Val Pro Asp Gly Phe Lys Ser
 340 345 350
 Gly Phe Val Ile Thr Ala Met Thr Ile Arg Gly Ser Arg Ala Glu His
 355 360 365
 Tyr Arg Ala Val Leu Ser Gly Ile Pro Tyr Ile Gln Gly Tyr Thr Phe
 370 375 380
 Arg Pro Glu Tyr Leu Ser Arg Pro Val Ile Ala Gly Thr Val Pro Ala
 385 390 395 400
 Arg Val Lys Ala Ile Gly Gly Asp Lys Thr Tyr Ala Gly Leu Asp Ala
 405 410 415
 Val Gly Arg Tyr Arg Val Lys Phe Asp Phe Asp Leu Asp Glu Lys Arg
 420 425 430
 Val Gly Phe Glu Ser Ala Leu Val Arg Leu Gly Arg Pro Tyr Ala Gly
 435 440 445
 Asp Thr Phe Gly Ile His Phe Pro Leu Leu Glu Gly Thr Glu Val Ala
 450 455 460
 Val Gly Phe Glu Gly Gly Asp Pro Asp Arg Pro Phe Ile Ala His Val
 465 470 475 480
 Met His Asp Gly Ser His Pro Asp Leu Val Thr Asn Arg Asn Asp Thr
 485 490 495
 Arg Asn Val Ile Arg Thr Ala Ala Leu Asn Lys Ile Arg Leu Glu Asp
 500 505 510
 Arg Arg Gly Gln Glu His Ile Lys Ile Ala Thr Glu Tyr Gly Lys Gly
 515 520 525
 Gln Val Ser Val Gly His Leu Val Asp Ala Glu Gly Lys Lys Arg Gly
 530 535 540
 Glu Gly Val Glu Ala Arg Thr Asp Asp Trp Met Ala Leu Arg Ala Ala
 545 550 555 560
 Lys Gly Val Met Ile Thr Thr Glu Ala Gln Pro Arg Ala Gly Gly Lys
 565 570 575
 Gln Leu Asp Met Thr Ala Ala Ile Ala Gln Leu Glu Lys Ala Leu Ser
 580 585 590
 Leu Ala Met Thr Leu Gln Gln Ser Ala Leu Thr Ala Gly Ala Ser Asn
 595 600 605
 Val Glu Thr Asp Arg Gln Asn Ala Leu Ser Gln Thr Leu Ser His Leu
 610 615 620
 Ala Glu Pro Gly Ile Leu Ala Tyr Gly Lys Ser Gly Ile Ala Leu Val
 625 630 635 640
 Thr Pro Asp Ser Leu Gln Leu Ser Ala Gly Lys Asp Leu Ile Ala Thr
 645 650 655
 Ala Gly Gly Asn Ala Ser Val Asn Val Val Lys Lys Phe Ser Leu Ala

660 665 670
 Val Gly Glu Lys Leu Ser Leu Phe Ala Arg Lys Leu Gly Ile Gln Met
 675 680 685
 Ile Ala Gly Ala Gly Asp Ile Thr Thr Gln Ala Gln Arg Gly Glu Met
 690 695 700
 His Met Leu Ser Gln Gln Asp Phe Thr Leu Thr Ser Thr Ala Gly Lys
 705 710 715 720
 Met Asn Gly Ser Ala Arg Lys Gly Met Gln Phe Val Cys Gly Gly Gly
 725 730 735
 Gly Ile Arg Ile Ser Pro Thr Gly Leu Val Thr Ile Phe Ser Pro Thr
 740 745 750
 Gly Ile Glu Leu Lys Ala Pro Ser Leu Lys Tyr Asp Gly Pro Glu Ser
 755 760 765
 Val Ser Val Pro Thr Pro Ser Phe Glu Lys Gly Ala Phe Lys Leu Arg
 770 775 780
 Tyr Lys Leu His Ala Gly Asp Asp Pro Glu Gln Ile Leu Ala Asn Lys
 785 790 795 800
 Lys Phe Arg Leu Thr Ser Ala Ser Gly Gln Val Val Glu Gly Val Thr
 805 810 815
 Asp Ser Cys Gly Arg Ser Pro Leu Leu Asp Ala Asp Asp Leu Asp Ser
 820 825 830
 Tyr Lys Met Glu Ile Met Glu
 835 840

<210> 6302

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 6302

Lys Asn Ala Leu Leu Arg Arg Ser Ala His Ala Gly Thr Gly Ala
 1 5 10 15
 Leu Phe Pro Leu Val Arg Arg Gln Pro Ala Ser Lys Asn Val Ser Gln
 20 25 30
 Arg Arg Ala Ala Arg Lys Arg Ala Gly Ala Arg Glu Lys Leu Tyr Asn
 35 40 45
 Arg Ala Arg Arg Val Ala Gly Val Phe Ile Tyr Pro Phe Thr Ser Arg
 50 55 60
 Leu Val Tyr Ser Gly Ala Ile Met Ser Ala Glu Lys Leu Phe Thr Pro
 65 70 75 80
 Leu Lys Val Gly Ala Val Thr Ala Pro Asn Arg Val Phe Met Ala Pro
 85 90 95
 Leu Thr Arg Leu Arg Ser Ile Glu Pro Gly Asp Ile Pro Thr Pro Leu
 100 105 110
 Met Gly Glu Tyr Tyr Arg Gln Arg Ala Ser Ala Gly Leu Ile Ile Ser
 115 120 125
 Glu Ala Thr Gln Ile Ser Ala Gln Ala Lys Gly Tyr Ala Gly Ala Pro
 130 135 140
 Gly Leu His Ser Pro Glu Gln Ile Ala Ala Trp Lys Lys Ile Thr Ala
 145 150 155 160
 Gly Val His Ala Glu Asp Gly Arg Ile Ala Val Gln Leu Trp His Thr
 165 170 175
 Gly Arg Ile Ser His Ser Ser Ile Gln Pro Gly Gly Gln Ala Pro Val
 180 185 190
 Ser Ala Ser Ala Leu Asn Ala Asn Thr Arg Thr Ser Leu Arg Asp Glu
 195 200 205
 Asn Gly Asn Ala Ile Arg Val Asp Thr Thr Thr Pro Arg Ala Leu Glu
 210 215 220
 Leu Asp Glu Ile Pro Gly Ile Val Asn Asp Phe Arg Gln Ala Val Ala
 225 230 235 240
 Asn Ala Arg Glu Ala Gly Phe Asp Leu Val Glu Leu His Ser Ala His

245 250 255
 Gly Tyr Leu Leu His Gln Phe Leu Ser Pro Ser Ser Asn Gln Arg Thr
 260 265 270
 Asp Gln Tyr Gly Gly Ser Val Glu Asn Arg Ala Arg Leu Val Leu Glu
 275 280 285
 Val Val Asp Ala Val Cys Asn Glu Trp Ser Ala Asp Arg Ile Gly Ile
 290 295 300
 Arg Val Ser Pro Ile Gly Thr Phe Gln Asn Val Asp Asn Gly Pro Asn
 305 310 315 320
 Glu Glu Ala Asp Ala Leu Tyr Leu Ile Glu Glu Leu Ala Lys Arg Gly
 325 330 335
 Ile Ala Tyr Leu His Met Ser Glu Pro Asp Trp Ala Gly Gly Lys Pro
 340 345 350
 Tyr Ser Glu Ala Phe Arg Gln Lys Val Arg Glu Arg Phe His Gly Val
 355 360 365
 Ile Ile Gly Ala Gly Ala Tyr Trp Ala Glu Lys Ala Glu Asp Leu Ile
 370 375 380
 Gly Lys Gly Leu Ile Asp Ala Val Ala Phe Gly Arg Asp Tyr Ile Ala
 385 390 395 400
 Asn Pro Asp Leu Val Ala Arg Leu Gln Lys Lys Ala Glu Leu Asn Pro
 405 410 415
 Gln Arg Pro Glu Ser Phe Tyr Gly Gly Glu Ala Glu Gly Tyr Thr Asp
 420 425 430
 Tyr Pro Ser Leu
 435

<210> 6303
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 6303
 Ser Ile Pro Leu Val Asn Glu Glu Ile Met Arg Leu Leu His Thr Met
 1 5 10 15
 Leu Arg Val Gly Asp Leu Gln Arg Ser Ile Asp Phe Tyr Thr Asn Val
 20 25 30
 Leu Gly Met Lys Leu Leu Arg Thr Ser Glu Asn Pro Glu Tyr Lys Tyr
 35 40 45
 Ser Leu Ala Phe Val Gly Tyr Gly Pro Glu Ser Asp Glu Ala Val Ile
 50 55 60
 Glu Leu Thr Tyr Asn Trp Gly Val Asp Ser Tyr Glu Leu Gly Thr Ala
 65 70 75 80
 Tyr Gly His Ile Ala Leu Glu Val Gly Asn Ala Ala Glu Ala Cys Glu
 85 90 95
 Arg Ile Arg Ser Asn Gly Gly Asn Val Thr Arg Glu Ala Gly Pro Val
 100 105 110
 Lys Gly Gly Thr Thr Val Ile Ala Phe Val Glu Asp Pro Asp Gly Tyr
 115 120 125
 Lys Ile Glu Leu Ile Glu Ala Lys Asp Ala Gly Arg Gly Leu Gly Asn
 130 135 140

145

<210> 6304
 <211> 223
 <212> PRT
 <213> Enterobacter cloacae

<400> 6304
 Glu Thr Leu Met Ser Asp Asn Ala Gln Phe Thr Gly Leu Cys Asp Arg
 1 5 10 15

Phe Arg Gly Phe Tyr Pro Val Val Ile Asp Val Glu Thr Ala Gly Phe
 20 25 30
 Asn Ala Lys Thr Asp Ala Leu Leu Glu Ile Ala Ala Ile Thr Leu Lys
 35 40 45
 Met Asp Glu Gln Gly Trp Leu Val Pro Asp Thr Thr Leu His Phe His
 50 55 60
 Val Glu Pro Phe Glu Gly Ala Asn Leu Gln Pro Glu Ala Leu Ala Phe
 65 70 75 80
 Asn Gly Ile Asp Pro Thr Asn Pro Leu Arg Gly Ala Val Ser Glu Tyr
 85 90 95
 Glu Ala Leu His Ala Ile Phe Lys Met Val Arg Lys Gly Met Lys Glu
 100 105 110
 Asn Asp Cys Ser Arg Ala Ile Met Val Ala His Asn Ala Thr Phe Asp
 115 120 125
 His Ser Phe Thr Met Ala Ala Ala Glu Arg Ala Ser Leu Lys Arg Asn
 130 135 140
 Pro Phe His Pro Phe Val Thr Phe Asp Thr Ala Ala Leu Ser Gly Leu
 145 150 155 160
 Ala Leu Gly Gln Thr Val Leu Ser Lys Ala Cys Ile Thr Ala Gly Ile
 165 170 175
 Ala Phe Asp Gly Thr Gln Ala His Ser Ala Leu Tyr Asp Thr Glu Arg
 180 185 190
 Thr Ala Glu Leu Phe Cys Glu Ile Val Asn Arg Trp Lys Arg Leu Gly
 195 200 205
 Gly Trp Pro Leu Pro Met Gly Asp Glu Ala Asp Leu Gln Ser
 210 215 220

<210> 6305

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 6305

Leu Leu Leu Ile Leu Trp Ile Arg Ile Asp Arg Phe Cys Lys Ser His
 1 5 10 15
 Ala Gly Met His Cys Gly Leu His Leu Ser Gly Asp Cys Pro Val Ala
 20 25 30
 Arg Ile Thr Lys Ile Ser Met Thr Leu Cys Ala Leu Leu Phe Thr Thr
 35 40 45
 Leu Ser Phe Thr Pro Ala Ala Asn Ala Ser Glu Gln Ala Arg His Ser
 50 55 60
 Ala Val Gln Lys Thr His Leu Ala Lys Ser Thr Glu Arg Lys Lys Lys
 65 70 75 80
 Thr Thr Ser Lys Thr Val Lys Lys Lys Ile Thr Ala Gln Thr Lys Lys
 85 90 95
 Thr Ala Ser Ser Lys Thr Lys Thr Leu Arg Ser Gly Thr His Lys Thr
 100 105 110
 Thr Arg Thr Thr Ala Ser Leu Val Asn Glu Lys Cys Thr Val Arg Lys
 115 120 125
 Gly His Lys Thr Lys Cys Ala Lys Val Thr Lys Leu Ala Asp Val His
 130 135 140
 Lys Ala Arg Met Gln Lys Ala Gln Lys Thr Ala Met Asn Lys Leu Met
 145 150 155 160
 Gly Gln Ile Gly Lys Pro Tyr Arg Trp Gly Gly Thr Ser Pro Arg Thr
 165 170 175
 Gly Phe Asp Cys Ser Gly Leu Val Tyr Tyr Ala Tyr Lys Asp Leu Val
 180 185 190
 Lys Phe Arg Ile Pro Arg Thr Ala Asn Glu Met Tyr His Leu Arg Asp
 195 200 205
 Ala Ala Pro Val Asn Arg Gly Glu Leu Gln Asn Gly Asp Leu Val Phe
 210 215 220

Phe Arg Thr Gln Gly Arg Gly Thr Ala Asp His Val Gly Val Tyr Val
 225 230 235 240
 Gly Asn Gly Lys Phe Ile Gln Ser Pro Arg Ser Gly Gln Asp Ile Gln
 245 250 255
 Ile Thr Ser Leu Ser Glu Asp Tyr Trp Val Arg His Tyr Val Gly Ala
 260 265 270
 Arg Arg Val Met Thr Pro Lys Thr Ile Arg
 275 280

<210> 6306

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6306

Ser Lys Gly Met Ser Arg His Thr Glu His Asp Thr Arg Glu His Leu
 1 5 10 15
 Leu Ala Thr Gly Glu Arg Leu Cys Met His Arg Gly Phe Thr Gly Met
 20 25 30
 Gly Leu Ser Glu Leu Leu Lys Thr Ala Glu Val Pro Lys Gly Ser Phe
 35 40 45
 Tyr His Tyr Phe Arg Ser Lys Glu Ala Phe Gly Val Ala Met Leu Glu
 50 55 60
 Arg His Tyr Ala Ser Tyr His Gln Arg Leu Ala Ala His Phe Ala Ser
 65 70 75 80
 Gly Glu Gly Asp Tyr Arg Asp Arg Val Leu Asn Tyr Tyr Gln Glu Thr
 85 90 95
 Leu Thr Gln Phe Cys Gln Gln Gly Ile Ile Ser Gly Cys Leu Thr Val
 100 105 110
 Lys Leu Ser Ala Glu Val Cys Asp Leu Ser Glu Asp Met Arg Thr Ala
 115 120 125
 Met Asp Lys Gly Ala Ser Gly Val Ile Ala Leu Leu Ala Gln Ala Leu
 130 135 140
 Glu Ser Gly Arg Asn Glu Lys Thr Leu Ser Phe Ser Gly Asp Pro Leu
 145 150 155 160
 Thr Gln Ala Gln Val Leu Tyr Ser Leu Trp Leu Gly Ala Asn Leu Gln
 165 170 175
 Ala Lys Met Ser Arg Ser Ala Val Pro Leu Glu Ser Ala Leu Ala His
 180 185 190
 Val Lys Asn Cys Ile Thr Ala Pro Gly Val
 195 200

<210> 6307

<211> 589

<212> PRT

<213> Enterobacter cloacae

<400> 6307

Gly Arg Asn Thr Cys Leu Trp Ser Arg His Asn Lys Met Ala Cys Ser
 1 5 10 15
 Ala Thr Asp Val Cys His Lys Gln Asp Ile Lys Val Ser Leu Ile Phe
 20 25 30
 His Ser Tyr Thr Arg Arg Ile Asp Ile Thr Asn Gly Leu Leu Ile Met
 35 40 45
 Trp Phe Ala Lys Lys Leu His Cys Asn Asp Ile Lys Phe Thr Leu Gly
 50 55 60
 Cys Ala Phe Phe Phe Thr Val Leu Asn Ala Leu Phe Ile Gln Arg Ser
 65 70 75 80
 Trp Ser Ile Ile Ala Pro Ala His Leu His Asp Val Leu Phe Ala Ala
 85 90 95
 Ser Val Pro Leu Val Leu Phe Cys Gly Trp Val Ile Val Phe Ser Leu

<210> 6308
 <211> 274
 <212> PRT
 <213> Enterobacter cloacae

<400> 6308
 Ile Tyr Pro Val Thr Ala Gln Arg Ser Gly His Ser Asp His Leu Ser
 1 5 10 15
 Gln Arg Arg Leu Leu Gly Ala Pro Leu Cys Gly Cys Ala Pro Arg Asp
 20 25 30
 Asp Ala Lys Asn His Pro Leu Ala Pro Ala Leu Pro Pro Leu Trp Gln
 35 40 45
 Gly Lys Phe Leu Phe Cys Ile Pro Phe Gln Phe Ala Ile Leu Ser Leu
 50 55 60
 Leu Ser Val Arg Leu Leu Ala Thr Tyr Lys Thr Ile Arg Arg Glu Ala
 65 70 75 80
 Met Ser Phe Glu Leu Pro Ala Leu Pro Tyr Ala Lys Asp Ala Leu Ala
 85 90 95
 Pro His Ile Ser Ala Glu Thr Leu Glu Tyr His Tyr Gly Lys His His
 100 105 110
 Gln Thr Tyr Val Thr Asn Leu Asn Asn Leu Ile Lys Gly Thr Asp Phe
 115 120 125
 Glu Gly Lys Thr Leu Glu Glu Ile Val Arg Ser Ser Asp Gly Gly Val
 130 135 140
 Phe Asn Asn Ala Ala Gln Val Trp Asn His Thr Phe Tyr Trp His Cys
 145 150 155 160
 Leu Ala Pro Asn Ala Gly Gly Glu Pro Asp Gly Glu Leu Ala Ala Ala
 165 170 175
 Ile Asn Ala Ala Phe Gly Ser Phe Ala Asp Phe Lys Ala Lys Phe Thr
 180 185 190
 Asp Ala Ala Val Lys Asn Phe Gly Ser Gly Trp Thr Trp Leu Val Lys
 195 200 205
 Glu Ala Asp Gly Lys Leu Ala Ile Val Ser Thr Ser Asn Ala Gly Thr
 210 215 220
 Pro Leu Thr Thr Ser Ala Thr Pro Leu Met Thr Val Asp Val Trp Glu
 225 230 235 240
 His Ala Tyr Tyr Ile Asp Tyr Arg Asn Ala Arg Pro Asn Tyr Leu Glu
 245 250 255
 His Phe Trp Ala Leu Val Asn Trp Glu Phe Val Ala Lys Asn Phe Ala
 260 265 270
 Ala

<210> 6309
 <211> 138
 <212> PRT
 <213> Enterobacter cloacae

<400> 6309
 Arg Arg Asn Tyr Leu Gly Gly Lys Phe Ala Asp Arg Ser Val Ser Gly
 1 5 10 15
 Thr Leu Lys Gly Phe Leu Thr Leu Leu Ile Val Ile Met Val Ala Ile
 20 25 30
 Pro Trp Leu Ala Arg Asn Glu Val Gly Ala Ala Ile Ala Met Val Val
 35 40 45
 Trp Gly Ala Ala Thr Phe Ala Val Val Pro Pro Leu Gln Met Arg Val
 50 55 60
 Met Arg Val Ala His Gly Ala Pro Gly Leu Ser Ser Ser Val Asn Ile
 65 70 75 80
 Gly Ala Phe Asn Leu Gly Asn Ala Leu Gly Ala Ala Ala Gly Gly Ala

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<210> 6310
<211> 120
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6311
<211> 211
<212> PRT
<213> Enterobacter cloacae
```

4400> 6311																	
Ser	Arg	Arg	Gly	Ser	Ala	Arg	Ala	Leu	Ser	Gly	Gly	Arg	Leu	His	Tyr		
1				5				10					15				
Lys	Ala	Cys	Arg	Leu	Pro	Ser	Pro	Ala	Arg	Thr	Cys	Ala	Asp	Arg	Arg		
			20					25					30				
Tyr	His	Val	Ser	Pro	Ala	Leu	Gln	Ser	Asp	Thr	Ala	Arg	Leu	Leu	Leu		
		35					40						45				
Arg	Ser	Asp	Arg	Cys	Arg	Arg	Ser	Gly	Lys	Tyr	Arg	Ser	Gly	Arg	His		
		50					55				60						
Glu	Tyr	Gln	Cys	Gly	Leu	Arg	Ser	Thr	His	Tyr	Arg	Gln	His	Pro	Pro		
					70					75					80		
Leu	Gln	Ala	Pro	Asp	Ala	Arg	Gly	Phe	Gln	Arg	Cys	Arg	Arg	Thr	Gly		
				85					90					95			
Arg	Tyr	Ala	Gly	Trp	Lys	Lys	Gly	Thr	Gly	Thr	Asp	Ala	Ala	Gly	Asn		
			100					105					110				
Arg	Ala	Gln	Ser	Ala	Ala	Gln	Pro	Gly	Arg	Ser	Pro	Leu	His	Glu	Arg		
			115				120					125					
Trp	Arg	Arg	Pro	Asp	Gly	Asn	His	Ser	Gln	Tyr	Pro	Gly	Ser	Arg	Pro		
						135					140						
Ala	Pro	Ala	Arg	Val	Ala	Trp	Trp	Cys	Gln	Arg	Gly	Ser	His	Tyr	Arg		
					150					155				160			
Phe	His	Arg	Ala	Gly	Lys	Cys	Gly	Tyr	Trp	Arg	Ser	Gly	Gln	Lys	Gln		
				165					170					175			
Lys	Pro	Ala	Pro	Asp	Arg	Gln	Ala	Gly	Cys	Cys	Cys	Val	Arg	Tyr	Asp		
			180					185					190				

Arg Cys Ala Thr Ala Glu Pro Gln Tyr Gly His Leu Gln His Glu His
 195 200 205
 Leu Arg
 210

<210> 6312

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6312

Gly Asn Ile Met Lys Arg Phe Leu Ser Val Ala Leu Leu Ala Ala Leu
 1 5 10 15
 Leu Ala Gly Cys Ala His Asp Ser Pro Cys Val Pro Val Tyr Asp Asp
 20 25 30
 Gln Gly Arg Leu Val His Thr Asn Thr Cys Met Lys Gly Thr Thr Gln
 35 40 45
 Asp Asn Trp Glu Thr Ala Gly Ala Ile Ala Gly Gly Ala Ala Ala Ile
 50 55 60
 Ala Gly Leu Thr Leu Gly Ile Val Ala Leu Thr Lys
 65 70 75

<210> 6313

<211> 991

<212> PRT

<213> Enterobacter cloacae

<400> 6313

Arg Pro Tyr Pro Leu Ser Ile Cys Ala Pro Ala Val Lys Ile Thr Gln
 1 5 10 15
 Val Ile Glu Gln Asn Met Asn Gly Ile Asp Asn Leu Met Tyr Met Ser
 20 25 30
 Ser Thr Ser Asp Ser Ala Gly Asn Val Thr Ile Thr Leu Thr Phe Glu
 35 40 45
 Ser Gly Thr Asp Pro Asp Ile Ala Gln Val Gln Val Gln Asn Lys Leu
 50 55 60
 Gln Leu Ala Met Pro Leu Leu Pro Gln Glu Val Gln Gln Gln Gly Ile
 65 70 75 80
 Gly Val Glu Lys Ser Ser Ser Ser Phe Leu Val Ala Gly Phe Val
 85 90 95
 Ser Asp Asn Lys Asn Leu Thr Gln Asp Asp Ile Ser Asp Tyr Val Ala
 100 105 110
 Ser Asn Val Lys Asp Ala Ile Ser Arg Thr Ser Gly Val Gly Asp Val
 115 120 125
 Gln Leu Phe Gly Ala Gln Tyr Ala Met Arg Ile Trp Leu Asp Ser Asn
 130 135 140
 Ala Met Asn Lys Tyr Gln Leu Thr Pro Leu Asp Ile Ile Asn Gln Leu
 145 150 155 160
 Lys Thr Gln Asn Asp Gln Ile Ala Ala Gly Gln Leu Gly Gly Thr Pro
 165 170 175
 Ser Val Pro Gly Gln Gln Leu Asn Ala Ser Ile Ile Ala Gln Thr Arg
 180 185 190
 Leu Lys Ser Pro Glu Glu Phe Gly Arg Val Thr Leu Lys Val Asn Gln
 195 200 205
 Asp Gly Ser Met Val His Leu Lys Asp Val Ala Arg Ile Glu Leu Gly
 210 215 220
 Gly Glu Asn Tyr Asn Met Val Thr Lys Ile Asn Gly Gln Ala Ala Thr
 225 230 235 240
 Gly Leu Gly Ile Lys Leu Ala Thr Gly Ala Asn Ala Leu Asp Thr Ala
 245 250 255
 Ala Ala Ile Lys Ser Lys Leu Ala Gln Leu Gln Pro Phe Phe Pro Gln

260										265										270									
Gly	Leu	Lys	Lys	Val	Val	Tyr	Pro	Tyr	Asp	Thr	Thr	Pro	Phe	Val	Lys	Ile													
Ser	Ile	His	Glu	Val	Val	Lys	Lys	Thr	Leu	Phe	Glu	Ala	Ile	Val	Leu	Val													
Phe	Leu	Val	Met	Tyr	Leu	Phe	Leu	Gln	Asn	Leu	Arg	Ala	Thr	Leu	Ile	320													
305					310						315																		
Pro	Thr	Ile	Ala	Val	Pro	Val	Val	Leu	Leu	Gly	Thr	Phe	Ala	Val	Leu	Val													
				325						330						335													
Ala	Ala	Phe	Gly	Phe	Ser	Ile	Asn	Thr	Leu	Thr	Met	Phe	Gly	Met	Val														
			340						345					350															
Leu	Ala	Ile	Gly	Leu	Leu	Val	Asp	Asp	Ala	Ile	Val	Val	Val	Glu	Asn														
			355				360						365																
Val	Glu	Arg	Val	Met	Val	Glu	Asp	Lys	Leu	Pro	Pro	Lys	Glu	Ala	Thr														
			370			375																							
Gln	Lys	Ser	Met	Glu	Gln	Ile	Gln	Gly	Ala	Leu	Val	Gly	Ile	Ala	Met														
385					390						395																		
Val	Leu	Ser	Ala	Val	Phe	Ile	Pro	Met	Ala	Phe	Phe	Gly	Gly	Ser	Thr														
				405						410																			
Gly	Ala	Ile	Tyr	Arg	Gln	Phe	Ser	Leu	Thr	Ile	Val	Ser	Ala	Met	Ala														
				420					425					430															
Leu	Ser	Val	Leu	Val	Ala	Leu	Ile	Leu	Thr	Pro	Ala	Leu	Cys	Ala	Thr														
				435				440					445																
Leu	Leu	Lys	Pro	Val	Ser	Ser	Glu	His	His	Glu	Lys	Lys	Gly	Gly	Phe														
				450		455					460																		
Phe	Gly	Trp	Phe	Asn	Ala	Leu	Phe	Asp	Lys	Ser	Val	Glu	His	Tyr	Ser														
465					470					475																			
Asn	Ser	Val	Ser	Gly	Ile	Leu	Arg	Lys	Thr	Gly	Arg	Tyr	Leu	Leu	Val														
				485					490					495															
Tyr	Val	Ile	Ile	Val	Gly	Gly	Met	Ala	Val	Leu	Phe	Leu	Arg	Leu	Pro														
				500				505						510															
Ser	Ser	Phe	Leu	Pro	Glu	Glu	Asp	Gln	Gly	Val	Phe	Met	Thr	Met	Val														
				515			520						525																
Gln	Leu	Pro	Ala	Gly	Ala	Thr	Gln	Met	Arg	Thr	Gln	Gln	Val	Leu	Asp														
						535																							
Gln	Val	Gln	Asp	Tyr	Tyr	Leu	Thr	Lys	Glu	Lys	Ala	Asn	Val	Glu	Ser														
545					550					555																			
Val	Phe	Thr	Val	Asn	Gly	Phe	Ser	Phe	Ser	Gly	Gln	Gly	Gln	Asn	Ser														
				565						570																			
Gly	Ile	Ala	Phe	Val	Ser	Leu	Lys	Pro	Trp	Glu	Glu	Arg	Pro	Gly	Lys														
				580																									

Phe Ser Ala Phe Ser Ser Ser His Trp Val Tyr Gly Ser Pro Arg Leu
 755 760 765
 Glu Arg Tyr Asn Gly Met Pro Ser Met Glu Ile Leu Gly Glu Ser Ala
 770 775 780
 Pro Gly Lys Ser Thr Gly Glu Ala Met Ala Leu Met Glu Asn Leu Ala
 785 790 795 800
 Ser Lys Leu Pro Ser Gly Ile Gly Tyr Asp Trp Thr Gly Met Ser Tyr
 805 810 815
 Gln Glu Arg Leu Ser Gly Asn Gln Ala Pro Ala Leu Tyr Ala Ile Ser
 820 825 830
 Leu Ile Val Val Phe Leu Cys Leu Ala Ala Leu Tyr Glu Ser Trp Ser
 835 840 845
 Ile Pro Phe Ser Val Met Leu Val Val Pro Leu Gly Val Ile Gly Ala
 850 855 860
 Leu Leu Ala Ala Ser Met Arg Gly Leu Asn Asn Asp Val Tyr Phe Gln
 865 870 875 880
 Val Gly Leu Leu Thr Thr Ile Gly Leu Ser Ala Lys Asn Ala Ile Leu
 885 890 895
 Ile Val Glu Phe Ala Lys Asp Leu Met Asp Lys Glu Gly Lys Gly Ile
 900 905 910
 Ile Glu Ala Thr Leu Glu Ala Ser Arg Met Arg Leu Arg Pro Ile Leu
 915 920 925
 Met Thr Ser Leu Ala Phe Ile Leu Gly Val Met Pro Leu Val Ile Ser
 930 935 940
 Ser Gly Ala Gly Ser Gly Ala Gln Asn Ala Val Gly Thr Gly Val Met
 945 950 955 960
 Gly Gly Met Leu Ser Ala Thr Leu Leu Ala Ile Phe Phe Val Pro Val
 965 970 975
 Phe Phe Val Val Val Arg Arg Arg Phe Thr Lys His Lys Asp
 980 985 990

<210> 6314

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 6314

Leu Ser Leu Ser Pro Ala Thr Leu Val Val Trp Phe Arg Asn Ala Gly
 1 5 10 15
 Thr Leu Ser Met Lys Lys Ile Ala Ile Ile Gly Ser Gly Pro Thr Gly
 20 25 30
 Ile Tyr Thr Phe Tyr Ser Leu Leu Asn Asn Ala Ala Pro Leu Ser Ile
 35 40 45
 Thr Val Phe Glu Lys Ala Asp Gln Pro Gly Val Gly Met Pro Tyr Ser
 50 55 60
 Asp Glu Asp Asn Ser Arg Leu Met Leu Ala Asn Ile Ala Ser Ile Glu
 65 70 75 80
 Ile Pro Pro Ile Phe Ile Thr Tyr Leu Asp Trp Leu Lys Gln Gln Asn
 85 90 95
 Ala Ala Arg Leu Ala Arg Tyr Asn Val Asp Ser Glu Lys Leu His Asp
 100 105 110
 Arg Gln Phe Leu Pro Arg Ile Leu Leu Gly Glu Tyr Phe His Asp Arg
 115 120 125
 Phe Leu Ala Gly Ala Ala Glu Ala Asn Asn Ala Gly Phe His Ile Glu
 130 135 140
 Val His Pro Thr Ala Glu Ile Pro Asp Ile Asn Ala Asp Ala Asn Ala
 145 150 155 160
 Trp Pro Phe His

165

<210> 6315

<211> 106
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6315
 Thr Leu Ala Asp Gly Cys Ala His Ile Ala Gln Lys Ser Ile Phe Phe
 1 5 10 15
 Arg Arg Ile Leu Arg Ser Glu Lys His Met Thr Leu Asn Ser Asn His
 20 25 30
 Ser Asp Trp Arg Asp Met Leu Met Lys Arg Gln Asp Ile Asn Ala Leu
 35 40 45
 Lys Asn Phe Asp Phe Leu Ala Arg Ser Phe Ala Arg Met Tyr Ala Gln
 50 55 60
 Gly Gln Pro Val Asp Ile Asp Ala Val Thr Gly Asn Met Ser Asn Lys
 65 70 75 80
 Gln Gln Ala Trp Phe Arg Glu Arg Tyr Asp His Tyr Arg Lys Gln Ala
 85 90 95
 Glu Arg Ala Arg Val Ile Glu Leu Arg
 100 105

<210> 6316
 <211> 174
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6316
 His Leu Phe Leu Leu Lys Lys Gly Ile Ala Met Ala Asp Ser Phe Gln
 1 5 10 15
 Asn Glu Val Pro Lys Ala Arg Ile Asn Leu Lys Leu Ala Leu His Thr
 20 25 30
 Gly Gly Ala Gln Lys Lys Ile Glu Leu Pro Leu Lys Leu Leu Thr Val
 35 40 45
 Gly Asp Phe Ser Asn Gly Lys Glu Asn Arg Pro Leu Ser Glu Arg Glu
 50 55 60
 Lys Ile Asn Val Asn Lys Asn Asn Phe Asn Ser Val Leu Ser Glu Phe
 65 70 75 80
 Asn Pro Glu Val Asn Leu Thr Val Pro Asn Thr Met Ala Gly Asp Gly
 85 90 95
 Ser Glu Glu Ser Ile Lys Leu Asn Phe Ser Asp Ile Lys Asp Phe Glu
 100 105 110
 Pro Glu Gln Val Ala Arg Gln Ile Pro Gln Leu Arg Ala Met Leu Ala
 115 120 125
 Met Arg Asn Leu Leu Arg Asp Leu Lys Ser Asn Leu Leu Asp Asn Ala
 130 135 140
 Thr Phe Arg Lys Glu Leu Glu Lys Ile Leu Lys Asp Pro Ala Leu Ser
 145 150 155 160
 Gln Glu Leu Arg Asp Glu Met Ser Ala Leu Ala Pro Lys
 165 170

<210> 6317
 <211> 146
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6317
 Gly Asp Ala Leu Ser Met Met Thr Ser Ile Met Asp Thr Asp Met Lys
 1 5 10 15
 Thr Arg Ile Leu Leu Thr Val Ser Val Leu Phe Asn Met Gln Ala
 20 25 30
 Asp Ala Ala Arg Gly Arg Gln Pro Cys Ser Gly Ser Lys Gly Gly Ile
 35 40 45

Ala His Cys Thr Ser Asp Gly Arg Phe Val Cys Asn Asp Gly Ser Leu
 50 55 60
 Ser Gln Ser Lys Arg Phe Cys Ser Gly Tyr Gly Ala Ser Glu Leu Pro
 65 70 75 80
 Arg Gln Val Lys Pro Ser Pro Ser Ala Arg Lys Ala Gln Thr Lys Lys
 85 90 95
 Arg Ile Ala Val Lys Gly Gln Glu Gln Arg Val Val Glu Asn Asn Ala
 100 105 110
 Gln Phe Asp Thr Gln Pro Arg Gln Pro Thr Cys Ala Pro Leu Tyr Met
 115 120 125
 Ala Asn Lys Pro Gly Phe Thr His Leu Pro Ile Cys Ser Gly Asn Gln
 130 135 140
 Tyr
 145

<210> 6318

<211> 181

<212> PRT

<213> Enterobacter cloacae

<400> 6318

Lys Ala Gly Lys Glu His Leu Pro Ile Arg His Glu Leu Phe Glu Tyr
 1 5 10 15
 Ser Phe Leu Leu Phe Arg Arg Tyr Met Met Thr Leu Arg Thr Phe Pro
 20 25 30
 Val Leu Asn Asp Leu Ser Asp Ser Leu Phe Ala Asp Arg Phe Asn Arg
 35 40 45
 Ile Asp Arg Leu Phe Ser Gln Leu Thr Gly Ser Thr Pro Leu Pro Ser
 50 55 60
 Thr Pro Ser Tyr Asn Ile Arg Arg Leu Gly Asp Asn Arg Tyr Glu Leu
 65 70 75 80
 Thr Leu Ser Val Pro Gly Trp Lys Glu Ser Glu Leu Glu Ile Glu Thr
 85 90 95
 Val Gly Gly Gln Leu Asn Ile Ser Gly Lys Arg Glu Glu Glu Lys Thr
 100 105 110
 Glu Asn Gly Glu Glu Gly Trp Ile His Arg Gly Ile Ser Arg Ser Asp
 115 120 125
 Phe Arg Ala Ser Tyr Ser Leu Pro Glu His Val Lys Val Thr Gly Ala
 130 135 140
 Ser Leu Glu Asn Gly Leu Leu Ala Ile Glu Leu His Gln Asp Ile Pro
 145 150 155 160
 Glu Glu Glu Lys Pro Gln Arg Ile Ala Ile Asn Asn Asn Pro Ala Ile
 165 170 175
 Glu His Lys Pro
 180

<210> 6319

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 6319

Ile Thr Trp Gly Phe Ile Met Phe Asn Glu Val His Ser Leu Pro Gly
 1 5 10 15
 His Thr Leu Leu Leu Ile Thr Lys Pro Ser Leu Gln Ala Thr Ala Leu
 20 25 30
 Leu Gln His Leu Lys Gln Cys Leu Ser Leu Asn Gly Lys Leu His Asn
 35 40 45
 Ile Gln Arg Ser Phe Asp Asp Ile Ala Ser Gly Ser Ile Ile Leu Leu
 50 55 60
 Asp Met Met Glu Ala Asp Lys Lys Leu Ile His Tyr Trp Gln Asp Asn

```

65          70          75          80
Leu Ser Arg Lys Asn Asn Ile Arg Val Leu Leu Leu Asn Thr Pro
85          90          95
Asp Glu Tyr Pro Phe Arg Glu Ile Glu Ser Trp Pro His Ile Asn Gly
100         105         110
Val Phe Tyr Val Thr Glu Glu Glu Asn Arg Val Val Glu Gly Leu Gln
115         120         125
Gly Ile Leu Arg Gly Glu Cys Tyr Phe Ser Gln Lys Leu Ala Ser Tyr
130         135         140
Leu Ile Thr His Ser Gly Asn Tyr Arg Tyr Asn Ser Ser Glu Ser Ala
145         150         155         160
Leu Leu Thr His Arg Glu Lys Glu Ile Leu Asn Lys Leu Arg Ile Gly
165         170         175
Ala Ser Asn Ile Glu Ile Ala Arg Ser Leu Phe Ile Ser Glu Asn Thr
180         185         190
Val Lys Thr His Leu Tyr Asn Leu Phe Lys Lys Ile Ala Val Lys Asn
195         200         205
Arg Thr Gln Ala Val Ser Trp Ala Asn Asp Asn Leu Arg Arg
210         215         220

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<210> 6320

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6320

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Val Leu Thr Thr Ile Pro Ile Ser Glu Ala Val Met Arg Leu Ala His
1          5          10          15
Thr Val Ile Ser Leu Met Leu Ile Ala Pro Leu Ser Trp Ala Gly Asn
20         25         30
Met Thr Phe Gln Phe Arg Asn Pro Asn Phe Gly Gly Asn Pro Asn Asn
35         40         45
Gly Ala Phe Met Leu Asn Gln Ala Gln Ala Gln Asn Ser Tyr Lys Asp
50         55         60
Pro Ser Tyr Asp Asp Asp Phe Gly Ile Glu Thr Pro Ser Ala Leu Asp
65         70         75         80
Asn Phe Thr Gln Ala Ile Gln Ser Gln Ile Leu Gly Gly Leu Leu Thr
85         90         95
Asn Ile Asn Thr Gly Lys Pro Gly Arg Met Val Thr Asn Asp Phe Ile
100        105        110
Val Asp Ile Ala Asn Lys Asp Gly Gln Leu Gln Leu Asn Val Thr Asp
115        120        125
Arg Lys Thr Gly Lys Thr Ser Thr Ile Gln Val Ser Gly Leu Gln Thr
130        135        140
Ser Ser Thr Asp Phe
145          150

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<210> 6321

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6321

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Leu Leu Lys Ile Ala Arg Arg Arg Cys Arg Gly Gln Thr Ile Thr Ser
1          5          10          15
Gly Val Asn Ser Met Lys Arg Thr Leu Ser Trp Ile Ala Ala Ala Gly
20         25         30
Ile Met Leu Ala Ala Gly Asn Leu Gln Ala Val Glu Val Glu Val Pro
35         40         45
Gly Leu Leu Thr Asp His Thr Val Thr Ser Val Gly His Asp Phe Tyr
50         55         60

```

Arg Ala Phe Ser Asp Lys Trp Glu Ser Asp Tyr Pro Gly Asn Leu Thr
 65 70 80
 Ile Asn Glu Arg Pro Ser Ala Arg Trp Gly Ser Trp Ile Thr Ile Thr
 85 90 95
 Ala Asn Gln Asp Val Ile Tyr Gln Thr Phe Leu Phe Pro Thr Lys Arg
 100 105 110
 Asp Phe Asp Gln Asn Val Ala Phe Ala Leu Ala Gln Thr Glu Glu Ala
 115 120 125
 Ile Asn Arg Leu Gln Leu Asp Lys Ala Leu Leu Ser Thr Gly Asp Leu
 130 135 140
 Ala Lys Asp Glu Phe
 145 150

<210> 6322

<211> 289

<212> PRT

<213> Enterobacter cloacae

<400> 6322

Phe Leu Asn Asn Pro Glu Ile Arg Thr Ile Ile Met Gln Arg Phe Phe
 1 5 10 15
 Ile Leu Val Ala Val Cys Leu Leu Ser Gly Cys Leu Thr Ala Pro Pro
 20 25 30
 Lys Glu Ala Ala Lys Pro Thr Leu Met Pro Arg Ala Gln Ser Tyr Arg
 35 40 45
 Asp Leu Thr His Leu Pro Val Pro Thr Gly Lys Ile Phe Val Ser Val
 50 55 60
 Tyr Asn Ile Gln Asp Glu Thr Gly Gln Phe Lys Pro Tyr Pro Ala Ser
 65 70 75 80
 Asn Phe Ser Thr Ala Val Pro Gln Ser Ala Thr Ala Met Leu Val Thr
 85 90 95
 Ala Leu Lys Asp Ser Arg Trp Phe Ile Pro Leu Glu Arg Gln Gly Leu
 100 105 110
 Gln Asn Leu Leu Asn Glu Arg Lys Ile Ile Arg Ala Ala Gln Glu Asn
 115 120 125
 Gly Thr Val Gly Val Asn Asn Arg Met Pro Leu Gln Ser Leu Thr Ala
 130 135 140
 Ala Asn Ile Met Val Glu Gly Ser Ile Ile Gly Tyr Glu Ser Asn Val
 145 150 155 160
 Lys Ser Gly Gly Ala Gly Ala Arg Tyr Phe Gly Ile Gly Ala Asp Thr
 165 170 175
 Gln Tyr Gln Leu Asp Gln Ile Ala Val Asn Leu Arg Val Val Asn Val
 180 185 190
 Ser Thr Gly Glu Ile Leu Ser Ser Val Thr Thr Ser Lys Thr Ile Leu
 195 200 205
 Ser Tyr Glu Val Gln Ala Gly Val Phe Arg Phe Ile Asp Tyr Gln Arg
 210 215 220
 Leu Leu Glu Gly Glu Ile Gly Tyr Thr Ser Asn Glu Pro Val Met Leu
 225 230 235 240
 Cys Leu Met Ser Ala Ile Glu Thr Gly Val Ile Phe Leu Ile Asn Asp
 245 250 255
 Gly Ile Asp Arg Gly Leu Trp Asp Leu Gln Asn Lys Ser Asp Val Ser
 260 265 270
 Asn Ala Val Leu Val Lys Tyr Arg Glu Met Ser Val Pro Glu Ser
 275 280 285

<210> 6323

<211> 189

<212> PRT

<213> *Enterobacter cloacae*

<400> 6323

```

Arg Asn Lys Asn Met Asn Glu Phe Ser Ile Leu Cys Arg Val Leu Gly
1      5      10      15
Thr Leu Tyr Tyr Arg Gln Pro Gln Asp Pro Leu Leu Val Pro Leu Phe
      20      25      30
Thr Leu Ile Arg Glu Gly Lys Leu Ala Gln Ser Trp Pro Leu Glu Gln
35      40      45
Asp Glu Leu Leu Glu Arg Leu Gln Lys Ser Cys Asp Met Gln Gln Ile
50      55      60
Ser Thr Asp Tyr Asn Ala Leu Phe Val Gly Glu Glu Cys Arg Val Ser
65      70      75      80
Pro Tyr Arg Ser Ala Trp Gln Glu Gly Ala Thr Glu Ala Glu Val Arg
      85      90      95
Ala Phe Leu Ser Glu Arg Gly Met Pro Leu Thr Asp Met Pro Ala Asp
      100      105      110
His Ile Gly Thr Leu Leu Leu Ala Ala Ser Trp Ile Glu Asp Asn Ala
115      120      125
Gly Asp Asp Glu Asn Glu Ala Ile Glu Thr Leu Phe Glu Thr Tyr Leu
130      135      140
Leu Pro Trp Val Gly Thr Phe Leu Gly Lys Val Glu Ala His Ala Thr
145      150      155      160
Ser Pro Phe Trp Arg Thr Leu Ala Pro Leu Thr Arg Asp Ala Ile Ala
      165      170      175
Ala Met Trp Asp Glu Leu Glu Glu Glu Asn Glu Glu
180      185

```

<210> 6324

<211> 193

<212> PRT

<213> *Enterobacter cloacae*

<400> 6324

```

Leu Glu Ser Gln Lys Ser Cys Asn Asp Thr Phe Gln Leu Ala Arg Asn
1      5      10      15
Val Leu Leu Ile Ser Phe Leu Trp Cys Ala Ser Ala Lys Met Arg Thr
      20      25      30
Met Asn Ile Leu Leu Cys Ile Ala Ile Thr Thr Gly Ile Leu Ser Gly
35      40      45
Leu Trp Ser Trp Val Ala Val Ser Leu Gly Leu Leu Ser Trp Ala Gly
50      55      60
Phe Leu Gly Cys Thr Ala Tyr Phe Ala Cys Pro Gln Gly Gly Leu Lys
65      70      75      80
Gly Leu Phe Ile Ser Gly Cys Thr Leu Leu Ser Gly Val Val Trp Ala
      85      90      95
Leu Val Ile Met Lys Gly Ser Ala Leu Ala Pro His Val Glu Ile Leu
      100      105      110
Gly Tyr Ala Met Thr Gly Ile Val Ala Phe Leu Met Cys Val Gln Ala
115      120      125
Lys His Leu Leu Leu Ser Phe Val Pro Gly Thr Phe Met Gly Ala Cys
130      135      140
Ala Thr Phe Ala Gly Gln Gly Asp Trp Lys Leu Val Val Pro Ser Leu
145      150      155      160
Met Leu Gly Leu Leu Phe Gly Tyr Ala Met Lys Asn Ser Gly Leu Trp
      165      170      175
Leu Ala Ala Arg Arg Glu Lys Ser Gln Ser Val Pro Ala Val Ser Lys
180      185      190

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<210> 6325
 <211> 267
 <212> PRT
 <213> Enterobacter cloacae

<400> 6325
 Arg Ile Ala Gln Leu Glu Gly Arg Leu Gly Val Arg Leu Ile Gln Arg
 1 5 10 15
 Thr Thr Arg Gln Phe Ala Val Thr Glu Val Gly Gln Thr Phe Tyr Gln
 20 25 30
 His Cys Lys Ala Met Leu Val Glu Ala Ala Glu Ala Val
 35 40 45
 Ala Ala Leu Gln Asp Glu Pro Arg Gly Met Val Arg Ile Thr Cys Pro
 50 55 60
 Val Thr Leu Leu His Val His Val Gly Pro Met Leu Ala Arg Phe Met
 65 70 75 80
 Ala Arg Tyr Pro Gly Ile Asn Leu Gln Leu Glu Ala Thr Asn Arg Arg
 85 90 95
 Val Asp Leu Val Ala Glu Gly Val Asp Val Ala Ile Arg Val Arg Pro
 100 105 110
 Arg Pro Phe Asp Asp Ser Glu Leu Val Leu Arg Val Leu Ala Asp Arg
 115 120 125
 Gly His Cys Leu Val Ala Gly Pro Ala Leu Ile Glu Arg Met Gly Asn
 130 135 140
 Pro Ala Met Pro Ser Glu Leu Ser Glu Trp Pro Gly Leu Ser Met Gly
 145 150 155 160
 Ala Gly Lys His Leu His Lys Trp Glu Leu Asn Gly Pro Glu Gly Ala
 165 170 175
 Lys Ala Glu Ile His Phe Thr Pro Arg Leu Val Thr Thr Asp Met Leu
 180 185 190
 Ala Leu Arg Glu Ala Ala Met Ala Gly Val Gly Val Val Gln Leu Pro
 195 200 205
 Ile Leu Met Val Lys Asp Gln Leu Ala Ser Gly Glu Leu Val Arg Val
 210 215 220
 Leu Asn Ala Trp Glu Pro Arg Arg Glu Val Ile His Ala Val Tyr Pro
 225 230 235 240
 Ser Arg Arg Gly Leu Leu Pro Ser Val Arg Thr Leu Val Asp Phe Leu
 245 250 255
 Thr Glu Glu Tyr Ala Lys Met Val Glu Asp
 260 265

<210> 6326
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 6326
 Leu Phe Val Gly Arg Val Ser Val Ala Pro Pro Asp Thr Ile Thr Ala
 1 5 10 15
 Gly Ala Ala Lys Phe Glu Ser Pro Thr Gly Val Gln His Val Lys Lys
 20 25 30
 Lys Pro Ala Phe Ser Cys Glu Leu Phe Phe Lys Tyr Gly Gly Glu Gly
 35 40 45
 Gly Ile Asp Ser Leu Arg Ser Pro Phe Gly Gln Pro Val Arg Tyr Ala
 50 55 60
 Leu Ser Leu Ser Asn Trp Leu Ser Pro Val Ala Glu Pro Arg Ser Gly
 65 70 75 80
 Gly Leu Ile Pro Pro Tyr Glu Asn Ile Lys Glu Lys Ser Pro Tyr Phe
 85 90 95
 Arg Thr Ser Ser His His Glu Tyr Gly Gly Glu Gly Ile Arg Thr
 100 105 110

Pro Asp Thr Leu Pro Tyr Thr His Phe Pro Gly Val Leu Leu Gln Pro
 115 120 125
 Leu Gly His Leu Thr Ile Leu Ser Ser Arg Cys Cys Arg Asp Gly Arg
 130 135 140

145

<210> 6327

<211> 317

<212> FRT

<213> Enterobacter cloacae

<400> 6327

Lys Ala Met Thr Met Asp Ile Ile Phe Tyr His Pro Thr Phe Asp Thr
 1 5 10 15
 Ala Tyr Trp Ile Asn Ala Leu Thr Ala Ala Leu Pro Gly Ala Arg Val
 20 25 30
 Arg Glu Trp Lys Gln Gly Asp Asn Glu His Ala Asp Tyr Ala Leu Val
 35 40 45
 Trp His Pro Pro Val Glu Met Leu Gln Gly Arg Arg Leu Lys Ala Val
 50 55 60
 Phe Ala Leu Gly Ala Gly Val Asp Ser Ile Leu Ser Lys Leu Lys Ala
 65 70 75 80
 His Pro Glu Met Leu Pro Glu Asp Ile Pro Leu Phe Arg Leu Glu Asp
 85 90 95
 Thr Gly Met Gly Gln Gln Met Gln Glu Tyr Ala Val Ser Gln Val Leu
 100 105 110
 His Trp Phe Arg Arg Phe Asp Asp Tyr Gln Ala Phe Lys Gln Gln Ser
 115 120 125
 His Trp Glu Pro Leu Pro Asp Tyr Gln Arg Glu Asp Phe Thr Ile Gly
 130 135 140
 Ile Leu Gly Ala Gly Val Leu Gly Ser Lys Val Ala Glu Ala Leu Ala
 145 150 155 160
 Pro Trp Gly Phe Pro Leu Arg Cys Trp Ser Arg Ser Arg Lys Glu Tyr
 165 170 175
 Pro Gly Val Glu Ser Phe Ala Gly Thr Asp Glu Leu Pro Ala Phe Leu
 180 185 190
 Lys Gly Thr Arg Val Leu Ile Asn Leu Leu Pro Asn Thr Ala Glu Thr
 195 200 205
 Val Gly Ile Ile Asn Gly Thr Leu Leu Asn Gln Leu Ala Glu Asp Ser
 210 215 220
 Tyr Leu Met Asn Leu Ala Arg Gly Val His Val Val Glu Asp Asp Leu
 225 230 235 240
 Leu Lys Ala Leu Asp Ser Gly Lys Leu Lys Gly Ala Met Leu Asp Val
 245 250 255
 Tyr Ser Arg Glu Pro Leu Pro Lys Asp Ser Pro Leu Trp Ala His Pro
 260 265 270
 Arg Val Ala Met Thr Pro His Ile Ala Ala Val Thr Arg Pro Ala Glu
 275 280 285
 Ala Val Ala Tyr Ile Ser His Thr Ile Ser Glu Ile Glu Lys Gly Asn
 290 295 300
 Ala Val Thr Gly Gln Val Asp Arg Gln Arg Ser Tyr
 305 310 315

<210> 6328

<211> 258

<212> FRT

<213> Enterobacter cloacae

<400> 6328

Leu Leu Ser Phe Gly Lys Thr Ala Glu Glu Arg Lys Met Tyr Pro Val

```

1           5           10           15
Asp Leu His Met His Thr Val Ala Ser Thr His Ala Tyr Ser Asn Leu
20
His Asp Tyr Ile Ala Gln Ala Lys Leu Lys Gly Ile Lys Leu Phe Ala
35
Ile Thr Asp His Gly Pro Asp Met Ala Asp Ala Pro His Tyr Trp His
50
Phe Val Asn Met Arg Ile Trp Pro Arg Leu Val Asp Gly Ile Gly Ile
65
Leu Arg Gly Ile Glu Ala Asn Ile Lys Asn Thr Asp Gly Glu Ile Asp
85
Cys Thr Gly Pro Met Leu Thr Ser Leu Asp Leu Ile Leu Ala Gly Phe
100
His Glu Pro Val Phe Ala Pro Gln Asp Lys Glu Thr Asn Thr Ala Ala
115
Met Ile Ala Thr Ile Ala Ser Gly Asn Val His Ile Ile Ser His Pro
130
Gly Asn Pro Lys Tyr Pro Ile Asp Ile Gln Ala Val Ala Gln Ala Ala
145
Ala Lys His Arg Val Ala Leu Glu Ile Asn Ser Ser Phe Val His
165
Ser Arg Lys Gly Ser Glu Ala Asn Cys Arg Glu Val Ala Ala Val
180
Arg Asp Ala Gly Gly Met Val Ala Leu Gly Ser Asp Ser His Thr Ala
195
Phe Thr Leu Gly Asp Phe Ser Glu Cys Leu Lys Ile Leu Arg Asp Val
210
Asn Phe Pro Glu Glu Gln Ile Leu Asn Val Thr Pro Arg Arg Met Leu
225
Asp Phe Leu Glu Ser Arg Gly Met Ala Pro Ile Asp Glu Phe Ala Asp
245
Leu
250
255

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<210> 6329

<211> 509

<212> PRT

<213> Enterobacter cloacae

<400> 6329

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Val Ile Thr Lys Lys Val Ser Asn Thr Lys Ala Trp Thr Gly Ser Leu
1           5           10           15
His Gly Asp Ala Thr Phe Gln Gly Asn His Asp Ser Gly Asp Ile Phe
20
Gln Thr Asn Ala Tyr Ala Cys Gly Pro Leu Ile Asp Gly Leu Leu Gly
35
Ala Lys Val Thr Gly Leu Leu Ser Arg Arg Ala Glu Asp Lys Ile Val
50
Asn Gly Tyr Asn Glu Gln Lys Met Arg Asn Gly Gly Ile Thr Leu Asn
65
Phe Thr Pro Asp Glu Lys Asn Asp Phe Asp Leu Asp Phe Ala Arg Glu
85
Leu Gln Asp Arg Asn Ser Thr Pro Gly Met Ser Lys Ala Ala Glu Thr
100
Cys Arg Gly Thr Thr Cys Thr Pro Asn Thr Lys Ser Asp Ser Arg Tyr
115
Glu His Thr Thr Tyr Ser Leu Thr His Ser Gly Tyr Tyr Glu Asp Phe
130
Asn Thr Thr Ser Tyr Ile Gln Gln Glu Glu Thr Asn Asn Pro Gly Arg
145
Glu Met Arg Ser Tyr Asn Thr Thr Phe Asn Asn Gln Asn Gln Ile Phe
150
155
160

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165 170 175
 Leu Gly Asp His Thr Leu Thr Leu Gly Gly Gln Tyr Arg Tyr Glu Lys
 180 185 190
 Leu Arg Asp Asn Gly Asn Gln Leu Glu Ala Ala Asp Gly Leu Asn Lys
 195 200 205
 Leu Thr Arg Trp Ser Trp Ala Leu Phe Ala Glu Asp Glu Trp Ser Met
 210 215 220
 Thr Glu Ser Phe Thr Leu Thr Gly Gly Leu Arg Met Asp Lys Asp Gln
 225 230 235 240
 Asn Tyr Gly Thr Asn Trp Thr Pro Arg Gly Tyr Gly Val Trp His Leu
 245 250 255
 Ala Asp Gln Trp Thr Leu Lys Gly Gly Val Ser Ala Gly Tyr Arg Ala
 260 265 270
 Pro Asp Leu Arg Gln Ser Ser Ala Ser Trp Gly Gln Val Thr Gly Gly
 275 280 285
 Gly Arg Leu Asp Gly Ile Ile Val Gly Asn Pro Asp Leu Lys Pro Glu
 290 295 300
 Lys Ser Leu Ser Glu Glu Leu Ala Leu Leu Trp Asp Asn Asn Asp Asp
 305 310 315 320
 Leu Asn Ala Gly Val Thr Leu Phe Asn Thr Asp Phe Lys Asp Lys Ile
 325 330 335
 Thr Glu Val Arg Arg Cys Asn Ser Ser Ala Asp Pro Ala Cys Thr Ile
 340 345 350
 Gly Gly His Ser Tyr Asp Phe Val Ser Asp Arg Val Asn Val Asp Lys
 355 360 365
 Ala Asn Met Arg Gly Val Glu Ser Ser Phe Gly Trp Lys Ile Thr Arg
 370 375 380
 Asp Val Asn Trp Thr Ala Asn Tyr Thr Tyr Thr Glu Ser Glu Gln Lys
 385 390 395 400
 Ser Gly Gln Phe Ser Gly Lys Pro Leu Asn Lys Met Pro Lys His Met
 405 410 415
 Phe Asn Thr Thr Leu Asp Trp Gln Ala Thr Pro Asp Val Gly Phe Trp
 420 425 430
 Ser Arg Leu Asn Leu Arg Gly Lys Thr Ser Glu Tyr Leu Ser Arg Thr
 435 440 445
 Ser Met Ser Gln Gly Thr Pro Ser Tyr Thr Gln Val Asp Val Gly Met
 450 455 460
 Arg Tyr Asn Ala Asn Lys Asn Leu Leu Val Thr Ala Gly Val Tyr Asn
 465 470 475 480
 Val Leu Asp Lys Gln Ile Asp Tyr Asp Thr Tyr Asp Thr Val Leu Asp
 485 490 495
 Gly Arg Arg Tyr Thr Val Gly Met Thr Tyr Ser Phe
 500 505

<210> 6330

<211> 368

<212> PRT

<213> Enterobacter cloacae

<400> 6330

Ser Ile Leu Phe Leu Ser Gln Ser Ala Val Thr Phe Ser Gln Thr Lys
 1 5 10 15
 Glu Lys Val Met Ser Glu Ile Thr Leu Gln His His Arg Thr Val Trp
 20 25 30
 His Phe Val Pro Gly Leu Ala Leu Ser Ala Val Val Thr Gly Val Ala
 35 40 45
 Leu Trp Gly Gly Ser Ile Pro Ala Val Ala Gly Ala Gly Phe Ser Ala
 50 55 60
 Leu Thr Leu Ala Ile Leu Leu Gly Met Val Val Gly Asn Thr Val Tyr
 65 70 75 80
 Pro His Ile Trp Lys Ser Cys Asp Gly Gly Val Ile Phe Ala Lys Gln

85 90 95
 His Leu Leu Arg Leu Gly Ile Ile Leu Tyr Gly Phe Arg Leu Thr Phe
 100 105 110
 Ser Gln Ile Ala Asp Val Gly Val Ser Gly Ile Ala Ile Asp Val Leu
 115 120 125
 Thr Leu Ser Ser Thr Phe Leu Leu Ala Cys Phe Ile Gly Gln Lys Ile
 130 135 140
 Phe Gly Leu Asp Lys Gln Thr Ser Trp Leu Ile Gly Ala Gly Ser Ser
 145 150 155 160
 Ile Cys Gly Ala Ala Val Leu Ala Thr Glu Pro Val Val Lys Ala
 165 170 175
 Glu Ala Ser Lys Val Thr Val Ala Val Ala Thr Val Val Ile Phe Gly
 180 185 190
 Thr Leu Ala Ile Phe Leu Tyr Pro Ala Met Tyr Pro Leu Val Ala His
 195 200 205
 Trp Phe Ser Pro Glu Thr Tyr Gly Ile Tyr Ile Gly Ser Thr Met His
 210 215 220
 Glu Val Ala Gln Val Val Ala Ala Gly His Ala Ile Asn Pro Glu Ala
 225 230 235 240
 Glu Asn Ala Ala Val Ile Ala Lys Met Leu Arg Val Met Met Leu Ala
 245 250 255
 Pro Phe Leu Ile Phe Leu Ala Ala Arg Val Lys Gln Leu Ala Pro Ala
 260 265 270
 Gly Gly Ser Glu Lys Ser Lys Ile Thr Ile Pro Trp Phe Ala Ile Leu
 275 280 285
 Phe Ile Val Val Ala Val Phe Asn Ser Phe His Leu Leu Pro Lys Ala
 290 295 300
 Met Val Asp Met Leu Val Thr Leu Asp Thr Val Leu Leu Ala Met Ala
 305 310 315 320
 Met Ala Ala Leu Gly Ile Thr Thr His Val Ser Ala Leu Lys Lys Ala
 325 330 335
 Gly Ala Lys Pro Leu Leu Met Ala Leu Val Leu Phe Ile Trp Leu Ile
 340 345 350
 Val Gly Gly Gly Ala Ile Asn Leu Ala Val His Ser Leu Leu Ala
 355 360 365

<210> 6331

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 6331

Ala Phe Arg Val Asn Arg Ser Leu Phe Met Lys Tyr Val Gly Ala His
 1 5 10 15
 Val Ser Ala Ala Gly Gly Leu Ala Asn Ala Ala Ile Arg Ala Ala Glu
 20 25 30
 Ile Glu Ala Thr Ala Phe Ala Leu Phe Thr Lys Asn Gln Arg Gln Trp
 35 40 45
 Arg Ala Ala Pro Leu Thr Ala Glu Val Ile Asp Asp Phe Lys Ala Ala
 50 55 60
 Cys Glu Lys Tyr Gly Tyr Gly Pro Gly Gln Ile Leu Pro His Asp Ser
 65 70 75 80
 Tyr Leu Ile Asn Leu Gly His Pro Val Ala Glu Ala Leu Glu Lys Ser
 85 90 95
 Arg Glu Ala Phe Leu Asp Glu Val Gln Arg Cys Glu Gln Leu Gly Leu
 100 105 110
 Thr Leu Leu Asn Phe His Pro Gly Ser His Leu Met Gln Ile Asp Glu
 115 120 125
 Asp Ala Cys Leu Ala Arg Ile Ala Glu Ser Ile Asn Met Thr Leu Asp
 130 135 140
 Lys Thr Gln Gly Val Thr Ala Val Ile Glu Asn Thr Ala Gly Gln Gly

145 150 155 160
 Ser Asn Leu Gly Phe Lys Phe Glu His Leu Ala Ala Ile Ile Asp Gly
 165 170 175
 Val Glu Asp Lys Ser Arg Val Gly Val Cys Ile Asp Thr Cys His Ala
 180 185 190
 Phe Ala Ala Gly Tyr Asp Leu Arg Thr Thr Glu Ala Thr Lys Asn Thr
 195 200 205
 Phe Glu Glu Phe Glu Arg Ile Val Gly Phe Lys Tyr Leu Arg Gly Met
 210 215 220
 His Leu Asn Asp Ala Lys Ser Ala Phe Gly Ser Arg Val Asp Arg His
 225 230 235
 His Ser Leu Gly Glu Gly Asn Ile Gly His Asp Ala Phe Arg Phe Ile
 245 250 255
 Met Gln Asp Val Arg Phe Glu Gly Ile Pro Met Val Leu Glu Thr Ile
 260 265 270
 Asn Pro Asp Ile Trp Ala Glu Glu Ile Phe Trp Leu Lys Ala His Gln
 275 280 285
 Thr Pro
 290

<210> 6332

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 6332

Ala Thr Met His Ile Thr Leu Arg Gln Leu Glu Val Phe Ala Glu Val
 1 5 10 15
 Leu Lys Ser Gly Ser Thr Thr Gln Ala Ser Gln Met Leu Ala Leu Ser
 20 25 30
 Gln Ser Ala Val Ser Ala Ala Leu Thr Asp Leu Glu Gly Gln Leu Gly
 35 40 45
 Val Gln Leu Phe Asp Arg Val Gly Lys Arg Leu Val Val Asn Glu His
 50 55 60
 Gly Arg Leu Leu Tyr Pro Arg Ala Leu Ala Leu Glu Gln Ala Thr
 65 70 75 80
 Glu Ile Glu Gln Leu Phe Arg Glu Asp Asn Gly Ala Ile Arg Val Tyr
 85 90 95
 Ala Ser Ser Thr Ile Gly Asn Tyr Ile Leu Pro Glu Val Ile Ala Arg
 100 105 110
 Tyr Arg Arg Asp Phe Pro Thr Leu Pro Leu Glu Met Ser Val Gly Asn
 115 120 125
 Ser Gln Asp Val Ile Asn Ala Val Ile Asp Phe Arg Val Asp Ile Gly
 130 135 140
 Leu Ile Glu Gly Pro Cys His Asn Val Asp Ile Ile Ala Glu Pro Trp
 145 150 155 160
 Leu Glu Asp Glu Leu Val Val Phe Ala Ser Pro Ala Ser Ser Leu Leu
 165 170 175
 Gln Gly Glu Val Thr Leu Glu Arg Leu Ala Gln Ala Gln Trp Ile Leu
 180 185 190
 Arg Glu Gln Gly Ser Gly Thr Arg Glu Ile Val Asp Tyr Leu Leu Leu
 195 200 205
 Ser His Leu Pro Gln Phe Gln Leu Gly Met Glu Leu Gly Asn Ser Glu
 210 215 220
 Ala Ile Lys His Ala Val Arg His Gly Leu Gly Ile Ser Cys Leu Ser
 225 230 235
 Arg Arg Val Ile Ala Glu Gln Leu Glu Thr Gly Ser Leu Val Glu Ile
 245 250 255
 Pro Val Pro Leu Pro Lys Leu Val Arg Thr Leu Trp Cys Ile His His
 260 265 270
 Arg Gln Lys His Leu Ser Ser Ser Leu Gln Arg Phe Leu Arg Tyr Cys

275
Glu Met
290

280

285

<210> 6333
<211> 519
<212> PRT
<213> *Enterobacter cloacae*

<400> 6333

Ser Ser Leu Ile Thr Glu Tyr Phe Cys Arg Lys Gln Arg Arg Ser Ser
1 5 10 15
Ala Thr Ile Ala Pro His Leu Leu Asn Gly Gln His Phe His Met Val
20 25 30
Ser Glu Thr Lys Thr Thr Gln Ala Pro Ala Leu Arg Arg Ala Leu Lys
35 40 45
Ala Arg His Leu Thr Met Ile Ala Ile Gly Gly Ser Ile Gly Thr Gly
50 55 60
Leu Phe Val Ala Ser Gly Ala Thr Ile Ser Ala Ala Gly Pro Gly Gly
65 70 75 80
Ala Leu Phe Ser Tyr Ile Leu Ile Gly Leu Met Val Tyr Phe Leu Met
85 90 95
Thr Ser Leu Gly Glu Leu Ala Ala Tyr Met Pro Val Ser Gly Ser Phe
100 105 110
Ser Thr Tyr Gly Gln Lys Tyr Val Glu Glu Phe Gly Phe Ala Leu
115 120 125
Gly Trp Asn Tyr Trp Tyr Asn Trp Ala Val Thr Ile Ala Val Asp Leu
130 135 140
Val Ala Ala Gln Leu Val Met Thr Trp Trp Phe Pro Asp Thr Pro Gly
145 150 155 160
Trp Ile Trp Ser Ala Leu Phe Leu Ala Val Ile Phe Leu Leu Asn Tyr
165 170 175
Ile Ser Val Arg Gly Phe Gly Glu Ala Glu Tyr Trp Phe Ser Leu Ile
180 185 190
Lys Val Ala Thr Val Ile Ile Phe Ile Val Val Gly Val Ala Met Ile
195 200 205
Val Gly Ile Phe Lys Gly Ala Glu Pro Ala Gly Trp Ser Asn Trp Thr
210 215 220
Ile Gly Asp Ala Pro Phe Ala Gly Gly Phe Ser Ala Met Ile Gly Val
225 230 235 240
Ala Met Ile Val Gly Phe Ser Phe Gln Gly Thr Glu Leu Ile Gly Ile
245 250 255
Ala Ala Gly Glu Ser Glu Asn Pro Glu Lys Asn Ile Pro Arg Ala Val
260 265 270
Arg Gln Val Phe Trp Arg Ile Leu Leu Phe Tyr Val Phe Ala Ile Leu
275 280 285
Ile Ile Ser Leu Ile Ile Pro Tyr Thr Asp Pro Ser Leu Leu Arg Asn
290 295 300
Asp Val Lys Asp Ile Ser Val Ser Pro Phe Thr Leu Val Phe Gln His
305 310 315 320
Ala Gly Leu Leu Ser Ala Ala Ala Val Met Asn Ala Val Ile Leu Thr
325 330 335
Ala Val Leu Ser Ala Gly Asn Ser Gly Met Tyr Ala Ser Thr Arg Met
340 345 350
Leu Tyr Thr Leu Ala Cys Asp Gly Lys Ala Pro Arg Ile Phe Ser Lys
355 360 365
Leu Ser Arg Gly Gly Val Pro Arg Asn Ala Leu Tyr Ala Thr Thr Val
370 375 380
Ile Ala Gly Leu Cys Phe Leu Thr Ser Met Phe Gly Asn Gln Thr Val
385 390 395 400
Tyr Leu Trp Leu Leu Asn Thr Ser Gly Met Thr Gly Phe Ile Ala Trp

405 410 415
 Leu Gly Ile Ala Ile Ser His Tyr Arg Phe Arg Arg Gly Tyr Val Lys
 420 425 430
 Gln Gly His Asp Leu Asn Asn Leu Pro Tyr Arg Ser Gly Phe Phe Pro
 435 440 445
 Leu Gly Pro Ile Phe Ala Phe Val Leu Cys Leu Ile Ile Thr Leu Gly
 450 455 460
 Gln Asn Tyr Glu Ala Phe Leu Ala Asp Thr Ile Asp Trp Gly Ala Val
 465 470 475 480
 Thr Ala Thr Tyr Ile Gly Ile Pro Leu Phe Leu Ile Ile Trp Phe Gly
 485 490 495
 Tyr Lys Leu Thr Lys Gly Thr Arg Phe Val Arg Tyr Ser Glu Met Asp
 500 505 510
 Phe Pro Glu Arg Phe Lys
 515

<210> 6334

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6334

Arg Thr Gly Lys Met Ser Ser Leu Asp Ser Glu Ala Lys Pro Asp Asn
 1 5 10 15
 Ala Gly His Ser Val Leu Ala Leu Thr Thr Ser His Ser Leu Val Val
 20 25 30
 Ser Ser Ser Glu Thr Phe Leu Pro Asp Met Arg Lys Glu Leu Gly Ile
 35 40 45
 Ile Ala Asp Leu Val Glu Ser Tyr Asn Asp Glu Leu Cys Leu Leu Lys
 50 55 60
 His Met Ala Val Gln Phe Lys Thr His Asn His Gln Lys Leu Tyr Ser
 65 70 75 80
 Tyr Leu Ser Gly Tyr Asn His Ser Ile Ser Glu Ala Asp Ala Leu Phe
 85 90 95
 Ala Glu Asn Ala Leu Arg Ser Glu Tyr Trp Lys Arg Val Met Ala Leu
 100 105 110
 Thr Asp Val Leu Pro Ile Met Ser Asp Ala Lys Arg Asn Glu Trp Asp
 115 120 125
 Lys Gln Phe Thr Ala Asp Arg Tyr Ile Met Pro Pro Gln Val Ile Pro
 130 135 140
 Asp Phe Thr Ala Asp Ala Val Val Gly Thr Val Val Ala Leu Leu Asn
 145 150 155 160
 Asp Arg Asn Gln Phe Ile Lys Glu Arg Val Tyr Asp Val Phe Gln Ser
 165 170 175
 Leu Ser Arg Ser His Lys Thr Asn Lys Ala Phe Gly Val Leu His Pro
 180 185 190
 His Asp His Tyr Arg Ser Leu Arg Ala Val
 195 200

<210> 6335

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 6335

Ala Ala Val Ile Arg Gln Thr Lys Leu Leu Gly Phe Ser Thr Arg Met
 1 5 10 15
 Ile Thr Thr Gly Val Cys Glu Pro Ser Lys Tyr Pro Trp Gln Lys Leu
 20 25 30
 Arg Val Asp Phe Lys Glu Ser Gly Ile Ser Pro Leu Ser Glu Leu Arg
 35 40 45

Val Ile Cys Ala Phe Phe Arg Gly Glu Gln Val Lys Ala Ile His Asn
 50 55 60
 Thr Lys Ser Leu Val Glu Ala Leu Val Glu His Glu Gly Phe Arg Lys
 65 70 75 80
 Trp Ile Cys Ile Asp Gly Asn Ser Ile Arg Phe Arg Val Tyr Lys Asn
 85 90 95
 Gly Ser Met His Ile Asp Val His Pro Asp Ile Ala Glu Arg Leu Asn
 100 105 110
 Asn Ile Leu Ser Ala Ile Val Pro Leu Ala Leu Pro Ala Asp Arg Met
 115 120 125
 Ala His Ser Lys Lys Ser Leu Glu Ala Phe Pro Val Leu Lys Gln Cys
 130 135 140
 Ile Asp Phe Asp Thr Arg Met Gln Leu Ser Glu Leu Met Phe Lys Asn
 145 150 155 160
 Asp Gly Asp Asn Lys Trp Ser Cys Trp Thr Ser Leu Gly Ser Leu Ala
 165 170 175
 Glu Arg Lys Ser Ser Ser Val Ala Ala Asp Thr Leu Arg Phe Leu Gly
 180 185 190
 Ala Thr Val Thr Lys Tyr Asp Val Thr Phe Ser Tyr Asp Pro Cys Glu
 195 200 205
 Val Ile Arg Tyr Ile Gly Gln Ile Gly Glu Met Pro Asp Ile Val Ser
 210 215 220
 His Gln Phe Tyr Pro Ser Ser Cys Arg Ile Ser Glu Tyr Val Tyr Ser
 225 230 235 240
 Leu Leu Gly Ala Gly Glu Gly Asp Thr Leu Leu Glu Pro Asn Ile Gly
 245 250 255
 His Ala Asp Leu Leu Lys Ser Phe Pro Ala Gly Val Ile Val Thr Gly
 260 265 270
 Ile Glu Leu Asp Thr Leu Asn Cys Leu Ile Ser Arg Ala Lys Gly Tyr
 275 280 285
 Asp Thr Thr Glu Ala Asp Phe Leu Thr Trp Ser Lys Ser Asn Gln Gln
 290 295 300
 Lys Lys Phe Asp Tyr Val Val Met Asn Pro Pro Phe Ala Asp Asn Arg
 305 310 315 320
 Ala Arg Leu His Leu Gln Ala Ala Ala Ser His Leu Ala Ala Gly Gly
 325 330 335
 Ser Leu Ala Ala Val Leu Pro Leu Ser Leu Gln Gly Leu Asp Asn Leu
 340 345 350
 Leu Gly Glu Glu Phe Arg Thr Glu Trp Met Asp Val Phe Glu Asn Glu
 355 360 365
 Phe Glu Asn Thr Thr Val Ser Val Arg Ile Leu Tyr Ala Glu Arg Ile
 370 375 380
 Gln Gln Glu Glu Val Leu
 385 390

<210> 6336

<211> 396

<212> PRT

<213> Enterobacter cloacae

<400> 6336

Ala Glu Lys Cys Asn Gly Ala Pro Met Ser Val Leu Leu Thr Glu Pro
 1 5 10 15
 Thr Gln Gln Ala Asn Asp Lys Val Phe Lys Thr Ala His Val Ala Phe
 20 25 30
 Ser Val Val Thr Gly Thr Gly Arg Tyr Val Thr Gly Leu Lys Gln Phe
 35 40 45
 Arg Asp Ala Asn Pro Glu Leu Cys Thr Glu Val Ser Asp Gln Lys Ala
 50 55 60
 Trp Ala Ile His Pro Ser Val Ile Gln Val Thr Pro Gly Phe Asn Ser
 65 70 75 80

Arg Glu Met Gly Met Gly Asp Asp Tyr Tyr Lys Leu Pro Glu Val Glu
 85
 Glu His Ile Tyr Asn Ile Lys Asn Ala Tyr Ile Arg Gly Asp Tyr Val
 100
 Asp Pro Ile Arg Val Arg Val Ile Asp Gly Val Pro Phe Val Arg Gln
 115
 Gly His Cys Arg Leu Lys Ala Ala Met Met Ala Cys Asp Glu Asp His
 130
 Asp Ile Thr Ile Leu Cys Val Glu Ile Lys Glu Asp Glu Ile Gly Cys
 145
 Glu Leu Ala Thr Ile Asp Gly Asn Arg Gly Leu Ala Leu Ser Pro Val
 165
 Ala Leu Gly Glu Ser Tyr Arg Arg Leu His Ser Leu Ala Gly Trp Ser
 180
 Leu Glu Arg Ile Ala Gln Arg Glu Asn Lys Ser Pro Thr Thr Ile Ser
 195
 Ser Leu Ile Arg Leu Thr Thr Cys Ser Val Val Ile Lys Lys Trp Ile
 210
 His Ala Asp Ala Ile Ser Tyr Val Asn Val Leu Ser Leu Ile Asp Glu
 225
 Leu Gly Glu Thr Glu Ala Ile Ser Arg Ile Lys Lys Met Ile Ala Glu
 245
 Leu Glu Gln Ala Asp Ala Asn Gly Ile Thr Val Lys Lys Thr Gln His
 260
 Gly Gln Val Arg Val Arg Pro Ser Asp Phe Lys Pro Ala Arg Ile Pro
 275
 Pro Val Ile Ala Thr Lys Ala Val Glu Gly Val Lys Leu Ile Thr Thr
 290
 Ser Leu Leu Gln Lys Leu Gly Asp Ile Glu Leu Pro Glu Met Thr Asp
 305
 Ser Ser Ala Asp Glu Glu Ile Asn Ile Thr Leu Asn Arg Ser Thr Leu
 325
 Glu Met Leu Arg Asn Leu Ser Lys Glu Ile Thr Glu Ser Glu Asn Lys
 340
 Gln Leu Arg Arg Ala Glu Asn Arg Gln Ala Lys Leu Asn Gly Glu Lys
 355
 Pro Lys Tyr Pro Arg Lys Lys Asn Ala Lys Lys Ala Gly Glu Glu Thr
 370
 Asp Gln Asp Thr Asp Pro Gln Pro Asp Ala Glu
 385 390 395

<210> 6337

<211> 286

<212> PRT

<213> *Enterobacter cloacae*

<400> 6337

Ile Ser Leu Ser Gly Ile Asp Thr Leu Thr Arg His Leu Arg His Met
 1 5 10 15
 Pro Ile Ile Lys Trp Ala Gly Gly Lys Thr Lys Leu Met Pro Phe Ile
 20 25 30
 Ser His His Tyr Pro His Asp His Ser Cys Arg Trp Val Glu Pro Phe
 35 40 45
 Ile Gly Gly Gly Ala Val Phe Leu Asn Met Phe Ala Gln Asn Ala Leu
 50 55 60
 Leu Ala Asp Ser Asn Pro Asp Leu Ile Asn Leu Tyr Arg Thr Ile Gln
 65 70 75 80
 Arg Gln Lys Thr Asn Phe Ile Asn Gln Val Gln Asn Leu Ala Asp Lys
 85 90 95
 Thr Phe Val Glu Lys Asp Tyr Tyr Glu Met Arg Asp Arg Phe Asn Lys
 100 105 110

Thr Cys Ile Ser Gly Gln Pro Leu Gln Arg Ala Ala Leu Phe Tyr Ser
 115 120 125
 Leu Asn Arg Leu Gly Tyr Asn Gly Met Cys Arg Tyr Asn Ser Glu Arg
 130 135 140
 Ile Tyr Ser Val Pro Trp Gly Lys His Thr Glu Leu Lys Leu Asp Phe
 145 150 155 160
 Asn Lys Ile Asp Tyr Leu Ser Phe Arg Leu Ser Gly Ile Glu Leu Ile
 165 170 175
 Thr Ala Gly Phe Glu Glu Thr Leu Ala Ala Thr Gly Glu Gly Asp Gln
 180 185 190
 Ile Tyr Cys Asp Pro Pro Tyr Asp Lys Thr Ser Lys Thr Ser Phe Val
 195 200 205
 Ser Tyr Asp Gly Lys Pro Phe Ser Gln Ser Asp His Val Leu Leu Ala
 210 215 220
 Asn Met Leu Val Asp Ala His Arg Lys Gly Ala Ala Val Ala Ile Ser
 225 230 235 240
 Asn Ser Leu Thr Pro Phe Thr Leu Gly Leu Tyr Glu Glu Arg Gly Phe
 245 250 255
 Val Ile His Arg Leu Ser Ala Tyr Arg Ser Val Gly Ser Lys Pro Asn
 260 265 270
 Thr Arg Lys Thr Glu Thr Glu Ile Leu Ala Val Leu Lys
 275 280 285

<210> 6338

<211> 199

<212> PRT

<213> *Enterobacter cloacae*

<400> 6338

Asp Cys Ile Thr Val Asp Cys Lys Cys Asp Phe Gln Arg Ile Val Leu
 1 5 10 15
 Ile Met Leu Lys Thr Leu Asn Val Ile Thr Asn Asn Asn Phe Tyr Phe
 20 25 30
 Tyr Ser Leu Ile Gly Ile Phe Ser Ala Asn Asp Val Leu Ala Asn Met
 35 40 45
 Tyr His Ile Lys Lys Ile Gly Ser Arg Asp Ile Ala Ser Trp Leu Lys
 50 55 60
 Glu Thr Gln Asp Asp His Ala Ile Val Met Ala Gly Pro Asp Thr Glu
 65 70 75 80
 Ser Leu Thr Lys Leu Ile Cys Thr Gln Arg Gly Tyr Asn Tyr Ile Ser
 85 90 95
 Ser Arg Ser Lys Val Lys Asp Met Met Gln Phe Phe Leu Lys Glu Tyr
 100 105 110
 Lys Pro Arg Lys Asn Ser Ala Tyr Leu Lys Ala Thr Asn Ser His Ile
 115 120 125
 Ser Thr Gln Asp Ile Lys Val Leu Ile Trp Val Ser Ser Gly Leu Lys
 130 135 140
 Pro Cys Asp Ile Ser Lys Arg Tyr Gly Ile Ser Ile Lys Thr Ile Ser
 145 150 155 160
 His His Lys Arg Asn Leu Met Lys Lys Leu Gln Ile Lys Ser Thr Met
 165 170 175
 Gln Leu Val Asp Val Ala Ser Gln Tyr Ser Leu Leu Cys Lys His Leu
 180 185 190
 Asn Thr Ser Cys Ala Leu
 195

<210> 6339

<211> 2654

<212> PRT

<213> *Enterobacter cloacae*

<400> 6339

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Met Arg Met Asn Lys Val Tyr Lys Val Ile Trp Asn His Ser Ala Gln
1      5      10      15
Arg Trp Asp Val Val Ser Glu Leu Thr Gly Ala Lys Lys Ser Lys
20      25      30
Ser Ser Arg Val Gly Ala Ala Ile Ser Pro Leu Val Leu Leu Thr Ala
35      40      45
Leu Thr Leu Asn Pro Gly Phe Ala Tyr Ala Asp Ile Met Leu Pro Asn
50      55      60
Asn Trp Leu Ser Ser Asn Gln Asn Asn Gly Val Gly Ala Ala Val Val
65      70      75      80
Asn Gly Thr Glu Glu Asn Ile Ile Gly Pro Gly Val Ile Ser Gly Pro
85      90      95
Ser Ser Gly Thr Ser Tyr Met Ser Ile Thr Asp Ala Gln Lys Ala Gly
100      105      110
Tyr Ile Ile Ser Gly Asp Asp Leu Ser Gly Leu Val Tyr Thr Asp Ile
115      120      125
Gly Lys Arg Thr Arg Thr Val Gln Tyr Tyr Asp Ser Ile Thr Gly Ala
130      135      140
Asn Gln Thr Val Met Val Tyr Asp Ser Gly Thr Phe Ser Glu Ser Glu
145      150      155      160
Ala Ala Ser Asn Val Thr Val Pro Val Phe Ser Pro Gly Ala Asn Phe
165      170      175
Phe Tyr Lys Thr Arg Leu Val Thr Ala Lys Asn Gly Gly Thr Ala Asn
180      185      190
Ile Asp Val Lys Ala Ser Ser Ile Gly Ser Tyr Phe Lys Asp Ser Gln
195      200      205
Leu Val Val Ala Asp Gly Thr Asn Ser His Ala Asn Trp Asn Ser Gln
210      215      220
Asn Asn Phe Tyr Phe Gln Ala Ala Ala Arg Val Thr Asp Ser Ala Val
225      230      235      240
Tyr Asn Lys Thr Ile Asn Phe Ser Asn Tyr Thr Gly Ser Phe Thr Asp
245      250      255
Trp Glu Gly Lys Glu His Val Val Asn Ser Val Ala Asp Leu Gln Ser
260      265      270
Tyr Asn Asp Tyr Leu Ala Glu Ala Leu Lys Asp Gly Arg Leu Pro Pro
275      280      285
Gly Gln Tyr Thr Glu Ala Glu Phe Asn Lys Ala Ile Gln Tyr Glu Ser Lys
290      295      300
Asp Tyr Ile Ile Asp Lys Thr Ala Gly Gly Thr Ile Asp Ser Ser Pro
305      310      315      320
Tyr Asn Ser Pro Val Gly Thr Leu Ala Val Leu Ser Ala Thr Asn Gly
325      330      335
Gly Thr Val Thr Leu Ser Ser Ser Gly Arg Leu Thr Gly Val Leu Pro
340      345      350
Ala Tyr Gly Tyr Gly Ala Gly Val Val Ala Ser Ser Gly Gly Thr Gly
355      360      365
Ile Asn Glu Gly Val Ile Asp Ala Thr Gly Ala Ala Met Arg Ala Tyr
370      375      380
Gln Asp Gly Thr Val Ile Asn Asn Gly Thr Ile Tyr Val Trp Asp Asn
385      390      395      400
Asn Thr Lys Tyr Thr Leu His Gly Glu Gly Met Leu Ala His Asn Ala
405      410      415
Asn Ala Lys Ala Val Asn Asn Gly Val Ile Asn Val Arg Pro Trp Lys
420      425      430
Asn Ser Phe Thr Pro Tyr Gly Ile Asn Thr Ala Met Leu Leu Ser Asp
435      440      445
Gly Gly Glu Gly Thr Asn Asn Gly Val Ile Asn Ile Thr Ala Asp Ala
450      455      460
Ser Thr Leu Asp Asn Asn Gly Ala Thr Arg Gly Ile Ser Val Ser Asp
465      470      475      480

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Gly Gly Thr Phe Ile Asn Ala Gly Asn Gly Lys Ile Thr Val Gly Val
 485 490 495
 Asn Ala Gly Gly Thr Lys Ser His Ser Ala Val Asp Ser Ile Ala Ile
 500 505 510
 Asp Ile Gly Lys Gly Ala Thr Lys Val Val Asn Glu Gly Asp Ile Ile
 515 520 525
 Leu Gly Gln Gly Ala Gln Gly Asp Tyr Gly Val Ser Ala Val Asp Ala
 530 535 540
 Gly Thr Val Asn Phe Ile Asn Thr Gly Thr Ile Ser Val Glu Gly Gln
 545 550 555 560
 Asp Ser Ala Thr Pro Ala Leu Asn Ala Gly Ile Arg Ser Ser Asn Ser
 565 570 575
 Ser Gly Leu Val Asn Ser Gly Ile Ile Asn Val Asn Gly Thr Asn Asn
 580 585 590
 Ser Gly Ile Leu Ala Glu Asn Gly Gly Ser Val Leu Ser Asp Gly Leu
 595 600 605
 Ile Asn Val Gly Ser Val Ser Ala Gly Ser Gly Tyr Arg Asn Tyr Gly
 610 615 620
 Ala Trp Val Asp Gly Ala Ala Ser Ser Val Asp Val Ser Gly Gln Ile
 625 630 635 640
 Asn Leu Ile Gly Ser Gly Ala Ile Gly Ala Phe Ala Asp Asn Ala Gly
 645 650 655
 Ser Leu Ile Leu Ser Gly Thr Gly Ser Ile Ala Phe Asn Asp Ala Glu
 660 665 670
 Gln Ile Gly Phe Tyr Val Asn Gly Lys Gly Ser Ser Val Asn Asn Thr
 675 680 685
 Gly Ser Gly Thr Phe Asp Val Ser Ser Arg Asp Ser Ser Met Phe Arg
 690 695 700
 Ile Ala Gly Gly Ala Ser Phe Leu Gly Asn Ser Asp Ala Ser Ser Thr
 705 710 715 720
 Ile Thr Val Ser Gly Glu Asn Ser Leu Ala Leu Val Val Thr Gly Ser
 725 730 735
 Ser Asp Gln Gly Asp Val Ser Thr Ile Asn Thr Gly Gly Met Ala Ile
 740 745 750
 Gln Leu Ser Gly Asn Asp Ser Thr Gly Leu Arg Val Glu Gly Gly Ala
 755 760 765
 Leu Gly Thr Ile Asp Ala Asn Thr Thr Ile Asn Leu Asn Ala Val Ser
 770 775 780
 Ser Ile Ala Ala Val Ala Asp Gly Asn Gly Tyr Asp Ile Ser Gly Asn
 785 790 795 800
 Leu Ile Asn Lys Glu Asp Asn Ala Thr Ser Leu Thr Ala Ser Ala Gln
 805 810 815
 Leu Thr Ser Ser Leu Asp Ser Val Thr Gly Tyr Ile Ala Arg Asn Gly
 820 825 830
 Ala Ser Leu Asp Asn Ala Gly Asp Ile Phe Thr Gly Ser Lys Thr
 835 840 845
 Thr Gly Met Arg Val Glu Glu Gly Ala Thr Gly Thr Asn Ser Gly Asn
 850 855 860
 Ile Thr Val Glu Asp Gly Gly Ala Gly Leu Ile Ala Ala Ser Gly Gly
 865 870 875 880
 Lys Asn Thr Val Ile Asn Asn Thr Gly Asn Leu Ile Leu Lys Gly Gly
 885 890 895
 Asp Asn Ala Asn Arg Thr Thr Gly Ile Lys Ala Ser Gly Pro Gly Thr
 900 905 910
 Val Ile Asn Met Asn Ala Gly Asn Ile Glu Leu Gln Gly Gln Ala
 915 920 925
 Val Gly Val Glu Val Ser Asp Glu Gly Thr Val Asn Leu Ile Gly Ser
 930 935 940
 Ala Val Pro Gln Phe Ala Asp Glu Ser Thr Gly Ile Thr Asp Gln Ile
 945 950 955 960
 Ala Phe Arg Ile Lys Gly Ser Gly Ala Gln Ile Asn Thr Ser Ile Ala

965 970 975
 Pro Gly Thr Leu Leu Asp Ala Thr Gly Lys Asp Ser Ile Leu Phe Arg
 980 995 990
 Ile Glu Asp Gly Ala Gln Gln Ala Gly Thr Leu Gln Met Lys Thr Ser
 995 1000 1005
 Gly Thr Gly Ser Ser Gly Ile Trp Val Thr Gly Thr Gly Ser Lys Val
 1010 1015 1020
 Val Ala Gly Ser Gly Ser Asp Phe Gln Ile Leu Gly Asp Asn Ala Lys
 1025 1030 1035
 Gly Leu Tyr Val Thr Gly Gly Ala Glu Ala Thr Leu Glu Gln Gly Val
 1045 1050 1055
 Ser Val Asn Leu Val Gly Asp Gly Ala Ile Val Ala Glu Val Asp Gly
 1060 1065 1070
 Asn Ala Tyr Gly Leu Asp Gly Ser Val Thr Thr Gly Gln Asn Thr Gly Ser
 1075 1080 1085
 Val Leu Thr Asn Glu Ala Asp Ile Thr Thr Ala Leu Ser Asn Ala Thr
 1090 1095 1100
 Gly Phe Ile Thr Arg Asn Gln Gly Leu Leu Val Asn Asn Gly Asn Ile
 1105 1110 1115 1120
 Asp Phe Thr Ala Gly Thr Asp Asn Ile Gly Ile Leu Val Asp Asp Gly
 1125 1130 1135
 Arg Phe Glu Asn Ser Gly Asn Ser Ile Ala Val Asn Gly Val Ala Leu
 1140 1145 1150
 Tyr Ile Lys Gly Ala Asn Ser Gln Val Asn Asn Thr Thr Gly Gly Asp
 1155 1160 1165
 Ile Ile Ala Val Asp Gly Glu Ala Ala Ile Lys Leu Gly Ala Gly Ala
 1170 1175 1180
 Ser Leu Asp Leu Ala Gly Asp Gly Phe Asp Gly Ser Ala Thr Ile Glu
 1185 1190 1195 1200
 Gly Arg Gly Ser Ala His Gly Ile Leu Leu Asp Thr Gly Ala Thr Gly
 1205 1210 1215
 Leu Lys Leu Asn Gly Ala Val Ile Lys Val Ser Gly Leu Glu Thr Thr
 1220 1225 1230
 Gly His Gly Ile Glu Asn Arg Ala Glu Ile Glu Gly Ile Gln Leu Ser
 1235 1240 1245
 Asn Gly Ala Arg Ile Asn Val Ser Gly Gly Gly Ile Gly Ile Arg Thr
 1250 1255 1260
 Ala Ala Pro Leu Ala Lys Lys Asn Gln Gly Val Ile Thr Val Arg Gly
 1265 1270 1275 1280
 Ala Thr Gly Ile Ala Phe Gln Lys Ala Asp Gly Ser Ala Thr Asp Gly
 1285 1290 1295
 Leu Phe Asp Ile Ser Asp Ser Ser Glu Leu Tyr Phe Asp Val Glu Tyr
 1300 1305 1310
 Gly Thr Gly Ile Leu Val Asn Thr Thr Ala Asp Ala Val Val Lys Thr
 1315 1320 1325
 Asn Ala Asn Ile Trp Val Tyr Gly Glu Asp Gly Gly Ser Ala Ile Val
 1330 1335 1340
 Val Lys Asp Ser Ala Ser Glu Val Val Gln Ser Gly Glu Ile Phe Ser
 1345 1350 1355 1360
 Ala Ser Leu Ile Asn Asp Ala Ile Ile Ala Ser Arg Thr Ser Ser Phe
 1365 1370 1375
 Ile Asn Glu Gly Thr Ile Phe Ala Tyr Leu Gly Thr Ala Ile Ser Phe
 1380 1385 1390
 Ser Asp Asp Val Asp Ser Thr Leu Lys Asn His Gly Asn Ile Asp Gly
 1395 1400 1405
 Lys Val Lys Leu Asn Gly Gly Asn Asn Thr Leu Ile Asn Asn Gly Ser
 1410 1415 1420
 Val Gly Ala Leu Thr Ala Gly Asp Gly Asn Asn Thr Leu Asn Leu Asn
 1425 1430 1435 1440
 Asp Gly Ser Tyr Leu Gln Asp Ala Thr Leu Gly Asn Gly Asn Asn Thr
 1445 1450 1455

Ile Ile Phe Ser Gly Phe Ser Met Ala Gly Glu Ile Val Ala Gly Thr
 1460 1465 1470
 Gly Glu Asn Thr Phe Ile Ile Lys Asp Ser Asp Gly Leu Arg Phe Asp
 1475 1480 1485
 Leu Leu Asp Gly Gly Met Gly Asp Ser Asp Lys Leu Ile Phe Asp His
 1490 1495 1500
 Ala Gln Tyr Phe Thr Leu Asp Ser Ala Gly Lys Ile Lys Asn Ile Glu
 1505 1510 1515 1520
 Ser Val Arg Leu Asp Asn Asp Ser Asp Val Thr Ile Arg Glu Ala Leu
 1525 1530 1535
 Leu Leu Thr Asp Asn Gly Ala Gly Pro Gly Ser Val Asp Ile His Asp
 1540 1545 1550
 Asp Lys Ser Glu Leu Ser Val Arg Pro Ser Ala Pro Gly Gly Phe Thr
 1555 1560 1565
 Phe Asp Pro Arg Leu Thr Gly Glu Gly Leu Leu Ser Val Glu Leu Asp
 1570 1575 1580
 Ala Ala Glu Ser Glu Phe Ser Phe Ser Gln Asn Val Gly Asn Ala Phe
 1585 1590 1595 1600
 Ser Gly Thr Leu Ala Leu Gly Lys Ser Asn Phe Val Leu Asp Gly Ile
 1605 1610 1615
 Asn Thr Glu Ser Ile Thr Asn Ala Met Leu Ile Ser Glu Thr Asp Asn
 1620 1625 1630
 Thr Thr Ile Val Gly Asp Gly Thr Gln His Ile Gly Gly Leu Gly Ile
 1635 1640 1645
 Asp Gly Gly Lys Leu Ile Phe Gly Thr Val Thr Pro Gly Asp Thr Val
 1650 1655 1660
 Ala Ser Asn Ser Ile Val Thr Ser Glu Asp Gly Leu Leu Asp Ile Ser
 1665 1670 1675 1680
 Gly Lys Gly Thr Val Gln Val Thr Leu Pro Gly Glu Val Val Asn Val
 1685 1690 1695
 Arg Pro Val Pro Asp Thr Gln Lys Asn Ile Leu Glu Gln Asp Asp Ala
 1700 1705 1710
 Glu Thr Leu Val Thr Leu Val Glu Ala Arg Gly Ala Val Lys Gly Thr
 1715 1720 1725
 Gly Ala Glu Leu Leu Leu Thr Asp Glu Asn Gly Gly Val Ile Ser Asp
 1730 1735 1740
 Ser Gln Ser Phe Asp Ile Thr Gln Asp Gly Thr Pro Val Ala Arg Gly
 1745 1750 1755 1760
 Thr Tyr Asp Tyr Lys Leu Met Ser Ser Lys Asp Gly Ile Ser Gly Asp
 1765 1770 1775
 Gly Leu Tyr Ile Gly Tyr Gly Leu Lys Ser Ile Glu Leu Gln Gly Ile
 1780 1785 1790
 Ala Gly Asn Ala Leu Ile Leu Thr Pro Lys Asp Gly Ala Arg Gly Gln
 1795 1800 1805
 Glu Ser Asp Leu Asn Ala Gln Leu Thr Gly Thr Gly Asp Leu Ala Ile
 1810 1815 1820
 Asp Ala Gly Ser Asn Thr Val Thr Leu Ser Asn Gly Ser Asn Gly Tyr
 1825 1830 1835 1840
 Thr Gly Ser Thr Arg Val Leu Ser Gly Thr Leu Lys Met Ala Asn Asp
 1845 1850 1855
 Asn Val Leu Gly Gln Thr Ala Asp Leu Ala Ile Asn Asn Gly Ala Ala
 1860 1865 1870
 Phe Ile Thr Asp Gly Phe Ser Gln His Val Gly Ala Ile Gln Thr Glu
 1875 1880 1885
 Ala Gly Ala Gly Ile Gln Leu Asp Ala Gly Ser Glu Leu Thr Ile Asp
 1890 1895 1900
 Ser Thr Leu Arg Ala Ser Gly Glu Ala Ala Gly Gly Val Ile Glu Asp
 1905 1910 1915 1920
 Ser Ala Leu Tyr Gly Glu Gly Arg Leu Val Val Ser Asp Ser Ser Leu
 1925 1930 1935
 Glu Val Lys Gly Gln Asn Ser Lys Phe Thr Gly Asp Val Thr Leu Glu

1940					1945					1950					
Ser	Gly	Ser	Val	Ala	Glu	Leu	Glu	Asn	Ala	Gln	Gly	Leu	Gly	Ser	Leu
1955					1960					1965					
Gly	Thr	Val	Leu	Leu	Ser	Gly	Asn	Asp	Asp	Thr	Leu	Lys	Met	Asp	Ile
1970					1975					1980					
Val	Lys	Gly	Ser	Asn	Ser	Ser	Thr	Ser	Leu	Thr	Lys	Ser	Leu	Ala	Gly
1985					1990					1995					
Lys	Gly	Tnr	Val	Asp	Ile	Leu	Asn	Asn	Thr	Asp	Leu	Thr	Leu	Ser	Gly
2005					2010					2015					
Asp	Asn	Ser	Asn	Phe	Ser	Gly	Thr	Phe	Asp	Ile	Gly	Ser	Glu	Ala	Ala
2020					2025					2030					
Leu	His	Ala	Ser	Asp	Ala	Lys	His	Leu	Gly	Gln	Ser	Val	Leu	Gly	Asn
2035					2040					2045					
Glu	Gly	Ser	Leu	Tyr	Leu	Thr	Ala	Asn	Asn	Asp	Trp	Glu	Leu	Thr	Asn
2050					2055					2060					
Glu	Ile	Asn	Gly	Ala	Gly	Ser	Leu	Thr	Lys	Gln	Gly	Ser	Gly	Asn	Leu
2065					2070					2075					
Ile	Ile	Asn	Arg	Glu	Leu	Ser	Tyr	Thr	Gly	Ala	Thr	Arg	Val	Glu	Ser
2085					2090					2095					
Gly	Thr	Met	Val	Ile	Gly	Asp	Asn	Ser	Lys	Asp	Ala	Ala	Gly	Val	Leu
2100					2105					2110					
Ser	Gly	Thr	Ser	Val	Val	Thr	Val	Asn	Ala	Gly	Ala	Met	Leu	Ala	Gly
2115					2120					2125					
Thr	Gly	Thr	Ile	Ala	Gly	Asn	Val	Glu	Asn	Lys	Gly	Thr	Ile	Ala	Ala
2130					2135					2140					
Leu	Asn	Ser	Leu	Ser	Gly	Tyr	Ser	Asp	Ala	Gly	Thr	Gly	Asn	Phe	Thr
2145					2150					2155					
Val	Gly	Ala	Leu	Asn	Asn	Thr	Gly	Thr	Leu	Leu	Leu	Ala	Gly	Ser	Glu
2165					2170					2175					
Thr	Gly	Asn	Thr	Leu	Thr	Val	Asn	Gly	Asp	Tyr	His	Gly	Glu	Gly	Lys
2180					2185					2190					
Leu	Val	Leu	Asn	Thr	Val	Leu	Gly	Gly	Asp	Ser	Leu	Thr	Asp	Lys	
2195					2200					2205					
Leu	Ile	Val	Lys	Gly	Asn	Ala	Ser	Gly	Lys	Thr	Asp	Val	Tyr	Val	Thr
2210					2215					2220					
Asn	Val	Gly	Gly	Ser	Gly	Ala	Gln	Thr	Gln	Asn	Gly	Ile	Glu	Val	Val
2225					2230					2235					
Gln	Val	Asp	Gly	Gln	Ser	Ala	Asp	Asp	Ser	Phe	Arg	Leu	Ala	Lys	Arg
2245					2250					2255					
Ala	Val	Gly	Gly	Ala	Tyr	Glu	Tyr	Leu	His	Lys	Gly	Asp	Ile	Asn	
2260					2265					2270					
Gly	Ala	Gly	Gly	Asp	Trp	Tyr	Leu	Arg	Ser	Glu	Leu	Ser	Pro	Ala	Pro
2275					2280					2285					
Glu	Pro	Asp	Thr	Thr	Pro	Gly	Pro	Asp	Thr	Thr	Pro	Glu	Pro	Glu	Pro
2290					2295					2300					
Asn	Pro	Thr	Pro	Glu	Pro	Ala	Pro	Ala	Pro	Thr	Pro	Ala	Pro	Glu	Pro
2305					2310					2315					
Asp	Gln	His	Gly	Asp	Lys	Val	Tyr	Arg	Pro	Glu	Ala	Gly	Ser	Tyr	Ile
2325					2330					2335					
Ala	Gly	Ile	Ala	Ala	Ser	Asn	Thr	Leu	Phe	Asn	Thr	Arg	Leu	His	Asp
2340					2345					2350					
Arg	Ala	Gly	Glu	Thr	Tyr	Tyr	Thr	Asp	Val	Leu	Thr	Gly	Glu	Gln	Ala
2355					2360					2365					
Val	Thr	Ser	Met	Trp	Met	Arg	His	Val	Gly	Gly	His	Asn	Val	Trp	Lys
2370					2375					2380					
Asp	Gly	Ser	Ser	Gln	Leu	Asn	Thr	Gln	Ser	Asn	Arg	Tyr	Val	Leu	Gln
2385					2390					2395					
Leu	Gly	Gly	Asp	Ile	Ala	Gln	Trp	Thr	Asp	Gly	Lys	Asp	Arg	Leu	His
2405					2410					2415					
Leu	Gly	Val	Met	Gly	Gly	Tyr	Gly	Asn	Glu	Lys	Ser	Ser	Thr	Thr	Ser
2420					2425					2430					

Ser Leu Ser His Tyr Lys Ser Arg Gly Thr Val Asn Gly Tyr Ser Leu
 2435 2440 2445
 Gly Met Tyr Ala Thr Trp Gln Gln Asn Glu Gly Glu Ser Gly Ala
 2450 2455 2460
 Tyr Val Asp Thr Trp Ala Gln Tyr Ser Trp Phe Asp Asn Thr Val Lys
 2465 2470 2475 2480
 Gly Glu Gln Leu Ala Gln Glu Thr Trp Lys Ser Ser Gly Ile Thr Ala
 2485 2490 2495
 Ser Ala Glu Ala Gly Tyr Thr Phe Asn Ala Gly Lys Phe Lys Gly Ser
 2500 2505 2510
 His Gly Ser Glu Tyr Asn Trp Tyr Ile Gln Pro Gln Ala Gln Ile Thr
 2515 2520 2525
 Trp Met Asn Val Arg Ser Glu Asp His Arg Glu His Asn Gly Thr Lys
 2530 2535 2540
 Ile Ser Ala Gln Gly Glu Gly Asn Val Gln Ser Arg Val Gly Leu Arg
 2545 2550 2555 2560
 Thr Tyr Leu Lys Gly Lys Ser His Leu Asp Ser Glu Lys Glu Arg Thr
 2565 2570 2575
 Phe Glu Pro Phe Ile Glu Ala Asn Trp Ile His Asn Thr Arg Ser Trp
 2580 2585 2590
 Gly Val Arg Met Asp Asp Ala Leu Val Thr Gln Asp Gly Ala Arg Asp
 2595 2600 2605
 Val Gly Glu Ile Lys Thr Gly Val Glu Gly Gln Ile Ser Lys Asn Leu
 2610 2615 2620
 Asn Val Trp Gly Asn Val Gly Val Gln Ile Gly Asp Lys Gly Tyr Asn
 2625 2630 2635 2640
 Asp Thr Gln Ala Met Leu Gly Ile Lys Tyr Ser Phe Lys
 2645 2650

<210> 6340

<211> 416

<212> PRT

<213> Enterobacter cloacae

<400> 6340

Arg Lys Pro Asp Arg Asp Arg Gly Glu Lys Ser Arg Arg His Arg Gly
 1 5 10 15
 Ala Asp Gly Gly Gly Thr Arg Met Ser Val Ile Ile Val Gly Gly Gly
 20 25 30
 Met Thr Gly Ala Thr Leu Ala Leu Ala Ile Ser Gln Leu Thr Lys Gly
 35 40 45
 Gln Leu Pro Val His Leu Val Glu Ala Val Ala Pro Gln Ala Ala Asp
 50 55 60
 His Pro Gly Phe Asp Ala Arg Ala Ile Ala Leu Ala Gln Gly Thr Cys
 65 70 75 80
 Gln Gln Leu Ala Arg Ile Gly Ile Trp Gln Ala Ile Ala Asp Cys Ala
 85 90 95
 Thr Ala Ile Gly Thr Val His Val Ser Asp Arg Gly His Ala Gly Phe
 100 105 110
 Val Thr Leu Asp Ala His Asp Tyr Leu Ile Glu Ala Leu Gly Gln Val
 115 120 125
 Val Glu Leu His Asp Val Gly Leu Arg Leu Phe Arg Leu Leu Gln Asp
 130 135 140
 Ala Pro Gly Val Thr Leu His Cys Pro Ala Arg Val Ala Ser Phe Ser
 145 150 155 160
 Arg Arg Asp Glu Ala Val Ser Val Thr Leu Asp Asn Gly Thr Thr Leu
 165 170 175
 Glu Gly Gln Leu Leu Val Ala Ala Asp Gly Ser Arg Ser Ala Ile Ala
 180 185 190
 Thr Gln Cys Gly Val Glu Trp Arg Ser Glu Pro Tyr Gly Gln Ala Ala
 195 200 205

Val Ile Ala Asn Val Ser Thr Ala Gly Ala His Asn Gly Arg Ala Phe
 210 215 220
 Glu Arg Phe Thr Glu His Gly Pro Leu Ala Met Leu Pro Met Ser Asn
 225 230 235 240
 Gly Arg Cys Ser Leu Val Trp Cys His Ala Gln Asp Arg Ala Asp Glu
 245 250 255
 Val Leu Ser Trp Ser Asp Glu Arg Phe Cys Ser Glu Leu Gln Lys Ala
 260 265 270
 Phe Gly Trp Arg Leu Gly Arg Ile Thr His Ala Gly Lys Arg Val Ala
 275 280 285
 Tyr Pro Leu Ala Leu Thr Thr Ala Ser Gln Thr Val Ser His Arg Val
 290 295 300
 Ala Leu Val Gly Asn Ala Ala Gln Thr Leu His Pro Ile Ala Gly Gln
 305 310 315 320
 Gly Phe Asn Leu Gly Leu Arg Asp Val Met Ser Leu Ala Glu Leu Leu
 325 330 335
 Ala Arg Thr Trp Ser Glu Gln Gln Asp Cys Gly Ala Tyr Ser Val Leu
 340 345 350
 Ser His Tyr Gln Lys Arg Arg Gln Ala Asp Lys Ala Ala Thr Ile Gly
 355 360 365
 Val Thr Asp Gly Leu Val His Leu Phe Ala Asn Arg Trp Ala Pro Leu
 370 375 380
 Val Ala Gly Arg Asn Leu Gly Leu Met Ala Met Glu Leu Phe Ile Pro
 385 390 395 400
 Ala Arg Asp Val Leu Ala Gln Arg Thr Leu Gly Trp Val Ala Arg
 405 410 415

<210> 6341

<211> 405

<212> PRT

<213> *Enterobacter cloacae*

<400> 6341

Gly Val Leu Thr Val Gln Asn Val Asp Val Ala Ile Val Gly Gly Gly
 1 5 10 15
 Met Val Gly Leu Ala Leu Ala Cys Gly Leu Gln Gly Ser Gly Leu Arg
 20 25 30
 Val Ala Val Leu Glu Gln Lys Ala Pro Gln Pro Val Ala Gln Asp Ala
 35 40 45
 Pro Pro Glu Leu Arg Val Ser Ala Ile Asn Ala Ala Ser Glu Lys Leu
 50 55 60
 Leu Thr His Leu Gly Val Trp Ser Glu Ile Val Ala Leu Arg Ala Ser
 65 70 75 80
 Cys Tyr His Gly Met Glu Val Trp Asp Lys Asp Ser Phe Gly Arg Ile
 85 90 95
 Ala Phe Asp Asp Glu Ser Met Gly Tyr Ser His Leu Gly His Ile Val
 100 105 110
 Glu Asn Ala Val Ile His His Val Leu Trp Gln Lys Ala Gln Gln Cys
 115 120 125
 Ser Asp Val Thr Leu Ile Ala Pro Ala Lys Leu Gln Gln Val Ala Trp
 130 135 140
 Gly Glu Asn Asp Ala Phe Ile Thr Leu Glu Ser Gly Asp Met Leu Thr
 145 150 155 160
 Ala Arg Leu Val Val Gly Ala Asp Gly Ala Asn Ser Trp Leu Arg Asn
 165 170 175
 Lys Ala Asp Ile Pro Leu Thr Phe Trp Asp Tyr Arg His His Ala Leu
 180 185 190
 Val Ala Thr Ile Arg Thr Glu Glu Pro His Gly Gly Val Ala Arg Gln
 195 200 205
 Ile Phe His Asn Asp Gly Ile Leu Ala Phe Leu Pro Leu Ala Asp Pro
 210 215 220

His Leu Cys Ser Ile Val Trp Ser Leu Glu Pro Glu Lys Ala Gln Gln
 225 230 235 240
 Met Gln Glu Thr Thr Pro Asp Ala Phe Ser Gln Ala Leu Cys Val Ala
 245 250 255
 Phe Asp Asn Arg Leu Gly Leu Cys Gly Leu Glu Ser Glu Arg Gln Thr
 260 265 270
 Phe Pro Leu Thr Gly Arg Tyr Ala Arg Gln Phe Ala Ala His Arg Leu
 275 280 285
 Ala Leu Val Gly Asp Ala Ala His Thr Ile His Pro Leu Ala Gly Gln
 290 295 300
 Gly Val Asn Leu Gly Phe Met Asp Ala Ala Glu Leu Val Glu Glu Leu
 305 310 315 320
 Arg Arg Leu His Arg Glu Gly Lys Asp Ile Gly Gln His Leu Tyr Leu
 325 330 335
 Arg Arg Tyr Glu Arg Ser Arg Lys His Ser Ala Ala Met Met Leu Ala
 340 345 350
 Gly Met Gln Gly Phe Arg Glu Leu Phe Ala Gly Ala Asn Pro Ala Lys
 355 360 365
 Lys Leu Leu Arg Asp Ile Gly Leu Lys Leu Ala Asp Thr Leu Pro Gly
 370 375 380
 Val Lys Pro Gln Leu Leu Arg Gln Ala Met Gly Leu Asn Asp Leu Pro
 385 390 395 400
 Asp Trp Leu Arg
 405

<210> 6342

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 6342

Ala Gly Arg Leu Thr Ile Phe Ile Arg Arg Thr Ser Met Ser Asn Val
 1 5 10 15
 Pro Ala Glu Leu Lys Tyr Ser Lys Glu His Glu Trp Leu Arg Lys Glu
 20 25 30
 Ala Asp Gly Thr Tyr Thr Val Gly Ile Thr Glu His Ala Gln Glu Leu
 35 40 45
 Leu Gly Asp Met Val Phe Val Asp Leu Pro Glu Val Gly Ala Thr Val
 50 55 60
 Ser Ala Gly Asp Asp Cys Ala Val Ala Glu Ser Val Lys Ala Ala Ser
 65 70 75 80
 Asp Ile Tyr Ala Pro Val Ser Gly Glu Ile Val Ala Val Asn Asp Ala
 85 90 95
 Leu Ser Asp Ser Pro Glu Leu Val Asn Ser Glu Pro Tyr Glu Gly Gly
 100 105 110
 Trp Ile Phe Lys Ile Lys Ala Ser Asp Glu Ala Gln Val Ala Ala Leu
 115 120 125
 Leu Asp Ala Thr Ala Tyr Glu Ala Leu Leu Glu Asp Glu
 130 135 140

<210> 6343

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 6343

Arg Pro Thr Leu Phe Ser Ala Ala Gly Glu His Trp Tyr Phe Thr Gly
 1 5 10 15
 Phe Asn Glu Pro Glu Ala Val Leu Val Leu Ile Lys Ser Asn Asp Thr
 20 25 30
 His Asn His Ser Val Ile Phe Asn Arg Val Arg Asp Leu Thr Ala Glu

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      35              40              45
Ile Trp Phe Gly Arg Arg Leu Gly Gln Glu Ala Ala Pro Glu Lys Leu
50
Gly Val Asp Arg Ala Leu Ala Tyr Ser Glu Ile Asn Gln Gln Leu Tyr
65
Gln Leu Leu Asn Gly Leu Asp Val Leu Tyr His Ala Gln Gly Glu Tyr
85
Ala Tyr Ala Asp Asp Ile Val Phe Thr Ala Leu Asp Lys Leu Arg Lys
100
Gly Ser Arg Gln Asn Leu Ser Ala Pro Ala Thr Leu Thr Asp Trp Arg
115
Pro Met Val His Glu Met Arg Leu Phe Lys Ser Glu Glu Glu Leu Asn
130
Val Met Arg Arg Ala Gly Glu Ile Ser Ala Leu Ala His Thr Arg Ala
145
Met Glu Lys Cys Arg Pro Gly Met Phe Glu Tyr Gln Leu Glu Gly Glu
165
Ile His His Glu Phe Asn Arg His Gly Ala Arg Phe Pro Ser Tyr Asn
180
Thr Ile Val Gly Gly Gly Glu Asn Gly Cys Ile Leu His Tyr Thr Glu
195
Asn Glu Ser Glu Leu Arg Asp Gly Asp Leu Val Leu Ile Asp Ala Gly
210
Cys Glu Tyr Gln Gly Tyr Ala Gly Asp Ile Thr Arg Thr Phe Pro Val
225
Asn Gly Lys Phe Thr Thr Ala Gln Arg Glu Ile Tyr Asp Ile Val Leu
245
Glu Ser Leu Glu Thr Ala Leu Thr Leu Phe Arg Pro Gly Thr Ser Ile
260
Gln Glu Val Thr Gly Glu Val Val Arg Ile Met Ile Thr Gly Leu Val
275
Lys Leu Gly Ile Leu Lys Gly Asp Val Asp Thr Leu Ile Thr Glu Asn
290
Ala His Arg Pro Tyr Phe Met His Gly Leu Ser His Trp Leu Gly Leu
305
Asp Val His Asp Val Gly Ala Tyr Gly Pro Glu Arg Ser Arg Val Leu
325
Glu Pro Gly Met Val Leu Thr Val Glu Pro Gly Leu Tyr Ile Ala Pro
340
Asp Ala Asp Val Pro Glu Arg Tyr Arg Gly Ile Gly Ile Arg Ile Glu
355
Asp Asp Ile Val Ile Thr Glu Thr Gly Asn Glu Asn Leu Thr Ala Thr
370
Val Val Lys Lys Ala Asp Asp Ile Glu Ala Leu Met Ala Ala Arg
385
Val 390 395 400

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<210> 6344

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 6344

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Lys Arg Thr Phe Ala Ser Ala Pro Asp Arg Glu Ala Asp Thr Gly Phe
1 5 10 15
His Gly Glu Phe Phe Asn Glu Glu Lys Met Ala Gln Gln Thr Pro Leu
20 25 30
Tyr Glu Gln His Val Leu Cys Gly Ala Arg Met Val Asp Phe His Gly
35 40 45
Trp Met Met Pro Leu His Tyr Gly Ser Gln Ile Asp Glu His His Ala

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50 55 60
 Val Arg Thr Asp Ala Gly Met Phe Asp Val Ser His Met Thr Ile Val
 65 70 75 80
 Asp Leu Arg Gly Ser Arg Thr Arg Glu Phe Leu Arg Tyr Leu Leu Ala
 85 90 95
 Asn Asp Val Ala Lys Leu Lys Thr Pro Gly Lys Ala Leu Tyr Thr Gly
 100 105 110
 Met Leu Asn Ala Ser Gly Gly Val Ile Asp Asp Leu Ile Val Tyr Tyr
 115 120 125
 Phe Thr Glu Asp Phe Phe Arg Leu Val Val Asn Ser Ala Thr Arg Glu
 130 135 140
 Lys Asp Leu Ser Trp Ile Ser Gln His Ala Glu Pro Tyr Ala Ile Asp
 145 150 155 160
 Ile Thr Val Arg Asp Asp Leu Ser Leu Ile Ala Val Gln Gly Pro Asn
 165 170 175
 Ala Gln Ala Lys Ala Ala Ser Leu Phe Ser Asp Glu Gln Arg Lys Ala
 180 185 190
 Thr Glu Gly Met Lys Pro Phe Phe Gly Val Gln Ala Gly Asp Leu Phe
 195 200 205
 Ile Ala Thr Thr Gly Tyr Thr Gly Glu Ala Gly Tyr Glu Ile Ala Met
 210 215 220
 Pro Asn Glu Lys Ala Ala Asp Phe Trp Arg Ala Leu Val Glu Ala Gly
 225 230 235 240
 Val Lys Pro Ala Gly Leu Gly Ala Arg Asp Thr Leu Arg Leu Glu Ala
 245 250 255
 Gly Met Asn Leu Tyr Gly Gln Glu Met Asp Glu Gly Val Ser Pro Leu
 260 265 270
 Ala Ala Asn Met Gly Trp Thr Ile Ala Trp Glu Pro Ala Asp Arg Asp
 275 280 285
 Phe Ile Gly Arg Glu Ala Leu Glu Met Gln Arg Glu Lys Gly Thr Glu
 290 295 300
 Gln Leu Val Gly Leu Val Met Lys Glu Lys Gly Val Leu Arg Gly Glu
 305 310 315 320
 Leu Pro Val Arg Phe Thr Asp Ala Asp Gly Asn His Arg Glu Gly Val
 325 330 335
 Ile Thr Ser Gly Thr Phe Ser Pro Thr Leu Gly Tyr Ser Ile Ala Leu
 340 345 350
 Ala Arg Val Pro Ala Gly Ile Gly Glu Thr Ala Val Val Gln Ile Arg
 355 360 365
 Asn Arg Glu Met Pro Val Asn Val Thr Lys Pro Ile Phe Val Arg Ala
 370 375 380
 Gly Lys Pro Val Ala
 385 390

<210> 6345

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6345

Arg Val Val Asn Met Ile Thr Ile Arg Asp Val Ala Arg Gln Ala Gly
 1 5 10 15
 Val Ser Val Ala Thr Val Ser Arg Val Leu Asn Asn Ser Ala Leu Val
 20 25 30
 Ser Pro Glu Thr Arg Glu Thr Val Met Lys Ala Val Thr Gln Leu Gly
 35 40 45
 Tyr Arg Pro Asn Ala Asn Ala Gln Ala Leu Ala Thr Gln Val Ser Asp
 50 55 60
 Thr Ile Gly Val Val Val Met Asp Val Ser Asp Ala Phe Phe Gly Ala
 65 70 75 80
 Leu Val Lys Ala Val Asp Val Val Ala Gln Gln His Gln Lys Tyr Val

85 90 95
 Leu Ile Gly Asn Ser Tyr His Glu Ala Glu Lys Glu Arg Tyr Ala Ile
 100 105 110
 Glu Val Leu Ile Arg Gln Arg Cys Asn Ala Leu Ile Val His Ser Lys
 115 120 125
 Ala Leu Ser Asp Glu Glu Leu Ala Gly Phe Met Glu Gln Ile Pro Gly
 130 135 140
 Met Val Leu Ile Asn Arg Ile Val Pro Gly Tyr Ala His Arg Cys Val
 145 150 155 160
 Gly Leu Asp Asn Ile Ser Gly Ala Met Met Ala Thr Arg Met Leu Ile
 165 170 175
 Ser Asn Gly His Gln Arg Ile Gly Tyr Leu Ala Ser Ser His Gly Ile
 180 185 190
 Glu Asp Asp Met Met Arg Arg Glu Gly Trp Gln Asn Ala Leu Lys Glu
 195 200 205
 Gln Gly Ile Ala Pro Leu Glu Ser Trp Val Gly Thr Gly Ser Pro Asp
 210 215 220
 Met Gln Gly Gly Glu Ala Ala Met Val Glu Leu Leu Gly Arg Asn Leu
 225 230 235 240
 Gln Leu Thr Ala Val Phe Ala Tyr Asn Asp Ser Met Ala Ala Gly Ala
 245 250 255
 Leu Thr Ala Leu Lys Asp Asn Gly Ile Ala Val Pro Gln His Leu Ser
 260 265 270
 Leu Ile Gly Phe Asp Asp Ile Pro Ile Ala Arg Tyr Thr Asp Pro Gln
 275 280 285
 Leu Thr Thr Val Arg Tyr Pro Ile Ala Ser Met Ala Lys Leu Ala Thr
 290 295 300
 Glu Leu Ala Leu Gln Gly Ala Ala Gly Leu Leu Asp Pro Asp Ala Thr
 305 310 315 320
 His Cys Phe Met Pro Thr Leu Val Arg Arg His Ser Val Ala Ile Arg
 325 330 335
 Gln Thr Val Ala Pro Ile Thr Asn
 340 345

<210> 6346

<211> 393

<212> PRT

<213> *Enterobacter cloacae*

<400> 6346

Ile Tyr Phe Ser Leu Thr Ile Gly Ala Ile Met Ala Leu Arg Ile Ala
 1 5 10 15
 Leu Ser Gly Phe Val Val Leu Val Val Ala Met Gly Ile Gly Arg Phe
 20 25 30
 Ala Phe Thr Pro Gln Val Pro Leu Met Ile Ala Ala Gly Gln Leu Thr
 35 40 45
 Leu Thr Ser Ala Gly Leu Val Ala Ala Met Asn Tyr Leu Gly Tyr Leu
 50 55 60
 Val Gly Ala Trp Asp Ala Met Arg Ala His Arg Phe Val Glu Thr Arg
 65 70 75 80
 Leu Trp Leu Gly Ile Thr Gly Ala Val Ala Leu Thr Leu Leu Ser Ala
 85 90 95
 Ala Ala Glu Asn Ala Val Val His Gly Leu Leu Arg Phe Val Ile Gly
 100 105 110
 Cys Met Ser Gly Trp Ser Met Val Leu Ile Ala Ala Trp Thr Asn Glu
 115 120 125
 Arg Leu Gly Gln Leu Gly Lys Pro Gly Leu Ser Ala Ala Val Phe Ala
 130 135 140
 Gly Pro Gly Ala Gly Ile Ala Leu Ser Gly Leu Leu Ala Val Tyr Ile
 145 150 155 160
 Gln Ala Lys Ser Leu Ser Ala Gly Ala Ala Trp Gln Ile Tyr Gly Val

165 170 175
 Leu Ala Leu Val Leu Ile Val Leu Val Ala Arg Tyr Leu Pro Arg Ala
 180 185 190
 Gly Gln Leu His Arg Pro Asp Thr Ala Pro Glu Pro Leu Leu Thr
 195 200 205
 Ala Asp Leu Arg Arg Leu Val Trp Ser Tyr Ser Leu Ala Gly Phe Gly
 210 215 220
 Tyr Ile Leu Pro Ala Thr Phe Leu Ser Gln Met Ala Ala Val Arg Phe
 225 230 235 240
 Pro Gly Ser Leu Phe Ala Gln Phe Val Trp Pro Ile Phe Gly Ala Ala
 245 250 255
 Ser Val Val Gly Ile Ala Leu Ser Ile Ala Leu Arg His Thr Ser Ser
 260 265 270
 Ala Asn Arg Arg Leu Ala Ile Val Leu Trp Leu Gln Gly Ile Gly Val
 275 280 285
 Leu Ala Ala Trp Leu Leu Pro Gly Ile Gly Gly Leu Leu Thr Gly Gly
 290 295 300
 Leu Leu Val Gly Gly Gly Phe Leu Cys Ala Val Gln Leu Ser Leu Leu
 305 310 315 320
 Tyr Gly Arg Glu Leu Ala Pro Asp His Thr Arg Tyr Met Ala Gly Leu
 325 330 335
 Leu Thr Thr Gly Tyr Ala Ile Gly Gln Leu Val Gly Pro Val Thr Ser
 340 345 350
 Ala Leu Ser Thr Trp Leu Thr His Arg Leu Glu Pro Ala Leu Gly Leu
 355 360 365
 Ala Gly Ile Ala Leu Phe Val Gly Gly Ala Leu Val Trp Asn Arg Gln
 370 375 380
 Ala Glu Arg Gln Gln Gln Leu Gln
 385 390

<210> 6347

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6347

Ile Leu Asp Tyr Val Arg Arg Leu Thr His Asn Glu Arg Thr Leu Leu
 1 5 10 15
 Pro Gln Arg Gly Gln Lys Thr Pro His Leu Gln Glu Lys Arg Met Ser
 20 25 30
 Ser Leu Ser Lys Glu Ala Ala Leu Val His Glu Ala Leu Val Ala Arg
 35 40 45
 Gly Leu Glu Thr Pro Leu Arg Pro Pro Val Gln Glu Leu Asp Asn Val
 50 55 60
 Thr Arg Lys Arg Leu Ile Ala Gly His Met Thr Glu Ile Met Gln Leu
 65 70 75 80
 Leu Asn Leu Asp Leu Ser Asp Asp Ser Leu Met Glu Thr Pro His Arg
 85 90 95
 Ile Ala Lys Met Tyr Val Asp Glu Ile Phe Ser Gly Leu Asp Tyr Ala
 100 105 110
 Asn Phe Pro Lys Ile Thr Val Ile Glu Asn Lys Met Lys Val Asp Glu
 115 120 125
 Met Val Thr Val Arg Asp Ile Thr Leu Thr Ser Thr Cys Glu His His
 130 135 140
 Phe Val Thr Ile Asp Gly Lys Ala Thr Val Ala Tyr Ile Pro Lys Asp
 145 150 155 160
 Thr Val Ile Gly Leu Ser Lys Ile Asn Arg Ile Val Gln Phe Phe Ala
 165 170 175
 Gln Arg Pro Gln Val Gln Glu Arg Leu Thr Gln Gln Ile Leu Thr Ala
 180 185 190
 Leu Gln Thr Leu Leu Gly Thr Asn Asn Val Ala Val Ser Ile Asp Ala

195 200 205
 Val His Tyr Cys Val Lys Ala Arg Gly Val Arg Asp Ala Thr Ser Ala
 210 215 220
 Thr Thr Thr Thr Ser Leu Gly Gly Leu Phe Lys Ser Ser Gln Asn Thr
 225 230 235 240
 Arg Gln Glu Phe Leu Arg Ala Val Arg His His Asn
 245 250

<210> 6348

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 6348

Ser Asp Arg Ala Gly Thr Met Glu Arg Asn Val Thr Leu Asp Phe Val
 1 5 10 15
 Arg Gly Val Ala Ile Leu Gly Ile Leu Leu Leu Asn Ile Ser Ala Phe
 20 25 30
 Gly Leu Pro Lys Ala Ala Tyr Leu Asn Pro Ala Trp Tyr Gly Asp Ile
 35 40 45
 Thr Arg Ser Asp Ala Trp Thr Trp Ala Ile Leu Asp Leu Phe Ala Gln
 50 55 60
 Val Lys Phe Leu Thr Leu Phe Ala Leu Leu Phe Gly Ala Gly Leu Gln
 65 70 75 80
 Leu Leu Leu Lys Arg Gly Thr Arg Trp Ile Gln Ser Arg Leu Thr Leu
 85 90 95
 Leu Val Ile Leu Gly Phe Ile His Gly Leu Leu Phe Trp Asp Gly Asp
 100 105 110
 Ile Leu Leu Ala Tyr Gly Leu Val Gly Leu Ile Cys Trp Arg Leu Ile
 115 120 125
 Arg Asp Ala Pro Gly Val Lys Ser Leu Phe Asn Thr Gly Val Met Leu
 130 135 140
 Tyr Val Met Gly Leu Ala Val Leu Leu Leu Gly Met Ile Ala Asp
 145 150 155 160
 Asp Ser Thr Ser Arg Ser Trp Ile Pro Asp Ala Ala Asn Leu Gln Tyr
 165 170 175
 Glu Gln Phe Trp Lys Leu Lys Gly Gly Met Glu Ala Ile Gly Asn Arg
 180 185 190
 Ala Asp Met Leu Gly Asp Asn Leu Leu Ala Leu Gly Ala Gln Tyr Gly
 195 200 205
 Trp Gln Leu Ala Gly Met Met Leu Met Gly Ala Ala Leu Met Arg Thr
 210 215 220
 Gly Trp Leu Lys Gly Glu Phe Ser Leu Arg His Tyr Arg Arg Thr Gly
 225 230 235 240
 Ala Gly Leu Val Leu Leu Gly Val Ile Ile Asn Leu Pro Ala Val Met
 245 250 255
 Met Gln Trp His Leu Gln Trp Asp Tyr Arg Trp Cys Ala Phe Leu Leu
 260 265 270
 Gln Val Pro Arg Glu Leu Ser Ala Pro Phe Gln Thr Ile Gly Tyr Ala
 275 280 285
 Ala Leu Ile Tyr Gly Phe Trp Pro Gln Leu Ser Arg Leu Trp Ile Val
 290 295 300
 Ser Ala Val Ala Cys Val Gly Arg Met Ala Leu Ser Asn Tyr Ile Leu
 305 310 315 320
 Gln Thr Leu Ile Cys Thr Thr Leu Phe Tyr Arg Phe Gly Leu Phe Met
 325 330 335
 Lys Phe Asp Arg Leu Thr Leu Leu Ala Phe Val Ile Pro Val Trp Ile
 340 345 350
 Val Asn Val Val Phe Ser Val Val Trp Leu Arg Phe Phe Arg Gln Gly
 355 360 365
 Pro Leu Glu Trp Ala Trp Arg Gln Leu Thr Ala Arg Ala Ser Gly Val

370 375
Ser Leu Arg Asn Thr Ser Arg
385 390

380

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<210> 6349
<211> 322
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 6350
<211> 293
<212> PRT
<213> Enterobacter cloacae
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<400> 6350
Lys Leu Cys Ile Met Arg Phe Met Asn Ser Leu Ser Tyr Lys Glu Pro
1 5 10 15

Cys Met Glu Leu Leu Glu Glu His Arg Cys Phe Glu Gly Arg Gln Gln
 20 25 30
 Arg Trp Arg His Asp Ser Thr Thr Leu Asn Cys Ala Met Thr Phe Ser
 35 40 45
 Ile Phe Leu Pro Pro Ala Asp Asn Pro Pro Val Leu Tyr Trp Leu Ser
 50 55 60
 Gly Leu Thr Cys Asn Asp Glu Asn Phe Thr Thr Lys Ala Gly Ala Gln
 65 70 75 80
 Arg Ile Ala Ala Glu Leu Gly Ile Ala Leu Val Met Pro Asp Thr Ser
 85 90 95
 Pro Arg Gly Glu Asp Val Ala Asp Asp Ala Gly Tyr Asp Leu Gly Lys
 100 105 110
 Gly Ala Gly Phe Tyr Leu Asn Ala Thr Glu Gln Pro Trp Ala Arg His
 115 120 125
 Tyr Arg Met Tyr Asp Tyr Ile Arg Asp Glu Leu Pro Ala Leu Val His
 130 135 140
 Ser Gln Phe Ala Val Ser Glu Arg Cys Ala Ile Ser Gly His Ser Met
 145 150 155 160
 Gly Gly His Gly Ala Leu Ile Met Ala Leu Lys Asn Pro Gly Lys Tyr
 165 170 175
 Thr Ser Val Ser Ala Phe Ala Pro Ile Val Asn Pro Thr Gln Val Pro
 180 185 190
 Trp Gly Gln Lys Ala Phe Arg His Tyr Leu Gly Glu Asp Leu Glu Lys
 195 200 205
 Trp Gln Glu Trp Asp Ser Cys Ala Leu Met Leu Ala Ser Gln Ser Glu
 210 215 220
 Asp Ala Ile Pro Met Leu Val Asp Gln Gly Asp Ala Asp Gln Phe Leu
 225 230 235 240
 Ala Gly Gln Leu Gln Pro Ala Val Leu Ala Glu Ala Ala Arg Gln Lys
 245 250 255
 Asp Trp Pro Leu Thr Leu Arg Ile Gln Pro Gly Tyr Asp His Ser Tyr
 260 265 270
 Tyr Phe Met Ala Ser Phe Ile Glu Asp His Leu Arg Phe His Ala Glu
 275 280 285
 His Leu Phe Arg
 290

<210> 6351

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 6351

Leu Val Val Val Thr His Gly Ala Gln Glu Leu Leu Ala Gly Val Leu
 1 5 10 15
 Ala Arg Phe Glu Gln Ala Ala Gln Arg Ser Gly Gly Cys Ala Gly
 20 25 30
 Ser Ile Thr His Ala Ala Arg Phe His Ala Val Val His Arg Val Asp
 35 40 45
 Arg His Arg His Ile Val Ser Pro Gln Gln Gly Leu Gln Cys Gly Gln
 50 55 60
 Asp Leu Leu Arg Gln Thr Phe Leu His Leu Arg Thr Leu Gly Lys Glu
 65 70 75 80
 Leu His Asp Ala Val Asp Leu Gly Gln Ala Asp Asp Arg Ile Phe Trp
 85 90 95
 Asn Ile Gly His Arg Arg Phe Thr Ile Asp Gly His Lys Val Met Leu
 100 105 110
 Ala Gly Ala Gly Gln Arg Asp Ile Ala Tyr Arg His His Leu Ile Asp
 115 120 125
 Leu His Leu Ile Phe Asn Asp Gly Asp Phe Arg Glu Val Arg Val Ile
 130 135 140

Gln Ala Gly Glu Asn Phe Val Asp Val His Leu Arg Asp Ala Val Arg
 145 150 155 160
 Arg Leu His Gln Ala Val Val Ala Gln Ile Glu Ile Gln Gln Leu His
 165 170 175
 Asp Leu Arg His Met Ala Gly Asp Gln Thr Leu Ala Gly Asn Ile Val
 180 185 190
 Gln Leu Leu His Gly Arg Ala Gln Trp Arg Phe Lys Thr Ala Arg Asn
 195 200 205
 Gln Arg Phe Met Asp Lys Gly Cys Phe Phe Thr Glu
 210 215 220

<210> 6352

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 6352

Ile Gln Pro Val Phe Arg Arg His His Ser Asn Thr Asn Asp Phe Asn
 1 5 10 15
 Tyr His Leu Cys Leu Gln Phe Tyr Ile Leu Leu Tyr Asn Ser Arg Leu
 20 25 30
 Phe Ser Ile Ser Lys Ser Ser Tyr Lys Thr Lys Thr Tyr Ser Ser Gln
 35 40 45
 Gly Tyr Pro Asp Gly Val Phe Phe Ile Phe Ile Arg Asn Val Gln Met
 50 55 60
 Thr Ile Pro Arg Ile Lys Leu Leu Ala Val Ala Ile Gly Ala Ala Thr
 65 70 75 80
 Cys Ser Pro Phe Val His Ala Ala Asp Gln Asp Thr Val Val Val Thr
 85 90 95
 Ala Thr Gly Phe Glu Gln Lys Ile Gln Asn Ala Pro Ala Ser Ile Ser
 100 105 110
 Val Ile Ser Lys Gln Gln Ile Glu Asp Lys Ala Tyr Arg Asp Val Thr
 115 120 125
 Asp Ala Leu Arg Asp Val Pro Gly Val Val Val Thr Gly Gly Ser
 130 135 140
 Ser Ser Asp Ile Ser Ile Arg Gly Met Ala Ser Gln Tyr Thr Leu Phe
 145 150 155 160
 Leu Val Asn Gly Lys Arg Val Ser Thr Arg Ser Thr Arg Pro Asn Ser
 165 170 175
 Asp Asn Ser Gly Ile Glu Gln Gly Trp Leu Pro Pro Leu Glu Ser Ile
 180 185 190
 Glu Arg Ile Glu Val Ile Arg Gly Pro Met Ser Ser Leu Tyr Gly Ser
 195 200 205
 Asp Ala Met Gly Gly Val Met Asp Val Ile Thr Gln Asn Ser
 210 215 220

<210> 6353

<211> 204

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (6)

<220>

<221> UNSURE

<222> (7)

<220>

<221> UNSURE

<222> (8)

<220>

<221> UNSURE

<222> (9)

<220>

<221> UNSURE

<222> (10)

<220>

<221> UNSURE

<222> (14)

<220>

<221> UNSURE

<222> (21)

<220>

<221> UNSURE

<222> (22)

<220>

<221> UNSURE

<222> (23)

<220>

<221> UNSURE

<222> (26)

<220>

<221> UNSURE

<222> (27)

<220>

<221> UNSURE

<222> (33)

<220>

<221> UNSURE

<222> (40)

<400> 6353

Arg	Gly	Gly	Glu	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Phe	Pro	Xaa	Pro	Gly
1				5					10					15	
Ala	Trp	Ala	Ser	Xaa	Xaa	Xaa	His	Pro	Xaa	Xaa	Pro	Asn	Ser	Phe	Pro
			20					25					30		
Xaa	Gly	Leu	Ser	Pro	Lys	Pro	Xaa	Ala	Arg	Pro	Leu	Thr	Ser	Gly	Cys
		35				40						45			
Asn	Pro	Arg	Thr	Asn	Ile	Ser	Val	Glu	Leu	Met	Pro	Gln	Ser	Arg	Ile
		50			55						60				
Lys	Leu	Asp	Ala	Asn	Leu	Lys	Asp	Phe	Glu	Ala	Gln	Leu	Ala	Ala	Thr
65				70					75					80	
Asp	Lys	Gln	Val	Gly	Asn	Glu	Leu	Ala	Pro	Leu	Lys	Gly	Lys	Gly	Tyr
			85						90				95		
Phe	Val	Phe	His	Asp	Ala	Tyr	Gly	Tyr	Tyr	Glu	Lys	His	Tyr	Gly	Leu
			100				105						110		
Thr	Pro	Leu	Gly	His	Phe	Thr	Val	Asn	Pro	Glu	Ile	Gln	Pro	Gly	Ala
		115					120					125			
Gln	Arg	Leu	His	Glu	Ile	Arg	Thr	Gln	Leu	Val	Glu	Gln	Lys	Ala	Thr
		130				135						140			

Cys Val Phe Ala Glu Pro Gln Phe Arg Pro Ala Val Val Glu Ala Val
 145 150 155 160
 Ala Arg Gly Thr Ser Val Arg Met Gly Thr Leu Asp Pro Leu Gly Thr
 165 170 175
 Asn Ile Gln Leu Ser Lys Ala Ser Tyr Ser Gln Phe Leu Ser Gln Leu
 180 185 190
 Ala Asn Gln Tyr Ala Ser Cys Leu Lys Gly Asp
 195 200

<210> 6354

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 6354

Arg Gly Ser Glu Tyr Val Gln Gln Ile Ala Arg Ser Val Ala Leu Ala
 1 5 10 15
 Phe Asn Asn Leu Pro Arg Pro His Arg Val Met Leu Gly Ser Leu Thr
 20 25 30
 Val Leu Thr Leu Ala Val Ala Val Trp Arg Pro Tyr Val Tyr His Pro
 35 40 45
 Ser Ser Ala Pro Ile Ile Lys Thr Ile Glu Leu Glu Lys Ser Glu Ile
 50 55 60
 Arg Ser Leu Leu Pro Glu Ala Ser Glu Pro Ile Asp Gln Ala Ala Gln
 65 70 75 80
 Glu Asp Glu Ala Ile Pro Gln Asp Glu Leu Asp Asp Lys Ile Gln Asn
 85 90 95
 Glu Ala Gly Ile His Glu Tyr Val Val Ser Thr Gly Asp Thr Leu Ser
 100 105 110
 Ser Val Leu Asn Gln Tyr Gly Ile Asp Met Gly Asn Ile Ser Gln Leu
 115 120 125
 Ala Ala Ser Asp Lys Glu Leu Arg Asn Leu Lys Ile Gly Gln Gln Leu
 130 135 140
 Ser Trp Thr Leu Thr Pro Asp Gly Asp Leu Gln Arg Leu Thr Trp Glu
 145 150 155 160
 Met Ser Arg Arg Glu Thr Arg Thr Tyr Asp Arg Thr Ala Asn Gly Phe
 165 170 175
 Lys Met Thr Ser Glu Leu Gln Gln Gly Asp Trp Val Asn Ser Val Met
 180 185 190
 Lys Gly Thr Val Gly Gly Ser Phe Val Ser Ser Ala Arg Asp Ala Gly
 195 200 205
 Leu Thr Ser Ala Glu Ile Ser Ser Val Ile Lys Ala Met Gln Trp Gln
 210 215 220
 Met Asp Phe Arg Lys Leu Lys Lys Gly Asp Gln Phe Ser Val Leu Met
 225 230 235 240
 Ser Arg Glu Met Leu Asp Gly Lys Arg Glu Gln Ser Gln Leu Val Gly
 245 250 255
 Val Arg Leu Arg Ser Asp Gly Lys Asp Tyr Tyr Ala Ile Arg Ala Glu
 260 265 270
 Asp Gly Lys Phe Tyr Asp Arg Ser Gly Thr Gly Leu Ala Lys Gly Phe
 275 280 285
 Leu Arg Phe Pro Thr Ala Lys Gln Phe Arg Val Ser Ser Asn Phe Asn
 290 295 300
 Pro Arg Arg Leu Asn Pro Val Thr Gly Arg Val Ala Pro His Arg Gly
 305 310 315 320
 Val Asp Phe Ala Met Pro Gln Gly Thr Pro Val Leu Ala Val Gly Asp
 325 330 335
 Gly Glu Val Val Met Ala Lys Arg Ser Gly Ala Ala Gly Tyr Tyr Val
 340 345 350
 Ala Ile Arg His Gly Arg Thr Tyr Thr Thr Arg Tyr Met His Leu Arg
 355 360 365

Lys Leu Leu Val Lys Pro Gly Gln Lys Val Lys Arg Gly Asp Arg Ile
 370 375 380
 Ala Leu Ser Gly Asn Thr Gly Arg Ser Thr Gly Pro His Leu His Tyr
 385 390 395 400
 Glu Val Trp Ile Asn Gln Gln Ala Val Asn Pro Leu Thr Ala Lys Leu
 405 410 415
 Pro Arg Thr Glu Gly Leu Thr Gly Lys Asp Arg Lys Asp Tyr Leu Ala
 420 425 430
 Gln Val Lys Glu Val Met Pro Gln Leu Arg Phe Asp 445
 435 440

<210> 6355

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6355

Lys Ala Gly Val Ser Met Arg Arg Leu Phe Leu Leu Cys Ala Gly Gly
 1 5 10 15
 Ser Leu Ala Thr Leu Ser Ala Tyr Ile Phe Ala Ser Pro Asp Pro Gly
 20 25 30
 Thr Arg Met Glu Thr Lys Lys Asn Ile Glu Tyr Ile His Glu Phe
 35 40 45
 Glu Lys Ser Phe Arg His Pro Arg Asn Trp Gly Ala Trp Ile Gly Val
 50 55 60
 Tyr Ala Phe Ala Gly Met Ala
 65 70

<210> 6356

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 6356

Leu Pro Ala Thr Leu Arg Asp Pro Val Leu Gly Lys Val Gly Arg Leu
 1 5 10 15
 Ala Gly Arg Leu Gly Lys Ser Ala Arg Arg Ala Gln Ile Asn Leu
 20 25 30
 Leu Tyr Cys Phe Pro Asp Lys Ser Asp Ala Glu Arg Glu Ala Ile Ile
 35 40 45
 Asp Asp Met Tyr Thr Thr Ala Pro Gln Ala Met Ala Met Met Ala Glu
 50 55 60
 Leu Ala Leu Lys Gly Pro Glu Lys Ile Val Glu Arg Val Asp Trp Lys
 65 70 75 80
 Gly Leu Glu Ile Ile Asp Glu Met Arg Arg Asn Asp Glu Lys Val Ile
 85 90 95
 Phe Leu Val Pro His Gly Trp Gly Val Asp Ile Pro Ala Met Leu Met
 100 105 110
 Ala Ser Gln Gly Gln Lys Met Ala Ala Met Phe His Asn Gln Gly Asn
 115 120 125
 Lys Ile Tyr Asp Phe Val Trp Asn Thr Val Arg Arg Arg Phe Gly Gly
 130 135 140
 Arg Leu His Ala Arg Asn Asp Gly Ile Lys Pro Phe Ile Gln Ser Val
 145 150 155 160
 Arg Gln Gly Tyr Trp Gly Tyr Tyr Leu Pro Asp Gln Asp His Gly Pro
 165 170 175
 Glu His Ser Glu Phe Val Asp Phe Phe Ala Thr Tyr Lys Ala Thr Leu
 180 185 190
 Pro Ala Ile Gly Arg Leu Met Lys Val Cys Arg Ala Arg Val Ile Pro
 195 200 205
 Leu Phe Pro Ala Tyr Asp Gly Lys Thr His Arg Leu Ser Ile Glu Val

210	215	220
Arg Pro Pro Met Asp	Asp Leu Leu Thr Ala Asp	Asp His Thr Ile Ala
225	230	235
Arg Arg Met Asn Glu Glu Val	Glu Val Leu Val Gly Pro His Lys Glu	
	245	250
Gln Tyr Thr Trp Ile Leu Lys	Leu Lys Thr Arg Lys	Pro His Lys Glu
	260	265
Thr Glu Pro Tyr Lys Arg Lys	Glu Leu Phe Pro Lys Lys	
	275	280
		285

<210> 6357

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 6357

Trp Phe Gln Glu Thr	Arg Lys Ser Ser Thr Val	His Cys Asn Lys Ile
1	5	10
Thr Thr Ile Pro Gly	Arg Val Pro Gly Asp Leu Thr	Glu Glu Asn Asp
	20	25
Met Ala Val Thr Gln Thr	Ala Gln Ala Cys Asp Leu Val	Ile Phe Gly
	35	40
Ala Lys Gly Asp Leu Ala	Arg Arg Lys Leu Leu Pro Ser	Leu Tyr Gln
	50	55
Leu Glu Lys Ala Gly Gln	Ile His Pro Asp Thr Arg	Ile Leu Gly Val
	65	70
Gly Arg Ala Asp Trp Asp	Lys Glu Ala Tyr Thr Lys	Val Val Arg Glu
	85	90
Ala Leu Glu Thr Phe Met	Lys Glu Lys Ile Asp Glu Ser	Leu Trp Asp
	100	105
Lys Leu Ser Gly Arg Leu	Asp Phe Cys Asn Leu Asp Val	Asn Asp Val
	115	120
Gly Ala Phe Thr Arg Leu	Gly Glu Met Leu Asp Gln	Glu Asn Arg Val
	130	135
Thr Ile Asn Tyr Phe Ala	Met Pro Pro Ser Thr Phe	Gly Ala Ile Cys
	145	150
Lys Gly Leu Gly Glu Ala	Lys Leu Asn Ala Lys Pro	Ala Arg Val Val
	165	170
Met Glu Lys Pro Leu Gly	Thr Ser Leu Ala Thr Ser	Arg Glu Ile Asn
	180	185
Asp Gln Val Gly Glu Phe	Phe Glu Glu Cys Gln Val Tyr	Arg Ile Asp
	195	200
His Tyr Leu Gly Lys Glu	Thr Val Thr Glu Leu Ala	Gly Val Ala Phe
	210	215
Cys Gln Leu Pro Val Cys	Glu Gln Met Gly Gln Pro	His Tyr Arg Pro
	225	230
Arg Gly Asn Tyr Arg Gly	Gly Arg Gly Gly His Arg	Ser Pro Leu Gly
	245	250
		255

<210> 6358

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6358

Ala Ser Ser Leu Arg Ser	Val Arg Phe Thr Val Leu	Thr Thr Ile Trp
1	5	10
Ala Lys Arg Arg Leu	Leu Asn Leu Leu Ala Trp	Arg Phe Ala Asn Ser
	20	25
		30

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Leu Phe Val Asn Lys Trp Asp Asn Arg Thr Ile Asp His Val Glu Ile
    35          40          45
Thr Val Ala Glu Glu Val Gly Ile Glu Ala Arg Trp Gly Asn Phe Asp
    50          55          60
Gln Ala Gly Gln Met Arg Asp Met Ile Gln Asn His Leu Leu Gln Ile
    65          70          75          80
Leu Cys Met Ile Ala Met Ser Pro Pro Ser Asp Leu Thr Ala Asp Ser
    85          90          95
Ile Arg Asp Ala Lys Val Lys Val Leu Lys Ser Leu Arg Arg Ile Asp
    100          105          110
Arg Ser Asn Val Arg Glu Lys Thr Val Arg Gly Gln Tyr Thr Ala Gly
    115          120          125
Phe Ala Gln Gly Lys Lys Val Pro Gly Tyr Leu Glu Glu Gly Ala
    130          135          140
Asn Lys Ser Ser Asn Thr Glu Thr Phe Val Ala Ile Arg Val Asp Ile
    145          150          155          160
Asp Asp Trp Arg Trp Ala Gly Val Pro Phe Tyr Leu Arg Thr Gly Lys
    165          170          175
Arg Leu Pro Ala Lys Cys Ser Glu Val Val Val Tyr Phe Lys Asn Pro
    180          185          190
Glu Leu Asn Leu Phe Lys Glu Ser Trp Gln Glu Leu Pro Gln Asn Lys
    195          200          205
Leu Thr Ile Arg Leu Gln Pro Asp Glu Gly Val Asp Ile Gln Ile Leu
    210          215          220
Asn Lys Val Pro Gly Leu Asp His Lys His Asn Leu Gln Thr Thr Lys
    225          230          235          240
Leu Asp Leu Ser Tyr Ser Asp Thr Val His His Tyr
    245          250

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<210> 6359

<211> 314

<212> PRT

<213> *Enterobacter cloacae*

<400> 6359

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Tyr Arg Leu Asn Arg Ile Lys Val Ser Ser Leu Tyr Glu Ile Val Tyr
1          5          10          15
Ala Leu Met Ser Val Leu Leu Thr Met Asn Met Leu Glu Lys Ile Gln
    20          25          30
Phe Gln Leu Glu His Leu Ser Lys Ser Glu Arg Lys Val Ala Glu Val
    35          40          45
Ile Leu Ala Ala Pro Ala Gln Ala Ile His Ser Ser Ile Ala Ala Leu
    50          55          60
Ala Gln Glu Ser Gly Val Ser Glu Pro Thr Val Asn Arg Phe Cys Arg
    65          70          75          80
Ser Leu Asp Thr Arg Gly Phe Pro Asp Phe Lys Leu His Leu Ala Gln
    85          90          95
Ser Leu Ala Asn Gly Thr Pro Tyr Val Asn Arg Asn Val Asp Glu Asp
    100          105          110
Asp Ser Val Asp Ala Tyr Thr Ala Lys Ile Phe Glu Ser Ala Met Ala
    115          120          125
Thr Leu Asp His Val Arg Gln Ser Leu Asp Met Ser Ser Val Asn Arg
    130          135          140
Ala Val Asp Leu Leu Thr Gln Ala Lys Arg Ile Ala Phe Phe Gly Leu
    145          150          155          160
Gly Ser Ser Ala Ala Val Ala His Asp Ala Met Asn Lys Phe Phe Arg
    165          170          175
Phe Asn Val Pro Val Ile Tyr Ser Asp Asp Ile Val Leu Gln Arg Met
    180          185          190
Ser Cys Met Asn Cys Ser Glu Asp Asp Val Val Val Leu Ile Ser His
    195          200          205

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Thr Gly Arg Thr Lys Ser Gln Val Glu Leu Ala Gln Leu Ala Arg Asp
 210 215 220
 Asn Asp Ala Met Val Ile Ala Leu Thr Thr Ala Gly Thr Pro Leu Ala
 225 230 235 240
 Arg Glu Ala Thr Leu Ala Ile Thr Leu Asp Val Pro Glu Asp Thr Asp
 245 250 255
 Met Tyr Met Pro Met Val Ser Arg Leu Ala Gln Leu Thr Val Ile Asp
 260 265 270
 Val Leu Ala Thr Gly Phe Thr Leu Arg Arg Gly Ala Lys Phe Arg Asp
 275 280 285
 Asn Leu Lys Arg Val Lys Glu Ala Leu Lys Glu Ser Arg Phe Asp Lys
 290 295 300
 Glu Leu Leu Ile Lys Ser Asp Val Pro
 305 310

<210> 6360

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 6360

Arg Arg Ser Thr Ile Tyr Gly Ile Arg Ser Pro Arg Tyr Cys Leu Ala
 1 5 10 15
 Ile Asp Glu Gly Arg Phe Tyr Val His Ala Thr Pro Lys Leu Phe Gln
 20 25 30
 Ser Thr Glu Tyr Tyr Met Ser Arg Arg Leu Arg Arg Thr Lys Ile Val
 35 40 45
 Thr Thr Leu Gly Pro Ala Thr Asp Arg Asp Asn Asn Leu Glu Lys Ile
 50 55 60
 Ile Ala Ala Gly Ala Asn Val Val Arg Met Asn Phe Ser His Gly Thr
 65 70 75 80
 Pro Glu Asp His Lys Leu Arg Ala Asp Lys Val Arg Glu Ile Ala Ala
 85 90 95
 Lys Leu Gly Arg His Val Ala Ile Leu Gly Asp Leu Gln Gly Pro Lys
 100 105 110
 Ile Arg Val Ser Thr Phe Lys Glu Gly Lys Val Phe Leu Asn Ile Gly
 115 120 125
 Asp Lys Phe Leu Leu Asp Ala Asn Leu Ser Lys Gly Glu Gly Asp Lys
 130 135 140
 Glu Lys Val Gly Ile Asp Tyr Lys Gly Leu Pro Ala Asp Val Val Pro
 145 150 155 160
 Gly Asp Ile Leu Leu Leu Asp Asp Gly Arg Val Gln Leu Lys Val Leu
 165 170 175
 Glu Val Gln Gly Met Lys Val Phe Thr Glu Val Thr Val Gly Gly Pro
 180 185 190
 Leu Ser Asn Asn Lys Gly Ile Asn Lys Leu Gly Gly Gly Leu Ser Ala
 195 200 205
 Glu Ala Leu Thr Asp Lys Asp Lys Ala Asp Ile Val Thr Ala Ala Gln
 210 215 220
 Ile Gly Val Asp Tyr Leu Ala Val Ser Phe Pro Arg Cys Gly Glu Asp
 225 230 235 240
 Leu Asn Tyr Ala Arg Arg Leu Ala Arg Asp Ala Gly Cys Asp Ala Lys
 245 250 255
 Ile Val Ala Lys Val Glu Arg Ala Glu Ala Val Cys Asp Gln Asp Ala
 260 265 270
 Met Asp Asp Val Ile Leu Ala Ser Asp Val Val Met Val Ala Arg Gly
 275 280 285
 Asp Leu Gly Val Glu Ile Gly Asp Pro Glu Leu Val Gly Ile Gln Lys
 290 295 300
 Ala Leu Ile Arg Arg Ala Arg Gln Leu Asn Arg Ala Val Ile Thr Ala
 305 310 315 320

Thr Gln Met Met Glu Ser Met Ile Thr Asn Pro Met Pro Thr Arg Ala
 325 330 335
 Glu Val Met Asp Val Ala Asn Ala Val Leu Asp Gly Thr Asp Ala Val
 340 345 350
 Met Leu Ser Ala Glu Thr Ala Ala Gly Gln Tyr Pro Ala Glu Thr Val
 355 360 365
 Ala Ala Met Ala Arg Val Cys Leu Gly Ala Glu Lys Ile Pro Ser Ile
 370 375 380
 Asn Val Ser Lys His Arg Leu Asp Ile Gln Phe Asp Asn Val Glu Glu
 385 390 395 400
 Ala Ile Ala Met Ser Ala Met Tyr Ala Ala Asn His Leu Lys Gly Val
 405 410 415
 Thr Ala Ile Ile Thr Met Thr Glu Ser Gly Arg Thr Ala Leu Met Thr
 420 425 430
 Ser Arg Ile Ser Ser Gly Leu Pro Ile Phe Ala Met Ser Arg His Glu
 435 440 445
 Arg Thr Leu Asn Leu Thr Ala Leu Tyr Arg Gly Val Thr Pro Val Tyr
 450 455 460
 Phe Asp Ser Thr Asn Asp Gly Val Ala Ala His Asp Ala Val Asn
 465 470 475 480
 Leu Leu Arg Asp Lys Gly Tyr Leu Val Ser Gly Asp Ile Val Ile Val
 485 490 495
 Thr Gln Gly Asp Val Met Ser Thr Ile Gly Ser Thr Asn Thr Arg
 500 505 510
 Val Leu Thr Val Glu
 515

<210> 6361

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 6361

Lys Glu Leu Ala Leu Lys Lys Ile Phe Val Ser Val Phe Ala Ala Ala
 1 5 10 15
 Val Ala Leu Ser Ala Leu Thr Gly Cys Thr Arg Thr Ser Tyr Ala Ile
 20 25 30
 His Thr Asn Asp Gly Arg Thr Ile Val Ser Asp Gly Lys Pro Thr Glu
 35 40 45
 Ser Asp Ser Gly Leu Leu Gly Tyr Lys Asp Ala Asn Gly Val Lys Gln
 50 55 60
 Gln Ile Asn Lys Ala Asp Val Lys Glu Val Ser Glu Ile Pro His
 65 70 75 80

<210> 6362

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 6362

Arg Glu Pro Ser Met Asn Ser Leu Leu Thr Leu Ala Lys Asp Leu Glu
 1 5 10 15
 Gln Lys Ser Lys Val Gln Gln Gln Thr Thr Gly Glu Met Leu Lys Ala
 20 25 30
 Ala Phe Ser Glu His Asp Lys Ser Val Arg Thr Glu Leu Asn Glu Ser
 35 40 45
 Glu Lys Arg Ile Ser Ala Ala Ile His Asp His Asp Arg Met Leu Ser
 50 55 60
 Ser Ala Met Ser Gln Arg Thr Lys Gly Met Leu Arg Met Val Ser Gln
 65 70 75 80
 Thr Trp Leu Thr Ile Val Leu Val Ser Val Leu Leu Ile Ala Ser Ser

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      85              90              95
Ala Gly Ile Leu Trp Trp Gln Gly Gln Ile Leu Asp Asn Tyr Thr
      100          105          110
Thr Ile Arg Glu Gln Lys Ser Thr Gln Ala Met Leu Ser Glu Arg Asn
      115          120          125
Ser Gly Val Gln Leu Thr Thr Cys Gly Glu Glu Arg Arg Arg Cys Val
      130          135          140
Arg Val Asn Pro Asp Ala Gly Arg Phe Gly Glu Asp Ser Ser Trp Met
      145          150          155          160
Ile Leu Ala Gly Lys
      165

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<210> 6363

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 6363

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His Met Thr Glu Leu Glu Lys Gln Leu Leu Ser Ala Leu Glu Gln Leu
1          5          10          15
Gln Gln Asp Tyr Ser Lys Arg Leu Asp Glu Trp Glu Ser Ala Phe Ala
      20          25          30
Glu Trp Arg Thr Met Cys Gly Leu Met Gln Arg Glu Asn Ala Ala Leu
      35          40          45
Ser Glu Arg Val Thr Asp Leu Ser Thr Gln Val Leu Ser Leu Ser Glu
      50          55          60
Gln Leu Arg Arg Leu Ser
      65          70

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<210> 6364

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 6364

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Ile Ser Val Ile Trp Gln Arg Leu Leu Lys Met Pro Glu Thr Lys Gln
1          5          10          15
Glu Ala Ala Gln Ala Ile Thr Arg Gly Leu Leu Ala Leu Ala Ser Ser
      20          25          30
Gly Glu Leu Lys Thr Arg His Asp Val Thr Glu Ala Leu Glu Ser Ala
      35          40          45
Gly Phe Glu Val Val Arg Thr Thr Lys Ser Ser Ile Ser Ile Ala Asp
      50          55          60
Pro Asp Gly Gly Arg Asn Ile Arg Leu Lys Gly Ala Ile Tyr Glu Gln
      65          70          75          80
Ser Phe Asn Ala Gly Glu Gly Leu Arg Ala Glu Ile Glu Ser Ala Ala
      85          90          95
Thr Asp Tyr Arg Arg Asp Ala Glu Ser Arg Ile Gln Arg Ala Arg
      100          105          110

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<210> 6365

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 6365

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Val Cys Gln Asn Gly Thr Glu Arg Lys Arg Glu Glu Asn Gln Arg Arg
1          5          10          15
His Pro Arg Pro Arg Pro Asp Ala Val Leu Ser His Glu Pro Ala Tyr
      20          25          30
Glu Arg Asp Ala Ala His Gly Gln Pro Asp Val Ala Asp His Arg Pro

```

35 40 45
 Gly Leu Arg Ala Ala Asp Ser Leu Lys Cys Gly His Ser Met Val Ala
 50 55 60
 Gly Ala Ala Asp Thr Arg Gln Leu His Asp His Pro Gly Ala Glu Glu
 65 70 75 80
 His Ala Gly His Ala Val Arg Glu Glu Gln Arg Arg Ala Ala His Asp
 85 90 95
 Leu Arg Arg Gly Thr Thr Pro Leu Arg Glu Gly Glu Pro Gly Arg Gly
 100 105 110
 Thr Val Arg Arg Gly Phe Glu Leu Asp Asp Thr Gly Gly Glu Ile Ala
 115 120 125
 His Asp Gly Thr Gly Lys Thr Val Ala Glu Arg Ile Arg Ala Ala Thr
 130 135 140
 Ala Gly Leu Leu Glu Lys Ala Gly Arg Val Gly Glu Arg Leu Arg Gly
 145 150 155 160
 Met Ala Asp Asp Val Trp Ser Tyr Ala Thr Gly Glu Arg Ser Ala Glu
 165 170 175
 Arg Ala Arg His Gly Leu Glu His Ala Gly Ala Glu Phe Lys Arg Ala
 180 185 190
 Ala Ala Pro Val Val Val Arg Leu Asn Asp Ile Glu Ala His Arg Glu
 195 200 205
 Gln Glu Arg Ala Ala Gln His Gln Lys Ala Leu Glu Leu Glu Arg Ser
 210 215 220
 Gln Arg Gln Gln Glu Tyr Asp Gly Pro Ser Leu
 225 230 235

<210> 6366

<211> 1091

<212> PRT

<213> Enterobacter cloacae

<400> 6366

Lys Pro Arg Lys Ala Ala Arg Thr Ser Gly Ala Pro Asp Gln Ser Tyr
 1 5 10 15
 Thr Gly Lys Leu Leu Lys Lys Pro Lys Phe Thr Gln Trp Ala Leu Ser
 20 25 30
 Leu Ala Arg Gly Ser Tyr Ile Gln Lys Arg Gly Ser His Met Glu Phe
 35 40 45
 Phe Tyr Val Val Lys Ala Thr Gln Lys Ser Gly Lys Glu Asp Ala Val
 50 55 60
 Ile Trp Phe Thr Ala Lys Ser Glu Ala Arg Ala Asn Leu Gln Leu Asp
 65 70 75 80
 Val Glu Leu Glu Asp Ala Gly Ile Glu Thr Gly Arg Gly Lys Asn Tyr
 85 90 95
 Ser Lys Pro Ala Arg Thr Asp Phe Pro Val Tyr Asn Asp Leu Pro Glu
 100 105 110
 Glu Ser Thr Val Asp Tyr Thr Trp Cys Lys Arg Tyr Glu Leu Gln Asp
 115 120 125
 Asp Gly Arg Thr Trp Leu Pro Lys Ala Gly Ala Val Ser Thr Gly Ala
 130 135 140
 Val Asp Asn Thr Ala Ala Pro Glu Pro Thr Val Lys Val Glu Ala Thr
 145 150 155 160
 Val Glu Cys Val Pro Leu Glu Asn Arg Thr Pro Ala Val Arg Phe Ala
 165 170 175
 Val His Leu Thr Ser Asp Lys Tyr Gln Ser His Ile Thr Lys Glu Gln
 180 185 190
 Gln Leu Ala Ala Ser Glu Met Ser Leu Asp Glu Gly Asn Thr Tyr Leu
 195 200 205
 Gln Asn Leu Leu Gln Ala Lys Asn Asp Ile Pro Glu Val Asp Glu Leu
 210 215 220
 Ser Leu Asn Ala Glu Trp Lys Leu Val Gln Ala Ile Lys Gln Val Phe

225		230		235		240
Ala	Pro	Asp	Glu	Glu	His	Glu
					Val	Lys
				Leu	250	Leu
				Ala	Ala	Phe
				Met	255	Ala
Asp	Trp	Leu	Arg	Val	Asp	Ala
				245	Gly	Asp
				260	Arg	Asn
				265	Glu	Leu
				270	Val	Arg
Trp	Arg	Ser	Gly	Lys	Leu	Thr
				275	Leu	Leu
				280	Lys	Ser
				285	Glu	Ser
				290	Thr	Thr
				295	Pro	Glu
				300	Pro	Asp
				305	Asn	Gly
				310	Ile	Gln
				315	Arg	Tyr
				320	Pro	Val
				325	Val	Val
				330	Arg	Met
				335	Pro	Phe
				340	Arg	Lys
				345	Gln	Leu
				350	Leu	Leu
				355	Ala	Ala
				360	Glu	Glu
				365	Met	Asn
				370	Glu	Val
				375	Thr	Thr
				380	Arg	Tyr
				385	Thr	Thr
				390	Val	Val
				395	Arg	Met
				400	Pro	Phe
				405	Arg	Lys
				410	Gln	Leu
				415	Leu	Leu
				420	Ala	Ala
				425	Glu	Glu
				430	Met	Asn
				435	Thr	Thr
				440	Arg	Tyr
				445	Thr	Thr
				450	Val	Val
				455	Arg	Met
				460	Pro	Met
				465	Asp	Phe
				470	His	His
				475	Phe	Glu
				480	Ile	Pro
				485	Val	Val
				490	Ala	Lys
				495	Lys	Glu
				500	Glu	Glu
				505	Leu	Leu
				510	Val	Val
				515	Ala	Ala
				520	Pro	Pro
				525	Thr	Thr
				530	Val	Val
				535	Leu	Leu
				540	Pro	Pro
				545	Thr	Thr
				550	Val	Val
				555	Glu	Glu
				560	Ala	Ala
				565	Val	Val
				570	Gln	Gln
				575	Pro	Pro
				580	Thr	Thr
				585	Val	Val
				590	Leu	Leu
				595	Met	Met
				600	Glu	Glu
				605	Val	Val
				610	Ala	Ala
				615	Pro	Pro
				620	Ser	Ser
				625	Glu	Glu
				630	Thr	Thr
				635	Val	Val
				640	Ala	Ala
				645	Gln	Gln
				650	Pro	Pro
				655	Thr	Thr
				660	Val	Val
				665	Leu	Leu
				670	Met	Met
				675	Glu	Glu
				680	Thr	Thr
				685	Val	Val
				690	Ala	Ala
				695	Pro	Pro
				700	Thr	Thr
				705	Val	Val
				710	Leu	Leu
				715	Met	Met
				720	Gly	Gly
				725	Asn	Asn

Leu Val His Ala Leu Ala Leu Gln Pro Glu Asn Leu Glu Thr Glu Phe
 725 730 735
 Ser Val Glu Pro Gln Ile Pro Glu Gly Ala Phe Thr Thr Thr Ala Thr
 740 745 750
 Leu Arg Glu Phe Ile Asp Ala Tyr Asn Ala Ser Leu Pro Ala Leu Leu
 755 760 765
 Ser Ala Asp Glu Ile Lys Ala Leu Leu Glu Glu His Asn Ala Ser Leu
 770 775 780
 Pro Ala Gln Val Pro Leu Gly Ala Ser Gln Glu Glu Thr Ala Gln Ser
 785 790 795 800
 Tyr Met Ala Leu Pro Ala Glu Tyr Gln Arg Ile Glu Glu Gly Gln Lys
 805 810 815
 Gln Thr Ala Ala Met Lys Ala Cys Ile Lys Glu Tyr Asn Ala Thr
 820 825 830
 Leu Pro Val Pro Val Lys Thr Ser Gly Ser Arg Asp Ala Leu Leu Glu
 835 840 845
 Gln Leu Ala Ile Ile Asn Pro Asp Leu Val Ala Gln Glu Ala Gln Lys
 850 855 860
 Ser Thr Pro Leu Lys Val Ser Gly Ser Lys Ala Asp Met Ile Gln Ala
 865 870 875 880
 Val Lys Ser Val Lys Pro Asp Ala Ile Phe Ala Asp Glu Leu Leu Asp
 885 890 895
 Val Trp Arg Asp Asn Pro Asp Glu Lys Ile Leu Val Thr Arg Gln Gln
 900 905 910
 Leu Ala Thr Ala Arg Ala Ile Gln Ser Ala Leu Leu Ala His Pro Thr
 915 920 925
 Ala Gly Met Leu Leu Thr His Pro Ser Arg Ala Val Glu Val Ser Tyr
 930 935 940
 Phe Gly Phe Asp Asp Glu Thr Gly Leu Glu Val Arg Val Arg Pro Asp
 945 950 955 960
 Leu Glu Ile Glu Leu Asp Gly Val Arg Ile Gly Ala Asp Leu Lys Thr
 965 970 975
 Ile Ser Met Trp Asn Val Lys Gln Glu Ser Leu Arg Ala Arg Leu His
 980 985 990
 Arg Glu Ile Ile Asp Arg Asp Tyr His Leu Ser Ala Ala Met Tyr Cys
 995 1000 1005
 Glu Thr Ala Ala Leu Asp Gln Phe Phe Trp Ile Phe Val Asn Lys Asp
 1010 1015 1020
 Glu Asn Tyr His Trp Ile Ala Ile Ile Glu Ala Ser Thr Glu Leu Leu
 1025 1030 1035 1040
 Glu Leu Gly Met Leu Glu Tyr Arg Lys Thr Ile Arg Ala Ile Ala Thr
 1045 1050 1055
 Gly Phe Asp Thr Gly Glu Trp Pro Ala Pro Ile Thr Thr Asp Tyr Thr
 1060 1065 1070
 Asp Glu Leu Asn Asp Phe Asp Leu Arg Arg Leu Glu Ala Leu Arg Ala
 1075 1080 1085
 Gln Ala
 1090

<210> 6367

<211> 365

<212> PRT

<213> *Enterobacter cloacae*

<400> 6367

Gly Gly Phe Met His Asn Thr Asn Val Thr Val Thr Asp Gln Asn Thr
 1 5 10 15
 Val Ile Asn Ser Asn Val Ala Leu Phe Asp Ser Gln Tyr Leu Asn Ala
 20 25 30
 Ile Ser Thr Phe Ala Gln Ile Met Ala Gln Gly Thr Ala Thr Val Pro
 35 40 45

Lys His Leu Gln Gly Asn Gln Ala Asp Cys Met Ala Val Ala Met Gln
 50 55 60
 Ala Ala Gln Trp Gln Met Asn Pro Phe Ala Val Ala Gln Lys Thr His
 65 70 75 80
 Leu Ile Asn Gly Val Leu Gly Tyr Glu Ala Gln Leu Val Asn Ala Val
 85 90 95
 Ile Ser Arg Ser Gly Val Leu Ala Ser Arg Phe Glu Tyr Glu Trp Tyr
 100 105 110
 Gly Pro Trp Glu Lys Val Val Gly Lys Phe His Ile Arg Lys Gly Asp
 115 120 125
 Lys Gly Glu Tyr Arg Val Pro Gly Trp Thr Leu Ala Asp Glu Ala Gly
 130 135 140
 Ile Gly Ile Ile Ile Arg Ala Thr Leu Lys Gly Glu Asp Gln Pro Arg
 145 150 155 160
 Glu Leu Asp Leu Leu Leu Ala Gln Ala Arg Thr Arg Asn Ser Thr Leu
 165 170 175
 Trp Ala Asp Asp Pro Arg Gln Gln Leu Ala Tyr Leu Ala Val Lys Arg
 180 185 190
 Trp Ala Arg Leu Phe Cys Pro Asp Val Ile Leu Gly Val Tyr Thr Pro
 195 200 205
 Asp Glu Leu Asp Asp Arg Arg Glu Glu Arg Glu Val Asn Pro Ala Pro
 210 215 220
 Ala Gln His Val Ser Leu Ala Asp Ile Ser Gly Asp Asn Val Thr Thr
 225 230 235 240
 Thr Gln Thr Ala Gln Glu Ser Ala Gln Asn Ile Tyr Ala Leu Ala Asp
 245 250 255
 Asp Phe Arg Asp Arg Ile Glu Ala Ala Gln Asp Val Asp Ser Ala Lys
 260 265 270
 Ala Leu Arg Ala Asp Ile Glu Thr Val Lys Ala Thr Leu Gly Ser Ala
 275 280 285
 Leu Phe Thr Glu Leu Lys Asn Lys Ala Val Lys Arg Tyr Tyr Leu Val
 290 295 300
 Asp Ala Arg Asn Lys Val Glu Ala Ala Ile Asn Ser Leu Pro Ser Ser
 305 310 315 320
 Asp Glu Pro Asp Ala Ala Ala Arg Phe Ala Glu Val Glu Arg Val Leu
 325 330 335
 Ala Ala Ser Lys Arg His Leu Gly Asp Glu Leu His Gly Gln Phe Ser
 340 345 350
 Ile Thr Leu Ala Asp Met Lys Pro Glu Tyr Val Asp
 355 360 365

<210> 6368

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6368

Thr Met Ser Gln Val Ile Phe Asn Glu Glu Trp Val Val Gly Ala Arg
 1 5 10 15
 Leu Thr Glu Lys Thr Gly Leu Thr Glu Arg Gln Ile Glu Lys Tyr Arg
 20 25 30
 Gln Gly Cys Trp Val Glu Gly Val His Phe Lys Arg Val Ser Pro Ser
 35 40 45
 Gly Glu Lys Thr Leu Arg Gly Thr Trp Trp Tyr Asn Tyr Pro Arg Ile
 50 55 60
 Asn Gln Leu Ile Arg Asp Ala
 65 70

<210> 6369

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 6369

Phe Phe Ala Ala Cys Ala Thr Tyr Trp Arg Lys Arg Gly Ile Gln Met
 1 5 10 15
 Cys Asn Ser Thr Lys Cys Gly Tyr Cys Gly Lys Thr Val Lys Pro Gly
 20 25 30
 Glu Val Val Lys Ser Thr Leu Leu Tyr Arg Asn Gly Ala Gln Leu Ala
 35 40 45
 Arg Lys Glu Lys Glu Tyr Cys Ser Glu Arg Cys Ala Ser Tyr Asp Gln
 50 55 60
 Met Ala His Glu Ala
 65 70

<210> 6370

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 6370

Gly Met Arg Lys Met Ala Ala Leu Pro Thr Gly Val Glu Ile Arg Asn
 1 5 10 15
 Asn Lys Ile Cys Ile Trp Phe Met Tyr Arg Gly Lys Arg Cys Arg Glu
 20 25 30
 Ile Leu Lys Gly Trp Ile Asn Ser Pro Ala Asn Ile Lys Lys Ala Gly
 35 40 45
 Asn Leu Arg Ala Val Ile Val Ser Glu Ile Asn Leu Gly Glu Phe Asp
 50 55 60
 Tyr Asn Gln Arg Phe Pro Ser Ser Ser Arg Ala Lys Lys Thr Val Thr
 65 70 75 80
 Thr Val Ser Val Gln Thr Phe Ser Glu Leu Cys Glu Leu Trp Thr Ser
 85 90 95
 Ile Lys Glu Thr Glu Ile Ser Ala Asn Thr Met Arg Lys Thr Arg Leu
 100 105 110
 Gln Leu Gly Thr Leu Met His Ile Ile Asn Gly Asp Thr Pro Val Ser
 115 120 125
 Ala Ile Arg His Ser Asp Ile Leu Lys Tyr Arg Lys Glu Leu Leu Asn
 130 135 140
 Gly Glu Thr Leu Tyr Leu Ala Asn Pro Arg Ser Asn Lys Gln Gly Arg
 145 150 155 160
 Thr Val Arg Thr Val Asn Asn Tyr Ile Ser Leu Leu Cys Ser Leu Leu
 165 170 175
 Arg Phe Ala His Lys Ser Gly Phe Ile Ser Gly Lys Pro Phe Glu Gly
 180 185 190
 Ile Lys Lys Leu His Lys Gly Lys Val Lys Pro Asp Pro Leu Thr Lys
 195 200 205
 Gln Glu Phe Ser Leu Leu Ala Glu Ser Glu Arg Gly Gln Ser Leu Asn
 210 215 220
 Met Trp Thr Phe Ala Val Tyr Thr Gly Val Arg His Gly Glu Leu Ala
 225 230 235 240
 Ala Leu Ala Trp Glu Asp Ile Asp Trp Glu Lys Gly Thr Ala His Ile
 245 250 255
 Lys Arg Asn Leu Asn Ala Leu Gly Met Phe Gly Pro Pro Lys Thr Glu
 260 265 270
 Ala Gly Asn Arg Val Ile Thr Leu Leu Glu Pro Ala Leu Glu Ala Leu
 275 280 285
 Lys Ala Gln Arg Lys Leu Thr Ala Leu Gln Pro Lys Thr Glu Ile Val
 290 295 300
 Phe Asn His Arg Glu Tyr Gly Ala Val Glu Asn Gln Ser Leu Arg Phe
 305 310 315 320
 Val Phe Ile Pro Arg Met Arg Lys Gly Glu Gln Lys Ala Tyr Tyr Ser

325 330 335
 Leu Ser Ser Ile Gly Ala Arg Phe Asn Ala Ala Val Lys Arg Ala Gly
 340 345 350
 Ile Arg Arg Arg Asn Pro Tyr His Thr Arg His Thr Phe Ala Cys Trp
 355 360 365
 Leu Leu Ser Ala Gly Ala Asn Pro Ser Phe Ile Ala Ser Gln Met Gly
 370 375 380
 His Glu Asn Ala Gln Met Val Tyr Glu Val Tyr Gly Ala Trp Ile Glu
 385 390 395 400
 Glu Met Asn Gly Glu Gln Val Leu Met Leu Asn Asn Lys Leu Ala Arg
 405 410 415

<210> 6371

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 6371

Ser His Gly Ala Leu Ala Gly Thr Gln Val Ser Ala Leu Ile Thr Leu
 1 5 10 15
 Thr Pro Leu Phe Thr Leu Leu Phe Ser Asp Leu Leu Ser Met Ala Trp
 20 25 30
 Pro Asp Val Phe Val Lys Pro Met Leu Asn Leu Leu Gly Tyr Leu Gly
 35 40 45
 Ala Phe Val Met Val Ala Gly Ala Met Tyr Ser Ala Ile Gly His Arg
 50 55 60
 Leu Trp Gly Arg Trp Arg Lys Asn Glu Ala Val Val Ile Val Pro Arg
 65 70 75 80
 Ser Gly Glu

<210> 6372

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 6372

Val Thr Glu Ser Lys Met Lys Phe Val Asp Glu Ala Thr Ile Leu Val
 1 5 10 15
 Val Ala Gly Asp Gly Gly Asn Gly Cys Val Ser Phe Arg Arg Glu Lys
 20 25 30
 Tyr Ile Pro Arg Gly Gly Pro Asp Gly Gly Asp Gly Gly Asp Gly Gly
 35 40 45
 Asp Val Trp Leu Glu Ala Asp Glu Asn Leu Asn Thr Leu Ile Asp Tyr
 50 55 60
 Arg Phe Glu Lys Ser Phe Arg Ala Glu Arg Gly Gln Asn Gly Gln Ser
 65 70 75 80
 Arg Asp Cys Thr Gly Lys Arg Gly Lys Asp Val Thr Ile Lys Val Pro
 85 90 95
 Val Gly Thr Arg Val Ile Asp Gln Gly Thr Gly Glu Thr Met Gly Asp
 100 105 110
 Met Thr Lys His Gly Gln Arg Leu Met Val Ala Lys Gly Gly Trp His
 115 120 125
 Gly Leu Gly Asn Ser Arg Phe Lys Ser Ser Val Asn Arg Thr Pro Arg
 130 135 140
 Gln Lys Thr Met Gly Thr Pro Gly Asp Lys Arg Asp Leu Gln Leu Glu
 145 150 155 160
 Leu Met Leu Leu Ala Asp Val Gly Met Leu Gly Met Pro Asn Ala Gly
 165 170 175

Lys Ser Thr Phe Ile Arg Ala Val Ser Ala Ala Lys Pro Lys Val Ala
 180 185 190
 Asp Tyr Pro Phe Thr Thr Leu Val Pro Ser Leu Gly Val Val Arg Met
 195 200 205
 Asp Asn Glu Lys Ser Phe Val Val Ala Asp Ile Pro Gly Leu Ile Glu
 210 215 220
 Gly Ala Ala Glu Gly Ala Gly Leu Gly Ile Arg Phe Leu Lys His Leu
 225 230 235 240
 Glu Arg Cys Arg Val Leu Leu His Leu Ile Asp Ile Asp Pro Ile Asp
 245 250 255
 Gly Ser Asp Pro Val Glu Asn Ala Arg Ile Ile Ile Gly Glu Leu Glu
 260 265 270
 Lys Tyr Ser Glu Lys Leu Ala Gln Lys Pro Arg Trp Leu Val Phe Asn
 275 280 285
 Lys Ile Asp Leu Met Asp Lys Ala Glu Ala Glu Ala Lys Ala Lys Ala
 290 295 300
 Ile Ala Glu Ala Met Gly Trp Glu Asp Lys Tyr Trp Leu Ile Ser Ala
 305 310 315 320
 Ala Ser Gln Val Gly Val Lys Asp Leu Cys Trp Asp Val Met Thr Phe
 325 330 335
 Ile Ile Glu Asn Pro Val Val Gln Ala Glu Glu Ala Lys Gln Pro Glu
 340 345 350
 Lys Val Glu Phe Met Trp Asp Asp Tyr His Arg Gln Gln Leu Glu Glu
 355 360 365
 Leu Glu Ala Glu Glu Asp Asp Glu Asp Trp Asp Asp Trp Asp Glu
 370 375 380
 Asp Asp Glu Glu Gly Val Glu Phe Ile Tyr Lys His
 385 390 395

<210> 6373

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 6373

Ile Phe Ile Ala His Ser Glu Ser Tyr Glu Asp Val Arg Gly Ser Gly
 1 5 10 15
 Val Tyr Met Tyr Ala Val Phe Gln Ser Gly Lys Gln His Arg Val
 20 25 30
 Ser Glu Gly Gln Thr Val Arg Leu Glu Lys Leu Asp Ile Ala Thr Gly
 35 40 45
 Glu Ser Val Glu Phe Ala Glu Val Leu Met Ile Ala Asn Gly Glu Glu
 50 55 60
 Val Lys Ile Gly Val Pro Phe Val Asp Gly Gly Val Ile Lys Ala Glu
 65 70 75 80
 Val Val Ala His Gly Arg Gly Glu Lys Val Lys Ile Val Lys Phe Arg
 85 90 95
 Arg Arg Lys His Tyr Arg Lys Gln Gln Gly His Arg Gln Trp Phe Thr
 100 105 110
 Asp Val Lys Ile Thr Gly Ile Ser Ala
 115 120

<210> 6374

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 6374

Val Arg Phe Ser Arg Ser Gly Asn Gly Leu Lys Pro Arg Asn Val Leu
 1 5 10 15
 Arg Gly Phe Leu His Trp Lys Pro Gly Lys Phe Ser Val Gly Lys Thr

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      20      25      30
Gly Met Lys  Gln Gln Ala Gly Ile Gly Ile Leu Leu Ala Leu Thr Thr
      35      40      45
Ala Met Cys Trp Gly Ala Leu Pro Ile Ala Met Lys Gln Val Leu Glu
      50      55      60
Val Met Glu Pro Pro Thr Val Val Phe Tyr Arg Phe Leu Met Ala Ser
      65      70      75      80
Ile Gly Leu Gly Ala Ile Leu Ala Val Lys Gly Lys Leu Pro Pro Leu
      85      90      95
Arg Ile Phe Arg Lys Pro Arg Trp Leu Val Leu Leu Ala Ile Ala Thr
      100      105      110
Gly Gly Leu Phe Gly Asn Phe Ile Leu Phe Ser Ser Ser Leu Gln Tyr
      115      120      125
Leu Ser Pro Thr Ala Ser Gln Val Ile Gly Gln Leu Ser Pro Val Gly
      130      135      140
Met Met Val Ala Ser Val Phe Ile Leu Lys Glu Lys Met Arg Gly Thr
      145      150      155      160
Gln Ile Ile Gly Ala Ser Met Leu Leu Cys Gly Leu Val Met Phe Phe
      165      170      175
Asn Thr Ser Leu Ile Glu Ile Phe Thr Arg Leu Thr Asp Tyr Thr Trp
      180      185      190
Gly Val Ile Phe Gly Val Gly Ala Ala Thr Val Trp Val Ser Tyr Gly
      195      200      205
Val Ala Gln Lys Val Leu Leu Arg Arg Leu Ala Ser Gln Gln Ile Leu
      210      215      220
Phe Leu Leu Tyr Thr Leu Cys Thr Leu Ala Leu Leu Pro Leu Ala Lys
      225      230      235      240
Pro Gly Val Ile Thr Gln Leu Ser Asp Trp Gln Leu Ala Cys Leu Ile
      245      250      255
Phe Cys Gly Leu Asn Thr Leu Val Gly Tyr Gly Ala Leu Ala Glu Ala
      260      265      270
Met Ala Arg Trp Gln Ala His Arg
      275      280

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<210> 6375

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 6375

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Gln Met Gln Ala Ile Pro Met Thr Leu Arg Gly Ala Glu Lys Leu Arg
1      5      10      15
Glu Glu Leu Asp Phe Leu Lys Ser Val Arg Arg Pro Glu Ile Ile Ala
      20      25      30
Ala Ile Ala Glu Ala Arg Glu His Gly Asp Leu Lys Glu Asn Ala Glu
      35      40      45
Tyr His Ala Ala Arg Glu Gln Gln Gly Phe Cys Glu Gly Arg Ile Lys
      50      55      60
Asp Ile Glu Ala Lys Leu Ser Asn Ala Gln Val Ile Asp Ile Thr Lys
      65      70      75      80
Met Pro Asn Asn Gly Arg Val Ile Phe Gly Ser Thr Val Thr Val Leu
      85      90      95
Asn Leu Asp Asn Asp Glu Glu Gln Thr Tyr Arg Ile Val Gly Asp Asp
      100      105      110
Glu Ala Asp Phe Lys Gln Asn Leu Ile Ser Val Asn Ser Pro Ile Ala
      115      120      125
Arg Gly Leu Ile Gly Lys Glu Gln Asp Asp Val Val Thr Ile Arg Thr
      130      135      140
Pro Gly Gly Glu Val Glu Tyr Glu Ile Ile Lys Val Glu Tyr Leu
      145      150      155      160

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<210> 6376

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 6376

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Met Ala His Lys Lys Ala Gly Gly Ser Thr Arg Asn Gly Arg Asp Ser
1      5      10      15
Glu Ala Lys Arg Leu Gly Val Lys Arg Phe Gly Gly Glu Ser Val Leu
20      25      30
Ala Gly Ser Ile Ile Val Arg Gln Arg Gly Thr Lys Phe His Ala Gly
35      40      45
Thr Asn Val Gly Cys Gly Arg Asp His Thr Leu Phe Ala Lys Ala Asp
50      55      60
Gly Lys Val Lys Phe Glu Val Lys Gly Pro Asn Asn Arg Lys Tyr Ile
65      70      75      80
Ser Ile Val Ala Glu
85

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<210> 6377

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 6377

```

Arg Ser His Gln Asn Arg Thr Arg Arg Gly Leu Pro Ser Gly Glu Pro
1      5      10      15
Glu Met Asn Ser Met Arg Arg Arg Leu Met Val Leu Leu Ala Val Ile
20      25      30
Leu Leu Phe Phe Gln Leu Ile Ser Val Val Trp Leu Trp His Glu Ser
35      40      45
Arg Glu Gln Ile Gly Phe Leu Val Asn Glu Thr Leu Ser Ala Lys Ala
50      55      60
Arg Asn Asn His Val Glu Lys Glu Ile Arg Glu Ala Ile Ala Ser Leu
65      70      75      80
Leu Val Pro Ser Leu Val Met Val Gly Phe Thr Leu Leu Phe Ser Phe
85      90      95
Trp Ala Val Thr Trp Ile Thr Arg Pro Leu Asn Lys Leu Arg Ala Ser
100      105      110
Leu Ala Asn Arg Ser Ala Asp Asn Leu Thr Pro Leu Pro Met Tyr Ser
115      120      125
Asp Met Glu Glu Ile Gly Ala Val Thr Thr Ser Leu Asn Gln Leu Leu
130      135      140
Ala Arg Leu Asp His Thr Ile Gln Gln Glu Arg Leu Phe Thr Ala Asp
145      150      155      160
Ala Ala His Glu Leu Arg Thr Pro Leu Ala Gly Ile Arg Leu His Leu
165      170      175
Glu Leu Met Ala Gln Ser Gly Ser Pro Gln Ala Thr Pro Leu Ile Asn
180      185      190
Arg Ile Asp Gln Leu Met His Thr Val Glu Gln Leu Leu Met Leu Ala
195      200      205
Arg Ala Gly Gln Ala Met Ala Ser Gly His Tyr Asp Thr Val Asn Trp
210      215      220
Thr Glu Ser Ile Ile Ala Pro Leu Ser Leu Glu His Glu Ala Lys Glu
225      230      235      240
His Thr Val Leu Trp Pro Ala His Ser Thr Leu Thr Val Gln Gly Asp
245      250      255
Ala Val Leu Leu Arg Leu Met Leu Arg Asn Leu Leu Glu Asn Ala Ala
260      265      270
Arg Tyr Ser Pro Ala Gly Thr Ile Ile Glu Val Ala Leu Thr Ala Thr
275      280      285

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Glu Gly Gly Thr Arg Val Ser Val Thr Asp Gln Gly Pro Gly Ile Asp
 290 295 300
 Glu Ala His Arg Gln Ser Ile Thr Glu Pro Phe Arg Arg Leu Asp Gln
 305 310 315 320
 Arg Tyr Gly Gly Ser Gly Leu Gly Leu Ser Ile Val Gln Arg Ile Val
 325 330 335
 Gln Leu His His Gly His Leu Thr Leu Glu Asn Gly Ala Glu Gly Gly
 340 345 350
 Leu Ile Ala Ser Cys Trp Leu Pro Thr Lys Ile Gly
 355 360 365

<210> 6378

<211> 125

<212> PRT

<213> *Enterobacter cloacae*

<400> 6378

Tyr Ile Asn Arg Gly Ser Cys Gln Pro Gln Val Val Lys Thr Met Asn
 1 5 10 15
 Arg Phe Gln Ser Gln Arg Lys Gln Lys Tyr Thr Met Asn Leu Ser Thr
 20 25 30
 Lys Gln Lys Gln His Leu Lys Gly Leu Ala His Pro Leu Lys Pro Val
 35 40 45
 Val Met Leu Gly Asn Asn Gly Leu Thr Glu Gly Val Leu Ala Glu Ile
 50 55 60
 Glu Gln Ala Leu Glu His His Glu Leu Ile Lys Val Lys Ile Ala Ser
 65 70 75 80
 Glu Asp Arg Asp Thr Lys Asn Leu Ile Val Glu Ala Ile Val Arg Glu
 85 90 95
 Thr Gly Ala Cys Asn Val Gln Val Ile Gly Lys Thr Leu Val Leu Tyr
 100 105 110
 Arg Pro Ser Lys Glu Arg Lys Ile Ser Leu Pro Arg
 115 120 125

<210> 6379

<211> 223

<212> PRT

<213> *Enterobacter cloacae*

<400> 6379

Leu Ala Met Lys Leu Leu Ile Val Glu Asp Asp Leu Leu Leu Gln Glu
 1 5 10 15
 Gly Leu Ala Leu Ala Leu Gly Asn Glu Gly Tyr Ala Leu Asp Cys Ala
 20 25 30
 Ala Thr Ala Ala Glu Ala Asp Ala Leu Ile Gln Ser Gly Glu Tyr Ser
 35 40 45
 Leu Val Ile Leu Asp Leu Gly Leu Pro Asp Lys Asp Gly Ala Thr Leu
 50 55 60
 Leu Cys Gln Trp Arg Arg Arg Gly Val Glu Asn Pro Val Leu Ile Leu
 65 70 75 80
 Thr Ala Arg Asp Ala Ile Glu Asp Arg Ile Asn Gly Leu Asp Ser Gly
 85 90 95
 Ala Asp Asp Tyr Leu Val Lys Pro Phe Ala Leu Ala Glu Leu Gln Ala
 100 105 110
 Arg Val Arg Ala Leu Ile Arg Arg Tyr Gln Gly His Ser Asp Asn Leu
 115 120 125
 Leu Thr Asp Gly Asp Ile Thr Leu Asn Leu Gln Thr Gln Gln Val Leu
 130 135 140
 Arg Gln Ser Gln Pro Val Glu Val Thr Pro Lys Glu Phe Ala Leu Leu
 145 150 155 160
 Thr Arg Leu Ile Met Arg Ser Gly Gln Thr Val His Arg Glu Thr Leu

165 170 175
 Gln Gln Asp Ile Tyr Ser Trp Gln Asp Asp Pro Gly Ser Asn Thr Leu
 180 185 190
 Glu Val His Ile His Asn Leu Arg Arg Lys Leu Gly Lys Asp Arg Ile
 195 200 205
 Lys Thr Val Arg Gly Val Gly Tyr Arg Leu Glu Ser Gln Lys
 210 215 220

<210> 6380

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 6380

Arg Glu Ile Met Arg Phe Ser Ser Phe Ile Ile Gly Leu Thr Thr Ser
 1 5 10 15
 Ile Thr Tyr Thr Val Gln Ala Ala Asn Val Asp Glu Tyr Ile Asn Gln
 20 25 30
 Leu Pro Ala Gly Ala Asn Leu Ala Leu Met Val Gln Lys Val Gly Ala
 35 40 45
 Gln Ala Pro Glu Ile Asp Tyr His Ser Gln Gln Met Ala Leu Pro Ala
 50 55 60
 Ser Thr Gln Lys Val Ile Thr Ala Leu Ala Ala Leu Leu Gln Leu Gly
 65 70 75 80
 Pro Asp Phe Arg Phe Thr Thr Thr Leu Glu Thr Arg Gly Asn Val Glu
 85 90 95
 Gly Gly Glu Leu Lys Gly Asp Leu Ile Ala Arg Phe Gly Gly Asp Pro
 100 105 110
 Thr Phe Lys Arg Gln Asp Asp Arg Asn Met Val Ala Val Leu Lys Lys
 115 120 125
 Ser Gly Val Thr Lys Ile Asp Gly Asn Val Leu Ile Asp Thr Ser Ile
 130 135 140
 Phe Ala Ser His Asp Lys Ala Pro Gly Trp Pro Trp Asn Asp Met Thr
 145 150 155 160
 Gln Cys Phe Ser Ala Pro Pro Ala Ala Ala Ile Val Asp Arg Asn Cys
 165 170 175
 Phe Ser Val Ser Leu Tyr Ser Ala Pro Lys Pro Asn Asp Leu Ala Phe
 180 185 190
 Ile Arg Val Ala Ser Tyr Tyr Pro Val Thr Met Phe Ser Gln Val Arg
 195 200 205
 Thr Leu Ala Lys Gly Ser Pro Glu Ala Gln Tyr Cys Glu Leu Asp Val
 210 215 220
 Val Pro Gly Asp Leu Asn Arg Tyr Thr Leu Thr Gly Cys Leu Thr Gln
 225 230 235 240
 Arg Ala Asp Pro Leu Pro Leu Ala Phe Ala Ile Gln Asp Gly Ala Gly
 245 250 255
 Tyr Ala Gly Ala Ile Phe Lys Asp Glu Leu Lys Gln Ala Gly Ile Thr
 260 265 270
 Tyr Thr Gly Thr Leu Leu Arg Gln Thr Gln Val Asn Glu Pro Gly Thr
 275 280 285
 Val Ile Ala Ser Lys Gln Ser Ala Pro Leu His Asp Leu Leu Lys Ile
 290 295 300
 Met Leu Lys Lys Ser Asp Asn Met Ile Ala Asp Thr Val Phe Arg Met
 305 310 315 320
 Ile Gly His Ala Arg Phe Gly Val Pro Gly Thr Trp Arg Ala Gly Ser
 325 330 335
 Asp Ala Val Arg Gln Ile Leu Arg Gln Gln Ala Gly Ile Asp Leu Gly
 340 345 350
 Asn Thr Ile Ala Val Asp Gly Ser Gly Leu Ser Arg His Asn Leu Ile
 355 360 365
 Ser Pro Ala Thr Met Met Gln Val Leu Gln Tyr Ile Ala Gln His Asp

370	375	380
Ala Glu Leu Asn Phe Ile Thr Met Leu Pro Leu Ala Gly His Asp Gly		
385	390	395
Ser Leu Gln Tyr Arg Ala Gly Leu His Ala Ala Gly Val Asp Gly Lys		400
	405	410
Val Ser Ala Lys Thr Gly Ser Leu Gln Gly Val Tyr Asn Leu Ala Gly		415
	420	425
Phe Ile Thr Thr Ala Ser Gly Gln Arg Met Ala Phe Val Gln Tyr Leu		430
	435	440
Ser Gly Tyr Ala Val Glu Pro Ala Asp Gln Arg Asn Arg Arg Ile Pro		445
	450	455
Leu Val Arg Phe Glu Ser Arg Leu Tyr Lys Asp Ile Tyr Gln Asn Asn		460
465	470	475
		480

<210> 6381

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6381

Cys Met Val Ser Gly Trp Pro Ser Glu Glu Cys Leu Met Lys Tyr Ser		
1	5	10
Leu Ile Tyr Ala Asp Pro Ala Trp Leu Tyr Asp Asn Lys Ala Ser Asn		15
	20	25
Gly Ala Ala Glu Asp His Tyr Asp Thr Met Lys Leu Ile Asp Met Lys		30
	35	40
Arg Leu Pro Val Trp Asp Leu Ala Ala Asp Asp Ala Val Leu Ala Met		45
	50	55
Trp Phe Thr Gly Thr His Thr Arg Glu Ala Ile Glu Leu Ala Glu Ala		60
	65	70
Trp Gly Phe Lys Val Arg Thr Met Lys Gly Phe Thr Trp Val Lys Phe		75
	85	90
Asn Pro Leu Ala Glu Lys His Ile Asn Lys Ala Leu Gln Ala Gly Arg		95
	100	105
Val Glu Asp Phe Tyr Asp Phe Leu Asp Leu Leu Asn Ala Gln Thr Arg		110
	115	120
Met Asn Gly Gly Asn Tyr Thr Arg Ala Asn Thr Glu Asp Leu Leu Ile		125
	130	135
Ala Thr Arg Gly Asn Gly Leu Glu Arg Lys Cys Ala Ser Ile Lys Gln		140
	145	150
Val Ile Tyr Ser Pro Leu Gly Glu His Ser Arg Lys Pro Ala Glu Ala		155
	165	170
Arg Phe Arg Leu Glu Lys Leu Tyr Gly Asp Val Pro Arg Ile Glu Leu		175
	180	185
Phe Ser Arg Cys Gly Ala Pro Gly Trp Asp His Trp Gly Asn Gln Ser		190
	195	200
Glu Leu Pro Ala Val Glu Leu Ile Pro Ala Val Ala Val Pro Met Lys		205
	210	215
Lys Gln Gln Glu Arg Ala Ala		220
225	230	

<210> 6382

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6382

Ser Glu Trp Arg Lys Gly Arg Asp Ile Asp Asn Gln Ala Ser Thr Ser		
1	5	10
		15

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Asn Gly Gly Asn Gly Val Arg Ala Ile Leu Thr Pro Glu Ile Ala Pro
      20      25      30
Met Ser Gly Val Val Leu Phe Arg Pro Gly Asn Glu Leu Leu Trp Leu
      35      40      45
Phe Arg Gln Gly Arg Val Val Ile Glu Gln Pro Ser Glu Ala Ile Gln
      50      55      60
His Leu Pro Ser Gly Leu Ile Pro Glu Ala His Gln Pro Leu Thr Asp
      65      70      75      80
Asp Ala Asn Met Lys Ala Ile Phe Val Asn Glu Arg Val Ile Gln Arg
      85      90      95
Ala Gly Gly Leu Ser Ser Leu Asp Ala Trp Leu Glu Arg Lys Phe Glu
      100      105      110
Cys Gln Trp Pro His Thr Asp Trp His Ala Thr Asp Phe Thr Val Met
      115      120      125
Arg His Ala Pro Gly Ser Ile Arg Leu Cys Trp Ser Cys Asp Asn His
      130      135      140
Leu Arg Glu Gln Thr Thr Glu Arg Leu Ala Gly Ile Ala Met Gln Asn
      145      150      155      160
Leu Val Lys Trp Leu Leu Glu Arg Val Asn Ile Asp Leu Gly Phe Ser
      165      170      175
Pro Glu His Thr Leu Ser Leu Pro Glu Phe Cys Trp Trp Met Val Arg
      180      185      190
Asn Asp Leu Ala Asp Leu Val Pro Glu Ser Val Ala Ser Lys Ala Leu
      195      200      205
Arg Ile Lys Pro Glu Gln His Ser Ser Val Met Arg Glu Ser Asp Ile
      210      215      220
Val Pro Ser Leu Pro Ala Thr Gln Ile Phe Gln Glu Lys Ala Lys Lys
      225      230      235      240
Ile Val Ala Val Lys Val Asp Pro Glu Thr Pro Asp Leu Ser Cys
      245      250      255

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<210> 6383

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 6383

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Arg Cys Ser Asn Thr Val Thr Gln Gln Ser Ala Phe Arg Asn Tyr Gln
      1      5      10      15
Arg Lys Asn Asn Met Val Glu Pro Ser Leu Lys Glu Val Val Lys Ala
      20      25      30
Met Cys Lys Ala Tyr Pro Gly Gly Arg Glu Ala Met Ala Gly Ala Leu
      35      40      45
Gly Met Ser Val Thr Gln Phe Asn Asn Asn Leu Tyr Glu Lys Asn Gly
      50      55      60
Cys Arg Phe Phe Glu Val Asn Glu Leu Glu Ala Met Glu Asp Ile Ser
      65      70      75      80
Asn Thr Ser Leu Leu Ala Asp Tyr Phe Ala Arg Arg Arg Gly Ala Leu
      85      90      95
Leu Val Asp Val Pro Gln Leu Glu Asp Leu Asp Arg Val Asp Leu Phe
      100      105      110
Asp Arg Ala Met Arg Thr Ser Ala Ala Arg Gly Arg Val Asp Thr Val
      115      120      125
Ile Gln Arg Ala Leu Glu Asp Gly Val Ile Glu Arg His Glu Ala Glu
      130      135      140
Glu Ile Asn Glu Tyr His Arg Arg His Leu Ala Ala Arg Glu Glu Glu
      145      150      155      160
Ile Arg Ala Ile Val Ala Leu Phe Ser Arg Lys Lys Ser Gln Lys Lys
      165      170      175

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<210> 6384
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 6384
 Gly Trp Asn Leu Gln Ile Gln Leu Gln Glu His Arg Val Gln Gln Ser
 1 5 10 15
 Pro Gly Gly Leu Gln Arg Ser Glu Leu Met Ser Leu Leu Lys Asp Ile
 20 25 30
 Gln Ile Phe Ile Ala Ala Asn Pro Gly Leu Thr Asn Lys Glu Ile Ala
 35 40 45
 Ala Ser Met Pro Gln Tyr Asp Val His Ala Val Gln Arg Gly Val Cys
 50 55 60
 His Leu Val Lys Leu Asn Arg Ala Thr Arg Gln His Asn Gly Lys Cys
 65 70 75 80
 Tyr Gln Tyr Phe Ala Lys Ala Pro Gly Gly Glu Val Gly Glu Gly Arg
 85 90 95
 Ser Ala Leu Lys Ile Asn Arg Ala Asp Lys Pro Ala Val Pro Glu Gln
 100 105 110
 Glu Glu Gly Leu Asn Pro Ala Val Thr Thr Met Met Asp Lys Ala Gln
 115 120 125
 Gly Leu Phe Glu Lys Gly Leu Tyr Gln Arg Ala Ala Thr Ile Leu Met
 130 135 140
 Asp Ala Phe Asn Arg Ser Lys Asn Glu Glu Gln Arg Met Lys Ile Leu
 145 150 155 160
 Ile Glu Arg Gln Arg Cys Leu Ser Met Ala Pro Lys Val Lys Ala Pro
 165 170 175
 Ser Asp Ala Trp Cys Leu Ala Gly Arg Ala Arg Asn Val
 180 185 190

<210> 6385
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 6385
 Met Ala Glu Lys Thr Gly Ser Asp Val Met Lys Leu Val Leu Pro Phe
 1 5 10 15
 Pro Pro Ser Val Asn Thr Tyr Trp Arg Ala Pro Asn Lys Gly Pro Leu
 20 25 30
 Lys Gly Arg His Leu Ile Ser Ala Lys Gly Arg Ala Tyr Gln Ser Ala
 35 40 45
 Ala Cys Val Ala Ile Val Glu Gln Leu Arg Phe Leu Pro Lys Pro Ser
 50 55 60
 Thr Ala Pro Ala Ala Val Glu Ile Met Leu Tyr Pro Pro Asp Glu Arg
 65 70 75 80
 Arg Arg Asp Ile Asp Asn Tyr Asn Lys Ala Leu Phe Asp Ala Leu Thr
 85 90 95
 His Ala Gly Ile Trp Glu Asp Asp Ser Gln Val Gln Arg Met Leu Val
 100 105 110
 Glu Trp Gly Pro Lys Val Asn Gly Gly Arg Val Glu Ile Ser Ile Thr
 115 120 125
 Lys His Gln Pro Ala Met Gly Val Met Val
 130 135

<210> 6386
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 6386

Ser Glu Ile Arg Arg Pro Val Asn Ala Ala Val Ser Val Phe Arg Ser
 1 5 10 15
 Cys Ala Gly Asn Arg Arg Ile Ser Met Lys Ser Gly Asp Asn Met Arg
 20 25 30
 Asp Ile Gln Met Val Leu Val Arg Trp Gly Asn Trp Ser Lys Tyr Lys
 35 40 45
 Ile Glu Ala Asp Val Gly Tyr Ser Pro Ile Ala Ala Gly Phe Lys Gly
 50 55 60
 Leu Leu Pro Glu Ser Gly Ala Met Pro Lys Cys Thr Glu Asp Asp Ala
 65 70 75 80
 Leu Ile Ile Asp Ser Cys Leu Ala Arg Leu Lys Leu Lys Arg Pro Asp
 85 90 95
 Glu Tyr Glu Leu Ile Phe Asp His Tyr Val Lys Gly Val Ser Lys Arg
 100 105 110
 Gly Ile Gly Arg Lys Leu Lys Leu Ser Glu Gly Met Val Arg Ile Lys
 115 120 125
 Phe Gln Met Ala Glu Gly Phe Val Glu Gly Cys Leu Ala Met Leu Asp
 130 135 140
 Ile Arg Leu Gln Met Asp Glu
 145 150

<210> 6387

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 6387

Arg Thr Thr Met Ser Leu Leu Met Pro Ser Arg Pro Ile Val Ile Asn
 1 5 10 15
 Pro Asp Leu Ala Tyr Ser Ile Gly Leu Asn Glu Ala Ile Ala Leu Gln
 20 25 30
 Gln Val Asn Tyr Trp Leu Lys Glu Thr Thr Ser Gly Leu Glu Arg Asp
 35 40 45
 Gly Val Arg Trp Ile Tyr Asn Thr Thr Glu Gln Trp Leu Glu Gln Phe
 50 55 60
 Pro Phe Trp Ser Glu Ser Thr Leu Lys Arg Thr Phe Thr Arg Leu Lys
 65 70 75 80
 Asn Leu Gly Val Leu Lys Val Asp Gln Leu Asn Lys Ser Gln Arg Asp
 85 90 95
 Met Thr Asn Tyr Tyr Thr Ile Asn Tyr Glu Ser Glu Leu Leu Asp Glu
 100 105 110
 Val Lys Val Thr Lys Ser Lys Ser Ser Lys Cys Thr Leu Pro Ser Gly
 115 120 125
 Gln Asn Glu Pro Met Glu Glu Val Lys Val Glu Arg Ser Ile Gly Ser
 130 135 140
 Lys Arg Thr Ala Leu Ile Arg Ser Asn Cys Thr Asp Val Leu Thr Glu
 145 150 155 160
 Asn Thr Thr Glu Asn Thr Thr Asp Ile Lys Lys Pro Ile Cys Pro Val
 165 170 175
 Ala Pro Gln Pro Asp Ser Asp Val Leu Ile Thr Asp Gln Ala Lys Gln
 180 185 190
 Val Leu Thr His Leu Asn His Val Thr Ser Ser Arg Tyr Gln Val Ser
 195 200 205
 Thr Thr Ser Leu Gln Asn Ile Arg Ala Arg Ile Gly Glu Gly Phe Thr
 210 215 220
 Val Glu Glu Leu Ser Leu Val Val Asp Tyr Cys Asn Ala Lys Trp Ser
 225 230 235 240
 Asp Asp Leu Thr Met Ala Ser Tyr Leu Arg Pro Gln Thr Leu Phe Gln
 245 250 255

Pro Thr Lys Phe Pro Ala Tyr Leu Lys Ser Ala Thr Asn Trp Ala Asn
 260 265 270
 Ala Gly Arg Pro Ala Arg Val Asn Gly Lys Trp Glu Arg Glu Asp Gly
 275 280 285
 Ile Phe Lys Ser Ser Phe Lys Asn Thr Glu Tyr Ser Lys Val Pro Ala
 290 295 300
 Gly Phe Arg Gly Ala Asn Ser
 305 310

<210> 6388

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6388

Ala Tyr Thr Gly Ser Cys Arg Ser His Glu Lys Thr Ala Gly Ala Arg
 1 5 10 15
 Arg Met Lys Pro Glu Leu Thr Pro Arg Gln Asn Glu Val Phe Glu Ala
 20 25 30
 Ile Lys Val His Ile Glu Lys Ala Gly Phe Pro Pro Thr Met Leu Glu
 35 40 45
 Leu Ala Gly Leu Ile Gly Cys Ala Ser Pro Asn Ala Val Ala His
 50 55 60
 Val Lys Ser Leu Lys Lys Lys Gly Tyr Ile Thr Val Ala Pro Gly Ala
 65 70 75 80
 Ala Arg Gly Ile Thr Val Val Lys Thr Glu Trp Asp Ala Asp Pro Val
 85 90 95
 Thr Ile Ile Lys Gly Leu Leu Ser Gly Gly Asp Lys Ala Arg Asp Asn
 100 105 110
 Ala Val Glu Trp Leu Lys Lys Gln Gly Val Thr Leu
 115 120 125

<210> 6389

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6389

Cys Asn Asn Pro Ala Asp Asp Pro His His Leu Ile Gly His Gly Gln
 1 5 10 15
 Gly Gly Met Gly Thr Lys Ala His Asp Leu Phe Val Ile Pro Leu Cys
 20 25 30
 Arg Ala His His Asp Glu Leu His Ala Asp Pro Val Ala Phe Glu Ala
 35 40 45
 Lys Tyr Gly Asp Gln Leu Thr Leu Leu Phe Arg Phe Leu Asp Arg Ala
 50 55 60
 Leu Ala Ile Gly Val Leu Ala
 65 70

<210> 6390

<211> 482

<212> PRT

<213> Enterobacter cloacae

<400> 6390

Ile Thr Pro Gln Thr Gln Asn Phe Asp Phe Phe Leu Leu Leu Asn Ile
 1 5 10 15
 Ser Ile Ala Ala Ile Val Ala Ala Asn Ala Thr His Leu Thr Pro Val
 20 25 30
 Ile Ser Thr Phe Thr Arg Phe Phe Phe Ala Ser Trp Gly Val Leu Asn
 35 40 45

Leu Gly Ile Ile Trp Arg Leu Asp Glu Leu Met Phe Ile Val Leu Met
 50 55 60
 Leu Asn Leu Leu Tyr Gly Phe Ala Ile Tyr Arg His Ala Leu Thr Ser
 65 70 75 80
 His Ala Phe Phe Ile Gln Gln Ala Leu Leu Glu Glu Lys Ser Ser Arg
 85 90 95
 Leu Ala Glu Gln Phe Arg Gln Ala Lys Glu Asp Ala Glu Gln Ala Leu
 100 105 110
 Leu Asp Lys Asn Gln Phe Leu Thr Thr Ala Ser His Asp Leu Arg Gln
 115 120 125
 Pro Val His Ala Met Gly Phe Leu Ile Glu Ala Ile Leu His Arg Asn
 130 135 140
 Arg Asp Gly Ser Leu Thr Pro Gln Leu Leu Asp Leu Gln Gln Ser Val
 145 150 155 160
 Arg Ser Val His Leu Met Leu Asn Ser Leu Leu Asp Leu Ser Lys Ile
 165 170 175
 Glu Ser Gly Asn Val Leu Ser Ala Pro Thr Lys Val Asp Ile Gly Ala
 180 185 190
 Leu Leu Asp Ser Val Ile Thr Leu Phe Arg Glu Glu Ala Asn Ser Arg
 195 200 205
 Ala Leu Arg Leu Cys Ile Arg Arg Pro Lys Arg His Ile Tyr Val Met
 210 215 220
 Gly Asp Pro Leu Leu Val Arg Gln Ser Leu Ile Asn Leu Ile Gln Asn
 225 230 235 240
 Ala Leu Arg Tyr Thr Leu Gln Gly Gly Val Leu Val Ala Ile Arg Pro
 245 250 255
 Arg Gly Asp Glu Cys Met Val Glu Val Trp Asp Thr Gly Val Gly Ile
 260 265 270
 Ala Asp Glu Glu Lys Gly Lys Ile Phe Ser Pro Tyr Tyr Arg Pro Glu
 275 280 285
 Leu Ala Trp Lys Ile Asp Ser Ala Gly His Gly Leu Gly Leu Ala Val
 290 295 300
 Val Ala Arg Cys Ala Lys Leu Met Lys Val Lys Tyr Gly Met Gln Ser
 305 310 315 320
 Ile Glu Gly Lys Gly Ser Arg Phe Trp Met Arg Phe Thr Gln Tyr Ala
 325 330 335
 Gly Glu Asp Ser Val Leu Asp Thr Pro Pro Ala Ala Asp Asn Thr Ala
 340 345 350
 Thr Pro Val Arg Tyr Ala Pro Leu His Gly Ser Cys Leu Val Val Asp
 355 360 365
 Asp Asp Pro Leu Val Thr Ser Ala Trp Glu Ser Leu Met Ser Val Trp
 370 375 380
 Gly Ile Asp Val Arg Cys Ala Ala Ser Ala Glu Glu Ala Phe Ala Ile
 385 390 395 400
 Ile Asp Asp Gly Phe Thr Pro Phe Ala Val Leu Cys Asp Gln Arg Leu
 405 410 415
 Arg Ser Gly Glu Ser Gly Phe Asp Ile Leu Lys Ala Leu Phe Gly Arg
 420 425 430
 Leu Pro Asp Met Ser Gly Ala Ile Val Ser Gly Glu Phe Asn Ser Pro
 435 440 445
 Val Leu Leu Glu Ala Glu Gln Glu Gly Tyr Leu Val Leu Arg Lys Pro
 450 455 460
 Leu Glu Pro Ala Lys Leu His Ala Leu Leu Thr Gln Trp Leu Gly Cys
 465 470 475 480
 Arg

<210> 6391

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 6391

Pro Gly Arg Cys Val Met Ser Glu Met Met Met Pro Cys Ser Tyr Glu
 1 5 10 15
 Ala Glu Gln Ala Val Leu Gly Gly Leu Met Leu Asp Asn Asp Arg Trp
 20 25 30
 Asp Glu Val Ile Leu Gln Ile Ser Pro Glu Asp Leu Phe Ser Arg Pro
 35 40 45
 His Arg Met Val Phe Arg Val Met Ala Glu Leu Ala Gly Glu Gly Leu
 50 55 60
 Pro Leu Asp Leu Ile Thr Ile Thr Glu Arg Leu Glu Asn Arg Gly Asp
 65 70 75 80
 Leu Glu Gln Cys Gly Gly Phe Ala Tyr Leu Ala Glu Met Ser Lys Asn
 85 90 95
 Thr Pro Ser Ala Ala Asn Ile Leu Ala Tyr Ala Gly Val Val Ala Glu
 100 105 110
 Lys Ser Arg Leu Arg Gln Leu Met Thr Val Gly Asn Ser Leu Leu Ser
 115 120 125
 Asp Val Gln Ala Pro Lys Ala Ser Ser Ala Gly Ile Leu Glu Ser Ala
 130 135 140
 Glu Gly Lys Leu Phe Asn Ile Ala Glu Gln Gly Ala Met Gln Leu Asn
 145 150 155 160
 Ser Glu Thr Gly Val Asn Glu Ala Leu Asp Lys Leu Leu Thr Gln Leu
 165 170 175
 Glu Ser Met Ser Ala Ser Asp Gly Leu Thr Gly Thr Pro Thr Gly Phe
 180 185 190
 Ser Glu Leu Asp Ala Met Thr Cys Gly Leu Glu Pro Gly Asp Leu Ala
 195 200 205
 Leu Leu Ala Ala Arg Pro Ser Met Gly Lys Thr Ser Leu Ala Met Ala
 210 215 220
 Ala Cys Thr Ala Ala Val Ser Ala Lys Pro Asp Asp His Val Phe Val
 225 230 235 240
 Phe Ser Leu Glu Met Pro Ser Glu Gln Leu Met Met Arg Leu Leu Ala
 245 250 255
 Met Glu Gly Arg Val Glu Leu Ser Arg Leu Arg Ser Gly Asn Met Asp
 260 265 270
 Asp Glu Asp Trp Ala Arg Val Ser Glu Ala Thr Gly Arg Ile Ile Glu
 275 280 285
 Trp Lys Asn Arg Leu Ile Ile Asp Asp Thr Ser Tyr Gln Thr Pro Ala
 290 295 300
 Thr Leu Arg Ala Arg Ala Arg Arg Tyr Val Arg Lys Tyr Gly Arg Pro
 305 310 315 320
 Ser Leu Ile Met Leu Asp Tyr Leu Gln Leu Val Arg Ser Pro Glu Gln
 325 330 335
 Glu Asn Arg Thr Gln Glu Ile Ala Glu Ile Ser Arg Ser Leu Lys Ala
 340 345 350
 Leu Gly Lys Glu Leu Gly Cys Pro Val Leu Ala Leu Ser Gln Leu Asn
 355 360 365
 Arg Leu Val Glu Gln Arg Ala Asp Lys Arg Pro Asn Asn Gly Asp Leu
 370 375 380
 Arg Asp Ser Gly Ala Leu Glu Gln Asp Ala Asp Leu Ile Met Phe Ile
 385 390 395 400
 Tyr Arg Asp Glu Val Tyr Asn Pro Gly Thr Pro Asp Ala Gly Val Ala
 405 410 415
 Glu Ile Ile Val Gly Lys Gln Arg Gln Gly Pro Thr Gly Thr Val Lys
 420 425 430
 Val Lys Phe Asp Gly Arg Tyr Thr Leu Phe Ser Glu Phe Gln Glu Gly
 435 440 445
 Ser Tyr Asp Phe Gly Tyr Arg Ser Gly Arg Lys Gln Ala
 450 455 460

<210> 6392

<211> 296

<212> PRT

<213> *Enterobacter cloacae*

<400> 6392

Arg Val Cys Lys Met Lys Ile Leu Pro Val Ile Ser Pro Lys Gly Gly
 1 5 10 15
 Glu Gly Lys Ser Thr Phe Ala Ala Tyr Leu Ala Gly Phe Leu Ala Asp
 20 25 30
 Ala Gly Leu Asn Thr Leu Leu Val Asp Ala Asp Tyr Ser Gln Pro Thr
 35 40 45
 Ala Ser Ser Ile Phe Ala Leu Glu Asp Glu Ser Pro Phe Gly Leu Tyr
 50 55 60
 Glu Leu Leu Met Gln Met Val Ser Asp His Thr Gln Cys Ile Ser Gln
 65 70 75 80
 Thr Ala Ile Lys Asn Leu Asp Val Ile Tyr Ser Asn Asp Pro Asp Glu
 85 90 95
 Leu Leu Pro Thr Ala Met Leu His Ala Ala Asp Gly Arg Leu Arg Leu
 100 105 110
 Arg Asn Ile Leu Gln His Pro Phe Phe Asn Arg Tyr Asp Ala Ile Ile
 115 120 125
 Val Asp Ser Lys Gly Ala Thr Gly Val Met Thr Glu Leu Ser Leu Leu
 130 135 140
 Ser Ser Thr Gly Asn Val Met Gly Ile Val Lys Pro Ile Leu Pro Asp
 145 150 155 160
 Val Arg Glu Phe Ile Arg Gly Ser Leu His Met Leu Thr Arg Leu Lys
 165 170 175
 Thr Tyr Glu Asn Tyr Gly Ile Arg Leu Pro Asp Ile Ser Ile Leu Val
 180 185 190
 Asn Cys Ile Glu Asn Thr Leu Leu Asp Arg Glu Ala Met Asp Gly Leu
 195 200 205
 Ala Ala Ile Ile Asn Glu Lys His Tyr Asp Ala Ser Ala Leu Gly Asn
 210 215 220
 Arg Asp Val Tyr Arg Leu Leu Asp Thr Arg Ile Glu Ala Leu Asp Ile
 225 230 235 240
 Phe Lys Leu Gly His Val Lys Gln Gln Pro Val His Arg Leu Glu Tyr
 245 250 255
 Lys Thr Arg Arg Lys Gly Pro Ala Ala Ala Val Thr Met His Asp Leu
 260 265 270
 Ala Cys Glu Leu Phe Pro Glu Trp Gln Ser His Phe Ser Asp Val Leu
 275 280 285
 Thr Arg Glu Val Arg His Val
 290 295

<210> 6393

<211> 575

<212> PRT

<213> *Enterobacter cloacae*

<400> 6393

Leu Arg Leu Pro Gln Arg Glu Glu Thr Gly Met Ser Arg Lys Ser Ser
 1 5 10 15
 Asn Val Gly Ala Ala Met Leu Gln Pro Gly Arg Gln Ser Gln Ala Ala
 20 25 30
 Gly Asn Ile Ser Val Met Pro Ala Ala Glu Met Pro Met Val Leu Thr
 35 40 45
 Leu Asp Gln Leu Ser Pro Asn Pro Asp Asn Pro Arg Thr Ser Arg Asn
 50 55 60
 Pro Arg Tyr Asp Asp Ile Lys Ala Ser Ile Arg Ser Arg Gly Leu Asp
 65 70 75 80

Thr Val Pro Lys Val Thr Arg Asp Pro Asp Gly Glu Pro Asp Met Tyr
 85 90
 Ile Phe Ser Asp Gly Gly Asn Thr Arg Tyr Gln Ile Leu Ser Glu Leu
 100 105
 Trp Gln Glu Thr Gly Glu Asp Arg Phe Arg Val His Val Leu Phe
 115 120 125
 Lys Pro Trp Pro Gly Arg Leu Gln Cys Val Ile Gly His Leu Ala Glu
 130 135 140
 Asn Glu Val Arg Gly Glu Leu Ser Phe Ile Glu Lys Ala Gln Gly Ile
 145 150 155 160
 His Lys Ala Arg Ser Ile Tyr Glu Glu Met Gly Lys Thr Val Ser
 165 170 175
 Leu Arg Gln Leu Ser Glu Leu Leu Thr His Glu Gly Leu Pro Val His
 180 185 190
 Tyr Ser Thr Val Ser Arg Met Glu Asp Ala Leu Lys Tyr Leu Tyr Pro
 195 200 205
 Trp Ile Pro Asp Leu Leu Glu Ser Gly Leu Gly Arg Pro Gln Ile Thr
 210 215 220
 Ala Leu Leu Ala Leu Arg His Asp Ala Glu Arg Val Trp Asp Glu Phe
 225 230 235 240
 Cys Leu Ile Ser Asp Thr Gly Asp Lys Ser Phe Ser Asp Val Phe Gly
 245 250 255
 Gln Cys Cys Gly Arg Phe Asn Ser Pro Glu Leu Trp Ser Leu Glu Met
 260 265 270
 Phe Arg Asp Glu Leu Ile Gly Asp Leu Leu His Ala Leu Pro His Pro
 275 280 285
 Glu Leu Asp Tyr Asp Arg Trp Met Met Glu Leu Asp Pro Lys Glu Arg
 290 295 300
 Asn Arg Arg His His Phe Gly Asp Pro Glu Pro Val Ser Ile Pro Pro
 305 310 315 320
 Ala Asn Ser Leu Val Thr Ala Asp Ser Ala Gly Gln Ala Thr Pro Ala
 325 330 335
 Gln Lys Ser Val Glu Val Val Gln Pro Phe Ser Ser Pro Arg Arg Glu
 340 345 350
 Ile Ser Gly Glu Pro Val Thr Pro Ala Pro Asp Asn Thr Pro Pro Glu
 355 360 365
 Lys Leu Asp Lys Gln His Pro Arg His Glu Val Gln Pro Asp Met Tyr
 370 375 380
 Gly Ala Ala Pro Val Ile Ser Gly Glu Ser Ala Asp Val Ser Gly Leu
 385 390 395 400
 Val Thr Leu Ser Asp Gly Tyr Gly Glu Glu Asn Gly Gly Glu Glu Gly
 405 410 415
 Asn Gly Glu Asp Gly Leu Leu Ser Leu Leu Thr Pro Glu Pro Glu Val
 420 425 430
 Val Leu Gln Asp Asp Ala Pro Val Thr Asn Asp Ser Ile Trp His Val
 435 440 445
 Pro Ala His Gln Asp Asp Ile Glu His Leu Gln Asn Thr Ala Phe Arg
 450 455 460
 Leu Ala Trp Glu Leu Gly Glu Val Leu Gly Cys Glu Asp Glu Ile Leu
 465 470 475 480
 Pro Gln Arg Asp Asn Asp Met Ser Ala Gly Tyr Val Gly Ala Gly Glu
 485 490 495
 Met Cys Ser Glu Ala Ala Ala Phe Leu Leu Gly Leu Thr Gly Glu Ala
 500 505 510
 Pro Ala Leu His Pro Ala Ala Gly Val Cys Gly Leu Pro Glu Leu Phe
 515 520 525
 Thr Gly Gly Pro Gly Glu Gly Glu Ala Pro Ala Leu Thr Asp Glu Asp
 530 535 540
 Ala Leu Lys Leu Leu Arg Leu Leu Arg Val Met Arg Arg Leu Arg Glu
 545 550 555 560
 Leu Gln Arg Gly Leu Thr Tyr Gly Glu Asp Asn Ser Asp Glu

<210> 6394
 <211> 268
 <212> PRT
 <213> Enterobacter cloacae

<400> 6394

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Gln His Asp Ser Leu Phe Thr Leu Pro Pro Tyr Ala Gly Ala Val Leu
1          5          10          15
Ser Ile Leu Thr Val Gln Asn Gly Arg Asp Gly Gly Arg Lys Gly Lys
20          25          30
Ile Met Ser Leu Pro Ala Glu Ser Leu Ile Ala Tyr Thr Leu Asp Lys
35          40          45
Met Asn Ala Arg Leu Ala Ala Ser Pro Arg Arg Asp Asp Gly Arg Ile
50          55          60
Arg Asn Gly Leu Leu Phe Thr Gly Asn Val His Asp Ser Ile Pro Arg
65          70          75          80
Arg Leu Leu Leu Asp Thr Arg Leu Ser Pro Leu Asp Lys Met Gly Trp
85          90          95
Met Met Ile Arg Leu Tyr Ala Gln Asn Asn Glu Gly Ala Val Phe Pro
100          105          110
Ser Tyr Asp Glu Leu Gln Leu Gln Leu Ala Ser Pro Gly Lys Gly Lys
115          120          125
Ala Ser Arg Glu Thr Val Ser Arg Val Leu Leu Met Leu Arg Ile Thr
130          135          140
Gly Trp Leu Ser Leu Cys Lys Arg Val Arg Asp Asp Lys Gly Arg Val
145          150          155          160
Arg Gly Asn Ile Tyr Ala Gln His Asp Glu Pro Leu Thr Phe Ser Asp
165          170          175
Ala Glu Met Leu Asp Pro Arg Phe Leu Asp Val Val Ala Asp Ala Cys
180          185          190
Leu Ser Lys Asn Arg Thr Ile Ser Gln Asn Ala Arg Glu Val Leu Asp
195          200          205
Asp Ile Lys Asn Asp Pro Thr Met Arg His Tyr Arg Ser His Leu Ala
210          215          220
Leu Ile Glu Ser Arg Leu Asp Ser Pro Gln Ser Pro Ser Gln Met Ala
225          230          235          240
Lys His His His Arg Ile Pro Cys Pro Ala Pro Gly Ser Glu Thr Ala
245          250          255
Arg Leu His Tyr Glu Met Arg Ile Arg Thr Asp Cys
260          265

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<210> 6395
 <211> 285
 <212> PRT
 <213> Enterobacter cloacae

<400> 6395

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Thr Gly Ser Arg Gly Leu Pro Gly Glu Lys Trp Val Trp Leu Tyr Leu
1          5          10          15
Trp Arg Arg Leu Pro Arg Val Arg Gln Gln Ile Gln Pro Val Gln Gln
20          25          30
Pro Pro His Arg Arg Asp Gly Cys Asp Gln Gln Asn Gly Ala Ala Pro
35          40          45
Met Ile Glu Leu Val Ile Val Ser Arg Leu Leu Glu Tyr Pro Asp Ala
50          55          60
Ala Leu Val Gln His Gln Gln Glu Leu Phe Asp Ala Leu Ala Ser Ser
65          70          75          80
Glu Asn Leu Asp Lys Glu Asp Ala Gln Lys Leu Gly Val Phe Leu Arg
85          90          95

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Asp Leu Leu Ala Arg Asp Leu Leu Asp Ala Gln Ala Asp Tyr Ser Gln
 100 105 110
 Leu Phe Asp Arg Gly Arg Ala Thr Ser Leu Leu Leu Phe Glu His Val
 115 120 125
 His Gly Glu Ser Arg Asp Arg Gly Gln Ala Met Val Asp Leu Met Ala
 130 135 140
 Gln Tyr Glu Gln His Gly Leu Gln Leu Asp Ser Arg Glu Leu Pro Asp
 145 150 155 160
 His Leu Pro Leu Tyr Leu Glu Tyr Leu Ala Gln Leu Pro Lys Glu Glu
 165 170 175
 Ala Leu Gly Gly Leu Gln Asp Ile Ala Pro Ile Leu Ala Leu Leu Gly
 180 185 190
 Ala Arg Leu Gln Gln Arg Glu Ser Ser Tyr Ala Val Leu Phe Asp Leu
 195 200 205
 Leu Val Lys Leu Ala Asn Ala Ser Val Asp Ser Gln Lys Val Ala Glu
 210 215 220
 Lys Ile Ala Asp Glu Ala Arg Asp Asp Thr Pro Gln Ala Leu Asp Ala
 225 230 235 240
 Val Trp Glu Glu Glu Gln Val Lys Phe Phe Ala Asp Gln Ser Cys Gly
 245 250 255
 Glu Ser Glu Ile Ser Ala His Gln Arg Arg Phe Ala Gly Ala Val Ala
 260 265 270
 Pro Gln Tyr Leu Asn Ile Ser Asn Gly Gly Gln His
 275 280 285

<210> 6396

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 6396

Pro Gly Thr Gly Glu Arg Lys Met Lys Ile Arg Ser Gln Val Gly Met
 1 5 10 15
 Val Leu Asn Leu Asp Lys Cys Ile Gly Cys His Thr Cys Ser Val Thr
 20 25 30
 Cys Lys Asn Val Trp Thr Ser Arg Glu Gly Met Glu Tyr Ala Trp Phe
 35 40 45
 Asn Asn Val Glu Ser Lys Pro Gly Thr Gly Phe Pro Thr Asp Trp Glu
 50 55 60
 Asn Gln Glu Lys Trp Lys Gly Gly Trp Ile Arg Lys Ile Asn Gly Lys
 65 70 75 80
 Leu Gln Pro Arg Met Gly Asn Arg Ala Met Leu Leu Gly Lys Ile Phe
 85 90 95
 Ala Asn Pro His Leu Pro Gly Ile Asp Asp Tyr Tyr Glu Pro Phe Asp
 100 105 110
 Tyr Asp Tyr Gln Asn Leu His Asn Ala Pro Glu Ser Lys His Gln Pro
 115 120 125
 Ile Ala Arg Pro Arg Ser Leu Ile Thr Gly Gln Arg Met Asp Lys Ile
 130 135 140
 Thr Ser Gly Pro Asn Trp Glu Glu Ile Leu Gly Gly Glu Phe Glu Lys
 145 150 155 160
 Arg Ala Lys Asp Gln Asn Phe Glu Asn Met Gln Lys Ala Met Tyr Gly
 165 170 175
 Gln Phe Glu Asn Thr Phe Met Met Tyr Leu Pro Arg Leu Cys Glu His
 180 185 190
 Cys Leu Asn Pro Ala Cys Val Ala Thr Cys Pro Ser Gly Ala Ile Tyr
 195 200 205
 Lys Arg Glu Glu Asp Gly Ile Val Leu Ile Asp Gln Asp Lys Cys Arg
 210 215 220
 Gly Trp Arg Met Cys Ile Thr Gly Cys Pro Tyr Lys Lys Ile Tyr Phe
 225 230 235 240

Asn Trp Lys Ser Gly Lys Ser Glu Lys Cys Ile Phe Cys Tyr Pro Arg
 245 250 255
 Ile Glu Ala Gly Met Pro Thr Val Cys Ser Glu Ser Cys Val Gly Arg
 260 265 270
 Ile Arg Tyr Leu Gly Val Leu Leu Tyr Asp Ala Asp Ala Ile Glu Asn
 275 280 285
 Ala Ala Ser Thr Glu Asn Glu Lys Asp Leu Tyr Gln Arg Gln Leu Asp
 290 295 300
 Val Phe Leu Asp Pro Asn Asp Pro Lys Val Ile Glu Gln Ala Leu Lys
 305 310 315 320
 Asp Gly Ile Pro Gln Ser Val Ile Asp Ala Gln Gln Ser Pro Val
 325 330 335
 Tyr Lys Met Ala Met Asp Trp Lys Leu Ala Leu Pro Leu His Pro Glu
 340 345 350
 Tyr Arg Thr Leu Pro Met Val Trp Tyr Val Pro Pro Leu Ser Pro Ile
 355 360 365
 Gln Ser Ala Ala Asp Ala Gly Glu Leu Gly Ser Asn Gly Ile Leu Pro
 370 375 380
 Asp Val Glu Ser Leu Arg Ile Pro Val Gln Tyr Leu Ala Asn Leu Leu
 385 390 395 400
 Thr Ala Gly Asp Thr Gln Pro Val Leu Leu Ala Leu Lys Arg Met Leu
 405 410 415
 Ala Met Arg His Phe Lys Arg Ala Glu Thr Val Asp Gly Val Asn Asp
 420 425 430
 Thr Arg Ala Leu Glu Glu Val Gly Leu Thr Glu Ala Gln Ala Gln Glu
 435 440 445
 Met Tyr Arg Tyr Leu Ala Ile Ala Asn Tyr Glu Asp Arg Phe Val Val
 450 455 460
 Pro Ser Ser His Arg Glu Leu Ala Arg Glu Ala Phe Pro Glu Lys Ser
 465 470 475 480
 Gly Cys Gly Phe Thr Phe Gly Asp Gly Cys His Gly Ser Asp Ser Lys
 485 490 495
 Phe Asn Leu Phe Asn Ser Arg Arg Ile Asp Ala Met Asp Val Thr Ser
 500 505 510
 Lys Thr Glu Pro His Gln
 515

<210> 6397

<211> 1280

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (516)

<400> 6397

Ser Leu Ser Ile Leu Thr Ile Phe His Ser Val Thr Phe Ala Ala Asn
 1 5 10 15
 Gln Gln Cys Arg Phe Arg Glu Pro Gln Ala Pro His Arg Arg Tyr Pro
 20 25 30
 Met Ser Lys Phe Leu Asp Arg Phe Arg Tyr Phe Lys Gln Lys Gly Glu
 35 40 45
 Thr Phe Ala Asp Gly His Gly Gln Val Leu Asp Thr Asn Arg Asp Trp
 50 55 60
 Glu Asp Gly Tyr Arg Gln Arg Trp Gln His Asp Lys Val Val Arg Ser
 65 70 75 80
 Thr His Gly Val Asn Cys Thr Gly Ser Cys Ser Trp Lys Ile Phe Val
 85 90 95
 Lys Asn Gly Leu Val Thr Trp Glu Met Gln Gln Thr Asp Tyr Pro Arg
 100 105 110

Thr Arg Pro Asp Met Pro Asn His Glu Pro Arg Gly Cys Pro Arg Gly
 115 120 125
 Ala Ser Tyr Ser Trp Tyr Leu Tyr Ser Ala Asn Arg Leu Lys Tyr Pro
 130 135 140
 Leu Met Arg Lys Arg Leu Met Lys Met Trp Arg Glu Ala Lys Val Gln
 145 150 155 160
 His Ser Asp Pro Val Asp Ala Trp Ala Ser Ile Ile Glu Asp Ala Asp
 165 170 175
 Lys Ala Lys Ser Phe Lys Gln Ala Arg Gly Gly Phe Val Arg
 180 185 190
 Ser Ser Trp Lys Glu Val Asn Glu Leu Ile Ala Ala Ser Asn Val Tyr
 195 200 205
 Thr Val Lys Thr Tyr Gly Pro Asp Arg Val Ala Gly Phe Ser Pro Ile
 210 215 220
 Pro Ala Met Ser Met Val Ser Tyr Ala Ser Gly Ala Arg Tyr Leu Ser
 225 230 235 240
 Leu Ile Gly Gly Thr Cys Leu Ser Phe Tyr Asp Trp Tyr Cys Asp Leu
 245 250 255
 Pro Pro Ala Ser Pro Gln Thr Trp Gly Glu Gln Thr Asp Val Pro Glu
 260 265 270
 Ser Ala Asp Trp Tyr Asn Ser Ser Tyr Ile Ile Ala Trp Gly Ser Asn
 275 280 285
 Val Pro Gln Thr Arg Thr Pro Asp Ala His Phe Phe Thr Glu Val Arg
 290 295 300
 Tyr Lys Gly Thr Lys Thr Val Ala Val Thr Pro Asp Tyr Ala Glu Ile
 305 310 315 320
 Ala Lys Leu Cys Asp Leu Trp Leu Ala Pro Lys Gln Gly Thr Asp Ala
 325 330 335
 Ala Met Ala Leu Ala Met Gly His Val Met Leu Arg Glu Phe His Leu
 340 345 350
 Asp Lys Pro Ser Gln Tyr Phe Thr Asp Tyr Val Arg Arg Tyr Thr Asp
 355 360 365
 Met Pro Met Leu Val Met Leu Glu Glu Arg Asp Gly Tyr Tyr Ala Ala
 370 375 380
 Gly Arg Met Leu Arg Ala Ala Asp Leu Val Asp Ala Leu Gly Gln Glu
 385 390 395 400
 Asn Asn Pro Glu Trp Lys Thr Val Ala Cys Asn Ser Asn Gly Glu Leu
 405 410 415
 Val Ala Pro Asn Gly Ser Ile Gly Phe Arg Trp Gly Glu Lys Gly Lys
 420 425 430
 Trp Asn Leu Glu Gln Arg Asn Gly Thr Thr Gly Glu Glu Thr Glu Leu
 435 440 445
 Arg Leu Ser Met Leu Gly Ser Gln Asp Glu Ile Ala Asp Val Gly Phe
 450 455 460
 Pro Tyr Phe Gly Asn Glu Gly Ser Glu His Phe Asn Lys Val Glu Leu
 465 470 475 480
 Gln Asn Val Leu Met His Lys Leu Pro Val Lys Arg Leu Gln Leu Ala
 485 490 495
 Asp Gly Ser Thr Ala Leu Val Thr Thr Ala Tyr Asp Leu Thr Met Ala
 500 505 510
 Asn Tyr Gly Xaa Glu Arg Gly Leu Asn Asp Glu Asn Cys Ala Thr Ser
 515 520 525
 Tyr Asp Asp Val Lys Ala Tyr Thr Pro Ala Trp Ala Glu Gln Ile Thr
 530 535 540
 Gly Val Pro Arg Ala Gln Ile Thr Arg Ile Ala Arg Glu Phe Ala Glu
 545 550 555 560
 Asn Ala Asp Lys Thr His Gly Arg Ser Met Ile Ile Val Gly Ala Gly
 565 570 575
 Leu Asn His Trp Tyr His Leu Asp Met Asn Tyr Arg Gly Leu Ile Asn
 580 585 590
 Met Leu Ile Phe Cys Gly Cys Val Gly Gln Ser Gly Gly Gly Trp Ala

595					600					605					
His	Tyr	Val	Gly	Gln	Glu	Lys	Leu	Arg	Pro	Gln	Thr	Gly	Trp	Gln	Pro
610						615					620				
Leu	Ala	Phe	Ala	Leu	Asp	Trp	Gln	Arg	Pro	Ala	Arg	His	Met	Asn	Ser
625					630					635					640
Thr	Ser	Tyr	Phe	Tyr	Asn	His	Ser	Ser	Gln	Trp	Arg	Tyr	Glu	Thr	Val
				645						650				655	
Thr	Ala	Gln	Glu	Leu	Leu	Ser	Pro	Met	Ala	Asp	Lys	Ser	Arg	Tyr	Ser
				660				665				670			
Gly	His	Leu	Ile	Asp	Phe	Asn	Val	Arg	Ala	Glu	Arg	Met	Gly	Trp	Leu
		675					680					685			
Pro	Ser	Ala	Pro	Gln	Leu	Gly	Thr	Asn	Pro	Leu	Arg	Ile	Ala	Glu	Ala
		690				695					700				
Ala	Lys	Lys	Ala	Gly	Met	Ser	Pro	Val	Asp	Tyr	Thr	Val	Lys	Ser	Leu
705				710						715					720
Lys	Asp	Gly	Ser	Ile	Arg	Phe	Ala	Ala	Glu	Gln	Pro	Glu	Asn	Gly	Lys
				725					730				735		
Asn	His	Pro	Arg	Asn	Leu	Phe	Ile	Trp	Arg	Ser	Asn	Leu	Leu	Gly	Ser
				740				745				750			
Ser	Gly	Lys	Gly	His	Glu	Tyr	Met	Leu	Lys	Tyr	Leu	Leu	Gly	Thr	Glu
		755					760				765				
Asn	Gly	Ile	Gln	Gly	Lys	Asp	Leu	Gly	Lys	Gln	Gly	Gly	Val	Lys	Pro
		770				775					780				
Glu	Glu	Val	Glu	Trp	Lys	Asp	Asn	Gly	Leu	Asp	Gly	Lys	Leu	Asp	Leu
785				790						795					800
Val	Val	Thr	Leu	Asp	Phe	Arg	Leu	Ser	Ser	Thr	Cys	Leu	Tyr	Ser	Asp
				805						810				815	
Ile	Val	Leu	Pro	Thr	Ala	Thr	Trp	Tyr	Glu	Lys	Asp	Asp	Met	Asn	Thr
			820					825					830		
Ser	Asp	Met	His	Pro	Phe	Ile	His	Pro	Leu	Ser	Ala	Ala	Val	Asp	Pro
		835					840					845			
Ala	Trp	Glu	Ser	Lys	Ser	Asp	Trp	Glu	Ile	Tyr	Lys	Asp	Ile	Ala	Lys
		850				855					860				
Lys	Phe	Ser	Glu	Val	Cys	Val	Gly	His	Leu	Gly	Lys	Glu	Thr	Asp	Val
865				870						875				880	
Val	Thr	Leu	Pro	Ile	Gln	His	Asp	Ser	Ala	Ala	Glu	Leu	Ala	Gln	Pro
				885					890					895	
Leu	Asp	Val	Lys	Asp	Trp	Lys	Lys	Gly	Glu	Cys	Asp	Leu	Ile	Pro	Gly
			900					905					910		
Val	Thr	Ala	Pro	His	Ile	Ile	Pro	Val	Glu	Arg	Asp	Tyr	Pro	Ala	Thr
		915					920					925			
Tyr	Glu	Arg	Phe	Thr	Ser	Ile	Gly	Pro	Leu	Met	Glu	Lys	Ile	Gly	Asn
		930				935					940				
Gly	Gly	Lys	Gly	Ile	Ala	Trp	Asn	Thr	Gln	Ser	Glu	Met	Asp	Leu	Leu
945				950						955					960
Arg	Lys	Leu	Asn	Tyr	Thr	Lys	Ala	Asp	Gly	Pro	Ala	Lys	Gly	Gln	Pro
				965					970					975	
Met	Leu	Asn	Thr	Ala	Ile	Asp	Ala	Ala	Glu	Met	Ile	Leu	Thr	Leu	Ala
			980				985					990			
Pro	Glu	Thr	Asn	Gly	His	Val	Ala	Val	Lys	Ala	Trp	Ala	Ala	Leu	Ser
		995					1000					1005			
Glu	Phe	Thr	Gly	Arg	Asp	His	Thr	His	Leu	Ala	Lys	Asn	Lys	Glu	Glu
							1015					1020			
Glu	Lys	Ile	Arg	Phe	Arg	Asp	Ile	Gln	Ala	Gln	Pro	Arg	Lys	Ile	Ile
1025					1030					1035					1040
Ser	Ser	Ser	Pro	Thr	Trp	Ser	Gly	Leu	Glu	Asp	Glu	His	Val	Ser	Tyr
					1045					1050				1055	
Ala	Gly	Tyr	Thr	Asn	Val	His	Glu	Leu	Ile	Pro	Trp	Arg	Thr	Leu	Ser
				1060				1065						1070	
Gly	Arg	Gln	Ser	Leu	Tyr	Gln	Asp	His	Gln	Trp	Met	Arg	Asp	Phe	Gly
		1075					1080					1085			

Glu Ser Leu Leu Val Tyr Arg Pro Pro Ile Asp Thr Arg Ser Val Lys
 1090 1095 1100
 Ala Val Met Gly Ala Lys Ser Asn Gly Asn Pro Glu Lys Ala Leu Asn
 1105 1110 1115 1120
 Phe Leu Thr Pro His Gln Lys Trp Gly Ile His Ser Thr Tyr Ser Asp
 1125 1130 1135
 Asn Leu Leu Met Leu Thr Leu Ser Arg Gly Gly Pro Ile Val Trp Met
 1140 1145 1150
 Ser Glu Ala Asp Ala Lys Asp Leu Gly Ile Glu Asp Asn Asp Trp Ile
 1155 1160 1165
 Glu Val Phe Asn Ser Asn Gly Ala Leu Thr Ala Arg Ala Val Val Ser
 1170 1175 1180
 Gln Arg Val Pro Ala Gly Met Thr Met Met Tyr His Ala Gln Glu Arg
 1185 1190 1195 1200
 Ile Val Asn Leu Pro Gly Ser Glu Ile Thr Glu Gln Arg Gly Gly Ile
 1205 1210 1215
 His Asn Ser Val Thr Arg Ile Thr Pro Lys Pro Thr His Met Ile Gly
 1220 1225 1230
 Gly Tyr Ala Gln Leu Ala Tyr Gly Phe Asn Tyr Tyr Gly Thr Val Gly
 1235 1240 1245
 Ser Asn Arg Asp Glu Phe Val Val Val Arg Lys Met Lys Asn Ile Asn
 1250 1255 1260
 Trp Leu Asp Gly Glu Gly Asn Asp Gln Val Gln Glu Ser Val Lys
 1265 1270 1275 1280

<210> 6398

<211> 91

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (69)

<220>

<221> UNSURE

<222> (86)

<220>

<221> UNSURE

<222> (87)

<400> 6398

Arg Arg Thr Ala Leu Met His Phe Leu Asn Met Phe Phe Phe Asp Ile
 1 5 10 15
 Tyr Pro Tyr Ile Ala Gly Thr Val Phe Leu Val Gly Ser Trp Leu Arg
 20 25 30
 Tyr Asp Tyr Gly Gln Tyr Thr Trp Arg Ala Ala Ser Ser Gln Met Leu
 35 40 45
 Asp Arg Lys Gly Met Asn Leu Ala Ser Asn Leu Phe His Ile Gly Ile
 50 55 60
 Leu Gly Ile Phe Xaa Arg Ser Leu Pro Gly Ala Leu Thr Pro His Trp
 65 70 75 80
 Tyr Ser His Pro Ala Xaa Xaa Glu Leu Gln Ser
 85 90

<210> 6399

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 6399

Tyr Ala Ala Leu Glu Asn Arg Ala Gly Glu Gly Gly Met Ile Trp His
 1 5 10
 Leu Phe Phe Gln Pro Phe Ile Glu Tyr Gly Phe Met Arg Arg Ala Leu
 20 25 30
 Val Val Cys Leu Ala Leu Ser Val Ser Thr Thr Ala Leu Gly Val Phe
 35 40 45
 Leu Gln Leu Arg Arg Met Ser Leu Met Gly Asp Ala Leu Ser His Ala
 50 55 60
 Ile Leu Pro Gly Val Ala Val Gly Tyr Leu Ser Gly Met Ser Leu
 65 70 75 80
 Leu Ala Met Thr Val Gly Gly Phe Ile Ala Gly Ile Ala Val Ala Leu
 85 90 95
 Val Ala Gly Leu Val Ser Arg Arg Thr Pro Leu Lys Glu Asp Ala Ser
 100 105 110
 Phe Ala Gly Phe Tyr Leu Gly Ser Leu Ala Leu Gly Val Thr Leu Val
 115 120 125
 Ser Leu Arg Gly Ser Asn Val Asp Leu Leu His Leu Leu Phe Gly Ser
 130 135 140
 Ile Leu Ala Val Asp Ser Ala Ser Ala Leu Phe Val Thr Gly Val Cys
 145 150 155 160
 Met Phe Thr Leu Leu Thr Leu Ala Ile Phe Tyr Arg Gly Leu Val Ser
 165 170 175
 Glu Ala Phe Asp Thr Ala Trp Leu Gln Val Asn Ala Arg Trp Leu Pro
 180 185 190
 Gly Met Leu His Gly Leu Phe Leu Ala Leu Leu Val Leu Asn Leu Val
 195 200 205
 Ala Gly Phe Gln Val Leu Gly Thr Leu Met Ala Val Gly Leu Met Met
 210 215 220
 Leu Pro Ala Val Ala Ala Arg Cys Trp Val Arg Thr Leu Pro Gly Leu
 225 230 235 240
 Leu Leu Met Ala Gly Ile Ser Gly Ile Phe Cys Ala Trp Leu Gly Leu
 245 250 255
 Ser Leu Ser Trp Ala Val Ser Leu Pro Ala Gly Pro Ser Ile Val Leu
 260 265 270
 Thr Ala Ser Ala Leu Phe Phe Ile Ser Val Leu Phe Gly Thr Arg Ser
 275 280 285
 Arg Leu Ala Asp Ser Leu Arg Ala Leu Phe
 290 295

<210> 6400

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 6400

Asn Lys Arg Leu Ser Gly Arg Cys Ala Arg Ile Gly Phe Phe Leu Lys
 1 5 10 15
 Pro Pro Arg Lys Thr Arg Arg Ala Ser Pro Tyr Leu Met Arg Lys Cys
 20 25 30
 Tyr Leu Val Leu His Val Phe Leu Arg Pro Gly Ala Arg Met Thr Asp
 35 40 45
 His Glu Leu Met Gln Leu Ser Glu Val Val Gly Leu Ala Leu Lys Gln
 50 55 60
 Arg Gly Ala Thr Leu Thr Thr Ala Glu Ser Cys Thr Gly Gly Trp Val
 65 70 75 80
 Ala Lys Ala Ile Thr Asp Ile Ala Gly Ser Ser Ala Trp Phe Glu Arg
 85 90 95
 Gly Phe Val Thr Tyr Ser Asn Glu Ala Lys Ala Gln Met Ile Gly Val
 100 105 110
 Arg Glu Ala Thr Leu Glu Gln His Gly Ala Val Ser Glu Pro Val Val

115 120 125
 Ile Glu Met Ala Ile Gly Ala Leu Lys Glu Ala Arg Ala Asp Tyr Ala
 130 135 140
 Ile Ser Ile Ser Gly Ile Ala Gly Pro Asp Gly Gly Ser Asp Val Lys
 145 150 155 160
 Pro Val Gly Thr Val Trp Phe Gly Phe Ala Thr Ser Lys Gly Glu Gly
 165 170 175
 Ile Thr Arg Arg Glu Cys Phe Ser Gly Asp Arg Glu Ser Val Arg Arg
 180 185 190
 Gln Ala Thr Glu Tyr Ala Leu Lys Thr Leu Trp Gln Gln Phe Leu Gln
 195 200 205
 Asn Thr
 210

<210> 6401

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 6401

Leu Asp Phe Arg Ile Ile Met Ser Lys Ser Thr Ala Glu Ile Arg Gln
 1 5 10 15
 Ala Phe Leu Asp Phe Phe His Ser Lys Gly His Gln Val Val Ala Ser
 20 25 30
 Ser Ser Leu Val Pro Asn Asn Asp Pro Thr Leu Leu Phe Thr Asn Ala
 35 40 45
 Gly Met Asn Gln Phe Lys Asp Val Phe Leu Gly Leu Asp Lys Arg Asn
 50 55 60
 Tyr Ser Arg Ala Thr Thr Ser Gln Arg Cys Val Arg Ala Gly Gly Lys
 65 70 75 80
 His Asn Asp Leu Glu Asn Val Gly Tyr Thr Ala Arg His His Thr Phe
 85 90 95
 Phe Glu Met Leu Gly Asn Phe Ser Phe Gly Asp Tyr Phe Lys His Asp
 100 105 110
 Ala Ile Gln Tyr Ala Trp Glu Leu Leu Thr Gly Glu Asn Trp Phe Asn
 115 120 125
 Leu Pro Lys Glu Arg Leu Trp Val Thr Val Tyr Glu Thr Asp Asp Glu
 130 135 140
 Ala Phe Asp Ile Trp Glu Lys Glu Val Gly Ile Pro Arg Glu Arg Ile
 145 150 155 160
 Ile Arg Ile Gly Asp Asn Lys Gly Ala Pro Tyr Ala Ser Asp Asn Phe
 165 170 175
 Trp Gln Met Gly Asp Thr Gly Pro Val Phe Tyr His Gly Ala Gly Arg
 180 185 190
 Ile Arg Ala
 195

<210> 6402

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6402

Asp Ile His Val Pro Val Phe Ser Leu Ile Leu Ala Ser Ala Ala Ala
 1 5 10 15
 Gly Ala Gly Ala His Ser Val Ser Arg Pro Gly Arg Ala Leu Gly Gly
 20 25 30
 Gly Val Ala Met Ile Val Met Asn Asp Leu Val Ala Gly Tyr Asp Arg
 35 40 45
 Gln Pro Val Thr Arg Ala Leu Ser Gly Val Ile Glu Arg Gly Ser Met
 50 55 60

Thr Ala Ile Val Gly Ala Asn Gly Cys Gly Lys Ser Thr Leu Leu Lys
 65 70 75 80
 Thr Leu Ala Gly Phe Leu Pro Pro Val Ser Gly Thr Phe Arg Trp Gln
 85 90 95
 Gly Arg Arg Pro Val Val Gly Trp Leu Ala Gln Arg His Ala Leu Glu
 100 105 110
 Ala Gln Phe Pro Leu Thr Val Gln Asp Val Val Ser Met Gly Cys Trp
 115 120 125
 Pro Ala Ile Ser Leu Phe Ala Gly Phe Arg Arg Asp Ala Arg Met Arg
 130 135 140
 Ile Ala Gly Ala Leu Glu Arg Val Gly Leu Glu Ser Met Ala Phe Ser
 145 150 155 160
 Thr Ile Asp Glu Leu Ser Gly Gly Gln Phe Gln Arg Met Leu Phe Ala
 165 170 175
 Arg Val Leu Val Gln Gln Ala Pro Leu Val Met Leu Asp Glu Pro Phe
 180 185 190
 Thr Gly Val Asp Glu Ala Thr Cys Asn Val Leu Met Asp Leu Met Leu
 195 200 205
 Glu Met Tyr Met Gln Gly Gln Thr Leu Leu Ala Val Leu His Asp Ser
 210 215 220
 Glu Arg Val Ser Arg His Phe Pro Gln Thr Leu Arg Leu Asp Ala Asp
 225 230 235 240
 Thr Pro His Trp Lys Thr Glu Arg Val Arg Val Ala
 245 250

<210> 6403

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 6403

Ile Asp Arg Phe Phe Met Ser Glu Pro Thr Ser Arg Arg Pro Ala Tyr
 1 5 10 15
 Ser Arg Leu Leu Asp Arg Ala Val Arg Ile Leu Ala Val Arg Asp His
 20 25 30
 Ser Glu Gln Glu Leu Arg Arg Lys Leu Ser Ala Pro Val Met Ser Lys
 35 40 45
 Asn Gly Pro Glu Asp Ile Asp Ala Thr Ala Glu Asp Tyr Asp Arg Val
 50 55 60
 Val Ala Trp Cys Tyr Glu His His Tyr Leu Asp Asp Gly Arg Phe Ala
 65 70 75 80
 Ala Arg Phe Leu Ala Ser Arg Gly Arg Lys Gly Tyr Gly Pro Ala Arg
 85 90 95
 Ile Arg Gln Glu Leu Asn Gln Lys Gly Val Ala Arg Glu Ser Ile Glu
 100 105 110
 Lys Ala Met Arg Glu Ser Glu Ile Asp Trp Cys Glu Leu Ala Arg Glu
 115 120 125
 Gln Ala Val Arg Lys Tyr Gly Glu Pro Leu Pro Arg Glu Phe Ser Glu
 130 135 140
 Lys Val Lys Ile Gln Arg Phe Leu Leu Tyr Arg Gly Phe Leu Met Glu
 145 150 155 160
 Asp Ile Gln Asp Ile Trp Arg Asn Phe Thr Asp
 165 170

<210> 6404

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 6404

Pro Ala Gly Ala Phe Leu Thr Gln Gly Glu Thr Met Lys Arg Thr Gly

<210> 6405

<212> PRT

<213> Enterobacter cloacae

Ser	Ala	Val	Ala	Ser	Pro	Gly	Met	Thr	Gly	Val	Ile	Met	Ala	Ile	Asp
1				5					10					15	
Glu	Asn	Lys	Gln	Lys	Ala	Leu	Ala	Ala	Ala	Leu	Gly	Gln	Ile	Glu	Lys
			20					25					30		
Gln	Phe	Gly	Lys	Gly	Ser	Ile	Met	Arg	Leu	Gly	Glu	Asp	Arg	Ser	Met
		35					40					45			
Asp	Val	Glu	Thr	Ile	Ser	Thr	Gly	Ser	Leu	Ser	Leu	Asp	Ile	Ala	Leu
	50					55					60				
Gly	Ala	Gly	Gly	Leu	Pro	Met	Gly	Arg	Ile	Val	Glu	Ile	Tyr	Gly	Pro
65					70					75				80	
Glu	Ser	Ser	Gly	Lys	Thr	Thr	Leu	Thr	Leu	Gln	Val	Val	Ala	Ala	Ala
				85					90					95	
Gln	Arg	Glu	Gly	Lys	Thr	Cys	Ala	Phe	Ile	Asp	Ala	Glu	His	Ala	Leu
			100					105					110		
Asp	Pro	Val	Tyr	Ala	Arg	Lys	Leu	Gly	Val	Asp	Ile	Asp	Asn	Leu	Leu
		115					120					125			
Cys	Ser	Gln	Pro	Asp	Thr	Gly	Gly	Gln	Ala	Leu	Glu	Ile	Cys	Asp	Ala

130 135 140
 Leu Ala Arg Ser Gly Ala Val Asp Val Ile Ile Val Asp Ser Val Ala
 145 150 155 160
 Ala Leu Thr Pro Lys Ala Glu Ile Glu Gly Glu Ile Gly Asp Ser His
 165 170 175
 Met Gly Leu Ala Ala Arg Met Met Ser Gln Ala Met Arg Lys Leu Ala
 180 185 190
 Gly Asn Leu Lys Gln Ser Asn Thr Leu Leu Ile Phe Ile Asn Gln Ile
 195 200 205
 Arg Met Lys Ile Gly Val Met Phe Gly Asn Pro Glu Thr Thr Thr Gly
 210 215 220
 Gly Asn Ala Leu Lys Phe Tyr Ala Ser Val Arg Leu Asp Ile Arg Arg
 225 230 235 240
 Ile Gly Ala Val Lys Glu Gly Asp Asn Val Val Gly Ser Glu Thr Arg
 245 250 255
 Val Lys Val Val Lys Asn Lys Ile Ala Ala Pro Phe Lys Gln Ala Glu
 260 265 270
 Phe Gln Ile Leu Tyr Gly Glu Gly Ile Asn Phe Leu Gly Glu Leu Val
 275 280 285
 Asp Leu Gly Val Lys Glu Lys Leu Ile Glu Lys Ala Gly Ala Trp Tyr
 290 295 300
 Ser Tyr Asn Gly Asp Lys Ile Gly Gln Gly Lys Ala Asn Ala Ile Ser
 305 310 315
 Trp Leu Lys Glu Asn Pro Ala Ala Ala Lys Glu Ile Glu Lys Lys Val
 325 330 335
 Arg Glu Leu Leu Leu Asn Asn Gln Asp Ser Lys Pro Asp Phe Val Val
 340 345 350
 Asp Gly Ala Asp Ala Glu Glu Thr Asn Glu Asp Phe
 355 360 365

<210> 6406

<211> 80

<212> PRT

<213> *Enterobacter cloacae*

<400> 6406

Pro Phe Leu Gly Phe Val Ala Arg Leu Val Arg Ser Ala Met Leu Val
 1 5 10 15
 Leu Leu Cys Val Asp Phe Phe Arg Ser Ala Arg Ala Cys Gly Leu Pro
 20 25 30
 Gly Trp Phe Phe Val Leu Arg Phe Ala Phe Pro Phe Ala Leu Ile Pro
 35 40 45
 Ser Phe Ser Val Leu Gly Leu Ala Leu Gly Asp Leu Leu Phe Gly Ala
 50 55 60
 Val Leu Ser Glu Thr Val Phe Ala Trp Pro Gly Met Gly Ala Trp Val
 65 70 75 80

<210> 6407

<211> 110

<212> PRT

<213> *Enterobacter cloacae*

<400> 6407

Phe Asn Phe Lys Val Asn Tyr Tyr Gly Gly Thr Met Ile His Ser Phe
 1 5 10 15
 Lys Asp Arg Arg Leu Glu Lys Phe Phe Arg Asn Gly Lys Thr Thr Ala
 20 25 30
 Gly Ile Pro Ser Glu Ile Ile Asn Ala Ile Leu Cys Arg Leu Glu Thr
 35 40 45
 Leu Asp Asn Val Gln Ser Glu Arg Glu Leu Leu Ser Asn Ser Leu Arg
 50 55 60

Tyr Glu Arg Leu Arg Met Thr Ser Asn Arg Tyr Ser Ser Ile Arg Val
 65 70 75 80
 Asn Ser Lys Tyr Arg Leu Phe Phe Glu Trp Asn Asp Gly Ala His Asn
 85 90 95
 Val His Leu Ser Ala His Asp Tyr Lys Ser Leu Ile His
 100 105 110

<210> 6408

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 6408

Gly Trp Leu Met Ser Thr Ile Ser Thr Asp Leu Ile Ala Arg Ile Tyr
 1 5 10 15
 Ala Ala Ser Glu Leu Pro Leu Ser Asn Asp Glu Leu Tyr Arg Glu Val
 20 25 30
 Gln Arg Glu Thr Gly Met Ser Asp Ala Glu Leu His Glu Leu Lys Glu
 35 40 45
 Phe Gly Ser Asp Lys Thr Arg Thr Ser Gly Val Lys His Lys Val Arg
 50 55 60
 Trp Phe Gln Gln Thr Leu Arg Gln Ala Gly Val Ile Glu Arg Val Pro
 65 70 75 80
 Glu Lys Arg Gly Val Trp Arg Tyr Ser Ser Lys Thr Lys Thr Asn Leu
 85 90 95
 His Glu Ser Trp Glu Lys Leu Cys Val Val Gly Phe Ser Thr Ser Leu
 100 105 110
 Gly Ala Ser Val Phe Gly Asn Ala Tyr Ala Phe Phe Ser Asn Ile Thr
 115 120 125
 Glu Gln Ile His Leu Cys Leu Thr Ser Pro Pro Tyr Leu Leu Arg Asn
 130 135 140
 Ser Arg Asp Tyr Gly His Gly Gly Arg Gly Glu Gln Val Tyr Ile
 145 150 155 160
 Asp Trp Leu Leu Arg Ile Leu Glu Pro Ile Val Lys Gln Leu Val Pro
 165 170 175
 Gly Ala Ser Val Ala Leu Asn Ile Thr Gln Asp Ser Phe Asn Arg Gly
 180 185 190
 Arg Pro Ser Arg Ser Leu Tyr Leu Glu Arg Leu Thr Leu Ala Leu Cys
 195 200 205
 Asp Lys Leu Gly Leu Glu Leu Met Asp Arg Leu Gln Trp Val Asn Arg
 210 215 220
 Ser Lys Pro Pro Ser Pro Thr His Trp Ala Cys Lys Gln Arg Val Gln
 225 230 235 240
 Leu Cys Ser Ser Tyr Glu Pro Val Leu Trp Phe Thr Asn Asp Ala Ser
 245 250 255
 Lys Val Arg Ser Asn Asn Leu Arg Val Leu Gln Pro His Ser Glu Gln
 260 265 270
 His Leu Lys Leu Gln Ala Ala Gly Gly Glu Asn Arg Thr Thr Phe Tyr
 275 280 285
 Gly Asp Gly Ala Tyr Gln Leu Lys Ser Gly Ser Phe Gly Asn Lys Thr
 290 295 300
 Glu Gly Thr Ile Pro Lys Asn Thr Leu Phe Tyr Gly Asn Ser Cys Ala
 305 310 315 320
 Asp Thr Arg Phe Cys His Ser Ile Ala Arg Glu Leu Gly Phe Pro Leu
 325 330 335
 His Gly Ala Thr Ser Pro Thr Arg Leu Ala Ala Phe Leu Ile Glu Phe
 340 345 350
 Leu Thr Glu Pro Gly Asp Leu Val Val Asp Pro Phe Ala Gly Leu His
 355 360 365
 Lys Val Pro Ile Ala Ala Glu Arg Leu Gly Arg Arg Trp Leu Ala Thr
 370 375 380

Asp Lys Ile Met Glu Trp Leu Ala Ile Ser Arg Asn Leu Phe Thr Ala
 385 390 395 400
 Ala Pro Gly Tyr Lys Ser Asn Pro Met Leu Asp Glu Leu Ala Glu Leu
 405 410 415
 Tyr Arg Ala
 420

<210> 6409

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6409

Cys Gly Thr Ile Lys Asn Gly Gly Trp Pro Val Ser Tyr Ser Ile Lys
 1 5 10 15
 Ile Gly Lys His Ser Ile Glu Leu Ala Gly Tyr Ala Gly Lys Val Val
 20 25 30
 Ala Pro Asn Thr Gln Met Ala Ala Leu Phe Arg Gly Met Ala Gly Glu
 35 40 45
 Leu Thr Asn Leu Arg Thr Thr Ala Gln Gln Ala Glu Ala Glu Ala Asp
 50 55 60
 Leu Leu Asp Val Ile Arg Asn Asp Pro Asp Leu Asn Glu Gln Ala Lys
 65 70 75 80
 Asn Arg Arg Ala Gly Glu Ala Arg Asn Pro Asp Thr Leu Lys Asp Phe
 85 90 95
 Thr Arg Gly Val Ala Ala Val Ser Glu Gln Ala Ala Asn Ile Leu Asp
 100 105 110
 Tyr Leu Lys Asn Arg Leu Ala Pro Val Asn Pro Leu Ala Pro Asp Asp
 115 120 125
 Val Gln Gly Phe Met Arg Asp Ser Glu Met Arg Gln Ala Phe Ala Arg
 130 135 140
 Leu Asp Arg Arg Ser Gln Glu Lys Met Leu Leu Ser Met His Ser Gly
 145 150 155 160
 Lys His Gln Glu Leu Ala Asp Ala Leu Leu Arg Ala His Ala Val Cys
 165 170 175
 Ser Gly Leu Asp Thr Glu Gln Leu Lys Arg Leu Gly Phe Ser Arg Ile
 180 185 190
 Ala Ser Glu Asn Gly Gln Val Ile Ser Ala Val Ala Asp Leu Val Asp
 195 200 205
 Ala Val Arg Lys Asp Val Thr Gln Ile Thr Ala Val Arg Thr Trp Tyr
 210 215 220
 Asn Asn Leu Val Tyr Gly Lys Asn Asp Asp Pro Ser Glu Val Leu Pro
 225 230 235 240
 Arg Met Thr Gly Leu Asp Gln Leu Ser Glu His Val Ser Ala Met Leu
 245 250 255
 Lys Gly Ser Gln Arg Gln Thr His Ser Glu Glu Lys Gln Ala Ala
 260 265 270

<210> 6410

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6410

Pro Gly Lys Thr Asn Met Thr Ile Lys Asn Ala Arg Ala Gly Gln Gly
 1 5 10 15
 Phe Ala His Pro Glu Asn Ser Ser Asp Asp Ile Ser Val Ile Lys Phe
 20 25 30
 Glu Asp Ala Lys Val Arg Ile Val Lys Ile Leu Gly Glu Pro Trp Phe
 35 40 45
 Val Ala Ala Asp Val Cys Ala Ala Leu Glu Ile Ala Asp His Lys Val

50 55 60
 Ala Leu Arg Arg Leu Asp Asp Glu Lys Gly Glu Cys Leu Ile Pro
 65 70 75 80
 Thr Pro Gly Gly Lys Gln Thr Met Arg Thr Val Cys Glu Ser Gly Phe
 85 90 95
 Tyr Lys Leu Ile Ser Arg Ser Arg Lys Ala Ile Thr Pro Gly Thr Phe
 100 105 110
 Ala His His Phe Ser Asn Trp Val Phe Arg Glu Val Ile Pro Ser Ile
 115 120 125
 Arg Lys Thr Gly Phe Tyr Gly Val Pro Phe Val Phe Leu Asn Asp Phe
 130 135 140
 Ser Arg Arg Met Ala Ala Tyr Gln Gln Glu Ala Ser Lys Arg Gly Tyr
 145 150 155 160
 Lys Leu Gln Gln Cys Lys Gly Val Lys Glu Ala Leu Glu Arg Glu Glu
 165 170 175
 Ile Gln Leu Trp Leu Lys Tyr Gln Pro Glu Leu Leu Lys Glu Asn Gly
 180 185 190
 Asp Glu
 195

<210> 6411

<211> 627

<212> PRT

<213> Enterobacter cloacae

<400> 6411

Ile Cys Phe Phe Arg Ala Gly Arg Arg Arg Lys Arg Tyr Arg Ser Asp
 1 5 10 15
 Tyr Ala Gly Thr Gly His Arg Thr Asn Ser Gly Tyr Ala Gly Asn His
 20 25 30
 Gln Gly Ala Arg Glu Gln Lys Met Lys Asn Ala Pro Asn Leu Lys Lys
 35 40 45
 Gln Pro Ala Asp Leu Met Glu Glu Ser Ile Ile Phe Ala Gly Ala Asp
 50 55 60
 Ala Trp Thr Phe Ala Lys Ala Trp Gln Glu Met Asn Pro Ile Gly Asp
 65 70 75 80
 Thr Val Pro Pro Val Val Leu Asp Lys Lys Gln Leu Ala Glu Leu Glu
 85 90 95
 Asn Ile Arg Ile Val Asp Asp Gly Arg Leu Tyr Ala Arg Val Cys Arg
 100 105 110
 Gly Gly His Leu Thr Glu Arg Gln Ile Thr Ile Leu Ala Thr Lys Leu
 115 120 125
 Ala Val Ala Gly Val Glu Arg Ala Gln Phe Tyr Ser Glu Gly Tyr Gln
 130 135 140
 Leu Leu Glu Asp Trp Thr Pro Gln Leu Pro Arg Leu Lys Ala Asp Ala
 145 150 155 160
 Gln Ala Gly Lys Ser Met Val Ile Gly Lys Pro Leu Thr Asp Val Asn
 165 170 175
 Leu Arg Asp Leu Ala Asp Asn Glu Lys Ala Leu Ile Leu Ala Ala Arg
 180 185 190
 Tyr Thr Gly Ile Ala Ile Asn Glu Asn Asn Glu Gly Val Tyr Val Tyr
 195 200 205
 Arg Ala Gly Ile Trp Glu Lys Thr Ser Leu Leu Glu Leu Ser Arg Glu
 210 215 220
 Met Val Ala Ile Tyr Asn Glu Asn Lys Thr Asn Phe Ser Lys Arg Ala
 225 230 235 240
 Ile Asn Asn Val Ile Asp Ala Leu Lys Ile Val Ile Pro Val Met Gly
 245 250 255
 Glu Pro Arg Arg Ser Leu Ile Pro Phe Ala Asn Gly Val Tyr Asp Met
 260 265 270
 Glu Thr Gly Val Phe Ser Glu His Ser Gln Asp Asn Trp Leu Thr Asn

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      275              280              285
His Asn Gly Val Ser Tyr Thr Pro Ala Val Pro Gly Glu Asn Leu Arg
290
Asp His Ala Pro Asn Phe His Lys Trp Leu Ser Tyr Ala Ser Asp Arg
305
Asp Ala Ile Lys Met Gln Arg Ile Ala Ala Leu Phe Met Val Leu
325
Ala Asn Arg Tyr Asp Trp Gln Leu Phe Leu Glu Ile Thr Gly Glu Gly
340
Gly Ser Gly Lys Ser Val Phe Thr His Ile Ala Thr Met Leu Ala Gly
355
Ala His Asn Thr Ala Ser Gly Asn Met Ala Ala Leu Asp Ser Ala Arg
370
Gly Arg Ala Gln Phe Val Gly Lys Ser Met Ile Thr Leu Pro Asp Gln
385
Pro Lys Tyr Ser Gly Glu Gly Thr Gly Ile Lys Ala Ile Thr Gly Gly
405
Asp Ala Val Glu Ile Asp Pro Lys His Glu His Gln Tyr Thr Ala Val
420
Leu Arg Ala Val Val Val Ala Thr Asn Asn Thr Pro Met Ile Phe Thr
435
Glu Arg Ala Gly Gly Val Ser Arg Arg Arg Val Ile Phe Gln Phe Asn
450
Arg Arg Val Ser Glu Glu Asp Lys Asp Pro Asp Leu Ala Glu Lys Ile
465
Ser Ala Glu Ile Pro Val Val Val Arg Arg Leu Leu Ala Asn Phe Ala
485
Asn Pro Glu Lys Ala Arg Ala Leu Leu Leu Glu Gln Arg Asn Ser Glu
500
Glu Ala Leu Glu Val Lys Gln Lys Thr Asp Pro Leu Tyr Ala Phe Cys
515
Ala His Leu Glu Arg Leu Ala Asp Cys Ala Gly Met Met Val Gly Asn
530
Arg Asn Pro Pro His Tyr Pro Arg Ile Tyr Leu Tyr His Ala Tyr Leu
545
Ala Phe Leu Glu Ala Asn Gly Phe Asp Lys Pro Leu Thr Leu Asn Lys
565
Phe Ala Glu Gly Met Glu Ser Ala Met Arg Glu Phe Asn His Glu Tyr
580
Arg Lys Glu Arg Arg Ala Arg Gly Met Val Thr Asn Val Glu Leu Ser
595
Glu Ser Ala Glu Asp Trp Leu Pro Gln Thr His Pro Val Ala Gly His
610
Lys Glu
625

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<210> 6412

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 6412

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Lys Thr Gln Tyr Leu Phe Phe Glu Asp Tyr Ala Leu Ile Asp Leu Trp
1
Leu Lys Ser Lys Arg Phe Phe Phe Glu Glu Lys Leu Leu Phe Tyr Tyr
20
Leu Ser Arg Leu Lys Asn Arg Leu Phe Thr Leu Ser Ser Ser Thr Arg
35
Val Tyr Leu Ser Ala Phe Arg Asn Lys Gly Val Asn Met Ser Lys Ala
50
Leu Ile Arg Leu Pro Glu Val Gln Arg Arg Thr Gly Tyr Ser Lys Ala
55
60

```

65 70 75 80
Trp Ile Tyr Arg Leu Leu Lys Glu Arg Lys Phe Pro Gln Ser Val Lys
 85
Ile Gly Ser Arg Ser Ile Ala Phe Val Glu Ser Glu Ile Asp Ala Trp
 100
Ile Thr Gln Arg Ile Glu Glu Arg Asp Ala Leu Leu Val Arg Arg Pro
 115 120 125
Gln Leu
 130

<210> 6413

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 6413

[illegible]

<210> 6414

<211> 954

<212> PRT

<213> Enterobacter cloacae

<400> 6414

Asn Arg Leu Asn Cys Leu Arg Asp Lys Tyr Gly Thr Glu Asn Leu Met
 1 5 10 15
 Ser Asp Tyr Lys Ser Thr Leu Asn Leu Pro Glu Thr Gly Phe Pro Met
 20 25 30
 Arg Gly Asp Leu Ala Lys Arg Glu Pro Gly Met Leu Ala Arg Trp Thr
 35 40 45
 Asp Asp Asp Leu Tyr Gly Ile Ile Arg Ala Ala Lys Lys Gly Lys Lys
 50 55 60
 Thr Phe Ile Leu His Asp Gly Pro Pro Tyr Ala Asn Gly Ser Ile His
 65 70 75 80
 Ile Gly His Ser Val Asn Lys Ile Leu Lys Asp Ile Ile Val Lys Ser
 85 90 95
 Lys Gly Leu Ala Gly Tyr Asp Ser Pro Tyr Val Pro Gly Trp Asp Cys
 100 105 110
 His Gly Leu Pro Ile Glu Leu Lys Val Glu Gln Glu Tyr Gly Lys Pro
 115 120 125
 Gly Glu Lys Phe Thr Ala Ala Glu Phe Arg Ala Lys Cys Arg Glu Tyr
 130 135 140
 Ala Ala Thr Gln Val Asp Gly Gln Arg Ala Asp Phe Ile Arg Leu Gly
 145 150 155 160
 Val Leu Gly Asp Trp Ser His Pro Tyr Leu Thr Met Asp Phe Lys Thr
 165 170 175
 Glu Ala Asn Ile Ile Arg Ala Leu Gly Lys Ile Ile Gly Asn Gly His
 180 185 190
 Leu His Lys Gly Ala Lys Pro Val His Trp Cys Val Asp Cys Arg Ser
 195 200 205
 Ala Leu Ala Glu Ala Glu Val Glu Tyr Tyr Asp Lys Thr Ser Pro Ser
 210 215 220
 Ile Asp Val Ala Phe Glu Ala Val Asp Gln Asp Ser Ile Lys Ala Lys
 225 230 235 240
 Phe Gly Leu Pro Gly Val Ser Gly Pro Val Ser Leu Val Ile Trp Thr
 245 250 255
 Thr Thr Pro Trp Thr Leu Pro Ala Asn Arg Ala Ile Ser Leu Ser Gly
 260 265 270
 Glu Phe Glu Tyr Ala Leu Val Gln Ile Asp Gly Arg Ala Val Ile Leu
 275 280 285
 Ala Lys Asp Leu Val Glu Ser Val Leu Lys Arg Ala Asn Ile Thr Asp
 290 295 300
 Tyr Thr Val Leu Gly Thr Val Lys Gly Asp Ala Leu Glu Leu Met Arg
 305 310 315 320
 Phe Lys His Pro Phe Leu Asp Phe Asp Val Pro Ala Ile Leu Gly Asp
 325 330 335
 His Val Thr Leu Asp Ala Gly Thr Gly Ala Val His Thr Ala Gly Gly
 340 345 350
 His Gly Pro Asp Asp Tyr Asn Ile Ser Leu Lys Tyr Gly Leu Glu Ile
 355 360 365
 Ala Asn Pro Val Gly Pro Asp Gly Ser Tyr Leu Pro Gly Thr Tyr Pro
 370 375 380
 Ala Leu Asp Gly Ile Asn Val Phe Lys Ala Asn Asp Ile Ile Val Asp
 385 390 395 400
 Met Leu Arg Thr Ser Gly Ala Leu Leu His Val Glu Lys Met Gln His
 405 410 415
 Ser Tyr Pro Cys Cys Trp Arg His Lys Thr Pro Ile Ile Phe Arg Ala
 420 425 430
 Thr Pro Gln Trp Phe Val Ser Met Asp Gln Lys Gly Leu Arg Glu Gln
 435 440 445
 Ser Leu Lys Glu Ile Lys Gly Val Gln Trp Ile Pro Asp Trp Gly Gln

450	455	460
Ala Arg Ile Glu Ser Met Val Ala Asn Arg Pro Asp Trp Cys Ile Ser		
465	470	475
Arg Gln Arg Thr Trp Gly Val Pro Met Ser Leu Phe Val His Lys Glu		
	485	490
Thr Gln Glu Leu His Pro Asn Thr Leu Glu Leu Met Glu Glu Val Ala		
	500	505
Lys Arg Val Glu Val Asp Gly Ile Gln Ala Trp Trp Asp Leu Asp Ala		
	515	520
Arg Asp Ile Leu Gly Ala Asp Ala Asp Asn Tyr Glu Lys Val Pro Asp		
	530	535
Thr Leu Asp Val Trp Phe Asp Ser Gly Ser Thr His Ala Ser Val Val		
	545	550
Asp Val Arg Pro Glu Phe Ala Gly His Ala Ala Asp Met Tyr Leu Glu		
	565	570
Gly Ser Asp Gln His Arg Gly Trp Phe Met Ser Ser Leu Met Ile Ser		
	580	585
Thr Ala Met Lys Gly Lys Ala Pro Tyr Arg Gln Val Leu Thr His Gly		
	595	600
Phe Thr Val Asp Gly Gln Gly Arg Lys Met Ser Lys Ser Ile Gly Asn		
	610	615
Thr Val Ser Pro Gln Asp Val Met Asn Lys Leu Gly Ala Asp Ile Leu		
	625	630
Arg Leu Trp Val Ala Ser Thr Asp Tyr Thr Gly Glu Met Ala Val Ser		
	645	650
Asp Glu Ile Leu Lys Arg Ala Ala Asp Ser Tyr Arg Arg Ile Arg Asn		
	660	665
Thr Ala Arg Phe Leu Leu Ala Asn Leu Asn Gly Phe Asp Pro Val Lys		
	675	680
Asp Met Val Lys Pro Glu Glu Met Val Val Leu Asp Arg Trp Ala Val		
	690	695
Gly Cys Ala Lys Ala Ala Gln Glu Asp Ile Leu Lys Ala Tyr Glu Ser		
	705	710
Tyr Asp Phe His Glu Val Val Gln Arg Leu Met Arg Phe Cys Ser Ile		
	725	730
Glu Met Gly Ser Phe Tyr Leu Asp Ile Ile Lys Asp Arg Gln Tyr Thr		
	740	745
Ala Lys Ala Asp Ser Val Ala Arg Arg Ser Cys Gln Ser Ala Lys Tyr		
	755	760
His Ile Ala Glu Ala Leu Val Arg Trp Met Ala Pro Ile Met Ser Phe		
	770	775
Thr Ala Asp Glu Ile Trp Gly Tyr Leu Pro Gly Asp Arg Glu Lys Tyr		
	785	790
Val Phe Thr Gly Glu Trp Tyr Glu Gly Leu Phe Asp Leu Ser Ser Thr		
	805	810
Glu Ala Met Asn Asp Ala Tyr Trp Asp Glu Leu Leu Lys Val Arg Gly		
	820	825
Glu Val Asn Lys Val Ile Glu Gln Ala Arg Ala Asp Lys Lys Val Gly		
	835	840
Gly Ser Leu Glu Ala Thr Val Thr Leu Tyr Ala Glu Pro Glu Leu Ala		
	850	855
Ala Lys Leu Thr Ala Leu Gly Asp Glu Leu Arg Phe Val Leu Leu Thr		
	865	870
Ser Gly Ala Lys Val Ala Asp Tyr Ala Glu Ala Ser Ala Asp Ala Gln		
	885	890
Gln Ser Glu Leu Leu Lys Gly Leu Lys Val Ala Leu Ser Lys Ala Asp		
	900	905
Gly Glu Lys Cys Pro Arg Cys Trp His Tyr Thr Thr Asp Val Gly Gln		
	915	920
Val Ala Glu His Ala Asp Ile Cys Gly Arg Cys Val Ser Asn Val Ala		
	930	935
		940

Gly Asp Gly Glu Lys Arg Lys Phe Ala
945 950

<210> 6415

<211> 183

<212> PRT

<213> *Enterobacter cloacae*

<400> 6415

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Arg Val Ala Ile Pro Ala Tyr Arg Ile Cys Gly Pro Arg Arg Pro Gly
1      5      10      15
Lys Arg Ser Ala Thr Gly Gln Gln Val Thr Gln Asn Lys Arg Ala Ile
      20      25      30
Cys Met Ser Lys Ser Val Gln Ser Asn Ser Ala Val Leu Val His Phe
      35      40      45
Thr Leu Lys Leu Asp Asp Gly Ser Thr Ala Glu Ser Thr Arg Asn Asn
      50      55      60
Gly Lys Pro Ala Leu Phe Arg Leu Gly Asp Thr Ser Leu Ser Glu Gly
      65      70      75      80
Leu Glu Gln Gln Leu Leu Gly Leu Lys Glu Gly Glu Lys Lys Ala Phe
      85      90      95
Ser Leu Glu Pro Asp Ala Ala Phe Gly Val Pro Ser Pro Asp Leu Ile
      100      105      110
Gln Tyr Phe Ser Arg Arg Glu Phe Met Asp Ala Gly Glu Pro Glu Ile
      115      120      125
Gly Ala Ile Met Leu Phe Thr Ala Met Asp Gly Ser Glu Met Pro Gly
      130      135      140
Val Ile Arg Glu Ile Asn Gly Asp Ser Ile Thr Val Asp Phe Asn His
      145      150      155      160
Pro Leu Ala Gly Arg Thr Val His Phe Asp Val Glu Val Leu Glu Ile
      165      170      175
Asp Pro Ala Leu Glu Ala
      180

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<210> 6416

<211> 170

<212> PRT

<213> *Enterobacter cloacae*

<400> 6416

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Val Cys Leu Met Ser Lys Thr Leu Cys Ser Thr Gly Leu Arg Trp Leu
1      5      10      15
Trp Leu Val Val Val Leu Ile Ile Asp Leu Gly Ser Lys Phe Leu
      20      25      30
Ile Leu Gln Asn Phe Ala Leu Gly Asp Thr Val Pro Leu Phe Pro Ser
      35      40      45
Leu Asn Leu His Tyr Ala Arg Asn Tyr Gly Ala Ala Phe Ser Phe Leu
      50      55      60
Ala Asp Ser Gly Gly Trp Gln Arg Trp Phe Phe Ala Gly Ile Ala Ile
      65      70      75      80
Gly Ile Cys Val Val Leu Ala Val Leu Met Tyr Arg Ser Lys Ala Thr
      85      90      95
Gln Lys Leu Asn Ile Ala Tyr Ala Leu Ile Ile Gly Gly Ala Leu
      100      105      110
Gly Asn Leu Phe Asp Arg Leu Trp His Gly Phe Val Val Asp Met Ile
      115      120      125
Asp Phe Tyr Val Gly Asp Trp His Phe Ala Thr Phe Asn Leu Ala Asp
      130      135      140
Ser Ala Ile Cys Val Gly Ala Ala Leu Ile Val Leu Glu Gly Phe Leu
      145      150      155      160
Pro Lys Pro Ala Ala Lys Glu Gln Ala

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<210> 6417
 <211> 329
 <212> PRT
 <213> Enterobacter cloacae

<400> 6417

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Lys Cys Trp Arg Ser Ile Arg His Trp Arg Pro Glu Met Gln Ile Leu
1          5          10          15
Leu Ala Asn Pro Arg Gly Phe Cys Ala Gly Val Asp Arg Ala Ile Ser
20          25          30
Ile Val Glu Asn Ala Leu Glu Ile Tyr Gly Ala Pro Ile Tyr Val Arg
35          40          45
His Glu Val Val His Asn Arg Tyr Val Val Asp Ser Leu Arg Glu Arg
50          55          60
Gly Ala Ile Phe Ile Glu Gln Ile Ser Glu Val Pro Asp Gly Ala Ile
65          70          75          80
Leu Ile Phe Ser Ala His Gly Val Ser Gln Ala Val Arg Asn Glu Ala
85          90          95
Lys Asn Arg Asp Leu Thr Val Phe Asp Ala Thr Cys Pro Leu Val Thr
100          105          110
Lys Val His Met Glu Val Ala Arg Ala Ser Arg Arg Gly Glu Glu Ser
115          120          125
Ile Leu Ile Gly His Ala Gly His Pro Glu Val Glu Gly Thr Met Gly
130          135          140
Gln Tyr Ser Asn Pro Glu Gly Gly Met Tyr Leu Val Glu Ser Pro Glu
145          150          155          160
Asp Val Phe Thr Leu Asn Val Lys Asn Glu Ala Arg Leu Ser Phe Met
165          170          175
Thr Gln Thr Thr Leu Ser Val Asp Asp Thr Ser Asp Val Ile Asp Ala
180          185          190
Leu Arg Gln Arg Phe Pro Lys Ile Val Gly Pro Arg Lys Asp Asp Ile
195          200          205
Cys Tyr Ala Thr Thr Asn Arg Gln Glu Ala Val Arg Ala Leu Ala Glu
210          215          220
Gln Ala Asp Val Val Leu Val Val Gly Ser Lys Asn Ser Ser Asn Ser
225          230          235          240
Asn Arg Leu Ala Glu Leu Ala Gln Arg Met Gly Lys Ala Ala Phe Leu
245          250          255
Ile Asp Asp Ala Thr Asp Ile Gln Glu Ala Trp Val Lys Asn Ala Val
260          265          270
Cys Val Gly Val Thr Ala Gly Ala Ser Ala Pro Asp Ile Leu Val Gln
275          280          285
Asn Val Ile Ala Arg Leu Gln Glu Leu Gly Gly Gly Glu Ala Val Pro
290          295          300
Leu Glu Gly Arg Glu Glu Asn Ile Val Phe Glu Val Pro Lys Glu Leu
305          310          315          320
Arg Ile Asp Ala Arg Glu Val Glu
325

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<210> 6418
 <211> 128
 <212> PRT
 <213> Enterobacter cloacae

<400> 6418

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Lys Met Thr Asn Arg Ala Ile Pro Leu Pro Asp Glu Gln Ala Thr Leu
1          5          10          15
Asp Leu Gly Lys Arg Val Ala Gln Ala Cys Gln Gly Ala Thr Val Ile
20          25          30

```

Tyr Leu Tyr Gly Asp Leu Gly Ala Gly Glu Thr Thr Phe Ser Arg Gly
 35 40 45
 Phe Leu Gln Ala Leu Gly His Asn Gly Asn Val Lys Ser Pro Thr Tyr
 50 55 60
 Thr Leu Val Glu Thr Tyr Thr Leu Glu Asn Ile Met Val Val His Phe
 65 70 75 80
 Asp Leu Tyr Arg Leu Ala Gly Pro Gly Arg Ala Gly Asn Leu Trp Gly
 85 90 95
 Ser Ala Ile Thr Leu Pro Thr Thr Pro Ser Ala Trp Trp Ser Gly Arg
 100 105 110
 Asn Lys Val Arg Val Cys Cys Leu Thr Arg Met Ser Lys Phe Thr
 115 120 125

<210> 6419

<211> 456

<212> PRT

<213> *Enterobacter cloacae*

<400> 6419

Pro Val Glu Arg Arg Asp Asn Gly Met Ile Asn Arg Val Lys Gly Trp
 1 5 10 15
 Val Leu Ala Ala Thr Val Leu Leu Cys Ala Gln Val Gly Ala Ala Ser
 20 25 30
 Leu Ser Asp Ile Gln Val Ser Asn Gly Asp Ser Gln Ala Arg Ile Thr
 35 40 45
 Phe Ser Phe Met Gly Asp Pro Glu Tyr Ala Phe Ser Gln Ile Asp Ser
 50 55 60
 Arg Ser Val Ala Leu Asp Ile Lys Gln Thr Gly Val Ile Gln Gly Leu
 65 70 75 80
 Pro Leu Gln Phe Ser Gly Asn Asn Leu Val Lys Ser Ile Arg Ser Gly
 85 90 95
 Thr Pro Lys Asp Thr Gln Ser Leu Arg Leu Val Val Asp Leu Thr Glu
 100 105 110
 Lys Gly Lys Thr Lys Ala Val Lys Gln Gln Asn Gly Ala Asn Tyr Thr
 115 120 125
 Val Val Phe Thr Ile Asn Ala Asp Val Pro Pro Pro Pro Pro Pro
 130 135 140
 Ala Pro Val Val Ala Lys Arg Val Glu Ala Pro Val Tyr Thr Pro Arg
 145 150 155 160
 Pro Ser Glu Pro Ala Arg Asn Pro Phe Lys Ser Gln Asn Asp Arg Leu
 165 170 175
 Thr Ala Val Thr Ser Ser Asn Tnr Val Thr Arg Pro Ala Val Ser Ala
 180 185 190
 Arg Arg Thr Pro Val Ser Gly Asp Lys Val Ile Ile Ala Ile Asp Ala
 195 200 205
 Gly His Gly Gly Gln Asp Pro Gly Ala Ile Gly Pro Gly Gly Thr Arg
 210 215 220
 Glu Lys Asn Val Thr Ile Ala Ile Ala Arg Lys Leu Arg Ala Leu Leu
 225 230 235 240
 Asn Asp Asp Pro Met Phe Lys Gly Val Met Thr Arg Asp Gly Asp Tyr
 245 250 255
 Phe Ile Ser Val Met Gly Arg Ser Asp Val Ala Arg Lys Gln Asn Ala
 260 265 270
 Asn Phe Leu Val Ser Ile His Ala Asp Ala Ala Pro Asn Arg Asn Ala
 275 280 285
 Thr Gly Ala Ser Val Trp Val Leu Ser Asn Arg Arg Ala Asn Ser Glu
 290 295 300
 Met Ala Asn Trp Leu Glu Glu His Glu Lys Gln Ser Glu Leu Leu Gly
 305 310 315 320
 Gly Ala Gly Asp Val Leu Ala Asn Ser Gln Ala Asp Pro Tyr Leu Ser
 325 330 335

Gln Ala Val Leu Asp Leu Gln Phe Gly His Ser Gln Arg Val Gly Tyr
 340 345 350
 Asp Val Ala Thr Asn Val Leu Ser Gln Leu Gln Ser Ile Gly Ser Leu
 355 360 365
 His Lys Arg Arg Pro Glu His Ala Ser Leu Gly Val Leu Arg Ser Pro
 370 375 380
 Asp Ile Pro Ser Ile Leu Val Glu Thr Gly Phe Ile Ser Asn His Gly
 385 390 395 400
 Glu Glu Arg Leu Leu Gly Ser Asp Ser Tyr Gln Gln Ile Ala Glu
 405 410 415
 Ala Ile Tyr Asn Gly Leu Arg Lys Tyr Phe Asp Ala His Pro Leu Gln
 420 425 430
 Ser Ala Pro Gln Gly Gly Ala Ala Gln Thr Ala Ser Ala Ala Leu Pro
 435 440 445
 Gly Glu Met Thr Ala Thr Asn
 450 455

<210> 6420

<211> 606

<212> PRT

<213> Enterobacter cloacae

<400> 6420

Gly Glu Phe Met Pro Ile Gln Val Leu Pro Pro Gln Leu Ala Asn Gln
 1 5 10 15
 Ile Ala Ala Gly Glu Val Val Glu Arg Pro Ala Ser Val Val Lys Glu
 20 25 30
 Leu Val Glu Asn Ser Leu Asp Ala Gly Ala Thr Arg Ile Asp Ile Asp
 35 40 45
 Ile Glu Arg Gly Gly Ala Lys Leu Ile Arg Ile Arg Asp Asn Gly Cys
 50 55 60
 Gly Ile Lys Lys Asp Glu Leu Ala Leu Ala Leu Ala Arg His Ala Thr
 65 70 75 80
 Ser Lys Ile Ala Ser Leu Asp Asp Leu Glu Ala Ile Ile Ser Leu Gly
 85 90 95
 Phe Arg Gly Glu Ala Leu Ala Ser Ile Ser Ser Val Ser Arg Leu Thr
 100 105 110
 Leu Thr Ser Arg Thr Ala Asp Gln Gln Glu Ala Trp Gln Ala Tyr Ala
 115 120 125
 Glu Gly Arg Asp Met Asp Val Thr Val Lys Pro Ala His Pro Val
 130 135 140
 Gly Thr Thr Leu Glu Val Leu Asp Leu Phe Tyr Asn Thr Pro Ala Arg
 145 150 155 160
 Arg Lys Phe Met Arg Thr Glu Lys Thr Glu Phe Gly His Ile Asp Glu
 165 170 175
 Ile Ile Arg Arg Ile Ala Leu Ala Arg Phe Asp Val Thr Leu Asn Leu
 180 185 190
 Ser His Asn Gly Lys Val Met Arg Gln Tyr Arg Ala Val Ala Glu Gly
 195 200 205
 Gly Gln Lys Glu Arg Arg Leu Gly Ala Ile Cys Gly Thr Pro Phe Leu
 210 215 220
 Glu Lys Ala Leu Ala Ile Glu Trp Gln His Gly Asp Leu Ala Leu Arg
 225 230 235 240
 Gly Trp Val Ala Asp Pro Asn Ala Ser Ser Ala Ala Phe Ala Glu Ile
 245 250 255
 Gln Tyr Cys Tyr Val Asn Gly Arg Met Met Arg Asp Arg Leu Ile Asn
 260 265 270
 His Ala Ile Arg Gln Ala Cys Glu Asp Lys Leu Gly Ala Asp Gln Gln
 275 280 285
 Pro Ala Phe Val Leu Tyr Leu Glu Ile Asp Pro His Gln Val Asp Val
 290 295 300

Asn Val His Pro Ala Lys His Glu Val Arg Phe His Gln Ser Arg Leu
 305 310 315 320
 Val His Asp Phe Ile Tyr Gln Gly Val Ala Ala Val Leu Gln Gln Gln
 325 330 335
 Ala Glu Pro Glu Leu Pro Leu Ala Lys Glu Glu Pro Ala Pro Arg Pro
 340 345 350
 Leu Pro Glu Asn Arg Val Ala Ala Gly Arg Asn His Phe Ala Glu Pro
 355 360 365
 Ala Val Ala Arg Glu Pro Ala Ala Pro Arg Leu Ser Pro Ala Gly Asn
 370 375 380
 Ala Pro Arg Pro Thr Gly Ala Asn Tyr Pro Asn Ala Gln Pro Gly Tyr
 385 390 395 400
 His Lys Gln Gln Gly Ala Leu Tyr Arg Lys Leu Leu Asp Thr Pro Ala
 405 410 415
 Val Glu His Lys Glu His Ile Thr Val Ser Thr Pro Ser Leu Asp Gly
 420 425 430
 His Ser Gln Ser Phe Gly Arg Val Leu Thr Ile Ile Ala Pro Asp Met
 435 440 445
 Ala Leu Leu Glu Arg Glu Gly Lys Leu Leu Leu Leu Ala Leu Ser Val
 450 455 460
 Ala Glu Arg Trp Leu Lys Gln Ala Gln Leu Thr Pro Gly Val Asn Ala
 465 470 475 480
 Ala Cys Ala Gln Pro Leu Leu Ile Pro Val Arg Leu Lys Ile Ser Pro
 485 490 495
 Glu Glu Thr Gly Val Leu Arg Arg Val Gln Thr Gln Leu Ala Glu Met
 500 505 510
 Gly Ile Glu Ile Val Leu Asp Ala Gln His Val Thr Ile Arg Ala Val
 515 520 525
 Pro Leu Pro Leu Arg Gln Gln Asn Leu Gln Asn Leu Ile Pro Glu Leu
 530 535 540
 Ile Gly Tyr Leu Ala Gln Gln Thr Thr Phe Asp Ala Ala Asp Thr Ala
 545 550 555 560
 Gln Trp Ile Ala Arg His Leu Ala Ser Glu His Ala Pro Trp Ser Met
 565 570 575
 Ala Gln Ala Ile Thr Val Leu Ala Glu Val Glu Arg Leu Cys Pro Gln
 580 585 590
 Leu Val Lys Ala Pro Ala Arg Trp Phe Val Thr Thr Cys
 595 600 605

<210> 6421

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 6421

Gly Lys Asp Arg Met Ala Lys Gly Gln Ser Leu Gln Asp Pro Phe Leu
 1 5 10 15
 Asn Ala Leu Arg Arg Glu Arg Val Pro Val Ser Ile Tyr Leu Val Asn
 20 25 30
 Gly Ile Lys Leu Gln Gly Gln Ile Glu Ser Phe Asp Gln Phe Val Ile
 35 40 45
 Leu Leu Lys Asn Thr Val Ser Gln Met Val Tyr Lys His Ala Ile Ser
 50 55 60
 Thr Val Val Pro Ser Arg Pro Val Ser His His Ser Asn Asn Ala Gly
 65 70 75 80
 Gly Gly Thr Gly Ser Asn Tyr His His Gly Ser Asn Ala Gln Gly Ser
 85 90 95
 Ser Thr Pro Ala Gln Asp Ser Glu Glu Thr Glu
 100 105

<210> 6422

<211> 564
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6422

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Arg Ala Ile His Ser Ile Ser Pro Trp Tyr Cys Leu Ser Ser His Ala
1      5      10      15
Trp Ser Leu Gly Ser Leu Ala Glu Arg Ser Val Ser Val Ile Pro Thr
20      25      30
Phe Trp Lys Pro Ser Ser Ala Pro His Cys Phe Ile Phe Cys Ala Asn
35      40      45
Ser Leu Arg Ser Arg Gly Cys Asp Met Thr Asp His Thr Val Lys Lys
50      55      60
Asn Leu Ala Ser Ile Pro His Ser Ile Trp His Ala Asp Asp Leu Arg
65      70      75      80
Arg Ala Glu Lys Glu Ala Ala Asp Ser Leu Gly Ile Thr Leu Tyr Glu
85      90      95
Leu Met Gln Arg Ala Gly Glu Ala Ala Phe Asn Val Ala Arg Thr Ala
100     105     110
Tyr Pro Asp Ala Ser His Tyr Leu Ile Leu Cys Gly His Gly Asn Asn
115     120     125
Gly Gly Asp Gly Tyr Val Val Ala Arg Leu Ala Val Ala Ala Gly Leu
130     135     140
Arg Val Thr Leu Met Ala Leu Glu Ser Asp Lys Pro Leu Pro Glu Glu
145     150     155     160
Ala Gly Met Ala Arg Glu Ala Trp Leu Asn Ala Gly Gly Ile Ile His
165     170     175
Ala Pro Asp Ile Ile Trp Pro Glu Asp Val Asp Val Ile Val Asp Gly
180     185     190
Leu Leu Gly Thr Gly Leu Met Arg Ala Pro Arg Asp Asp Val Ala Ala
195     200     205
Leu Ile Thr Arg Ala Asn Ala His Pro Ala Pro Val Val Ala Leu Asp
210     215     220
Ile Pro Ser Gly Leu Met Ala Gln Thr Gly Ala Thr Pro Gly Val Ser
225     230     235     240
Ile Glu Ala Ala His Thr Val Thr Phe Ile Ala Leu Lys Pro Gly Leu
245     250     255
Leu Thr Gly Lys Ala Arg Asp Val Val Gly Thr Leu His His Asn Ala
260     265     270
Leu Gly Leu Glu Asn Trp Leu Ile Gly Gln Asp Thr His Ile Thr Arg
275     280     285
Phe Asp Ala Ser Gln Leu Ala Gln Trp Leu Pro Pro Arg Arg Pro Thr
290     295     300
Ser His Lys Gly Asp His Gly Arg Leu Leu Ile Ile Gly Gly Asp His
305     310     315     320
Gly Thr Ala Gly Ala Ile Arg Met Thr Gly Glu Ala Ala Leu Arg Ser
325     330     335
Gly Gly Gly Leu Ile Arg Val Leu Thr Arg Ser Glu Asn Ile Pro Pro
340     345     350
Ile Ile Thr Ala Arg Pro Glu Leu Met Val His Glu Leu Thr Pro Gln
355     360     365
Ala Ile Glu Lys Gly Leu Glu Trp Ala Asp Val Val Val Ile Gly Pro
370     375     380
Gly Leu Gly Gln Gln Glu Trp Gly Lys Gln Ala Leu Gln Lys Ala Glu
385     390     395     400
Asn Phe Arg Lys Pro Met Leu Trp Asp Ala Asp Ala Leu Asn Leu Leu
405     410     415
Ala Ile Asn Pro Asp Lys Arg His Asn Arg Ile Leu Thr Pro His Pro
420     425     430
Gly Glu Ala Ala Arg Leu Leu Asn Cys Ser Val Ala Glu Ile Glu Ser
435     440     445

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Asp Arg Leu Leu Ser Ala Gln Arg Leu Val Lys Arg Tyr Gly Gly Val
 450          455          460
Ala Val Leu Lys Gly Ala Gly Thr Val Ile Ala Ser Asp Asp Ala Met
 465          470          475          480
Gly Ile Val Asp Ala Gly Asn Ala Gly Met Ala Ser Gly Gly Met Gly
          485          490          495
Asp Val Leu Ser Gly Ile Ile Gly Ala Leu Leu Gly Gln Lys Leu Pro
          500          505          510
Leu Tyr Asp Ala Ala Cys Ala Gly Cys Val Ala His Gly Thr Ala Ala
          515          520          525
Asp Arg Leu Ala Ala Arg Tyr Gly Thr Arg Gly Met Leu Ala Thr Asp
          530          535          540
Leu Phe Cys Thr Leu Arg Arg Val Val Asn Pro Asp Val Ile Asp Val
 545          550          555          560
Glu Asn Asp

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<210> 6423
<211> 75
<212> PRT
<213> Enterobacter cloacae

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<220>
<221> UNSURE
<222> (12)

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<400> 6423
Phe Ile Ser Ser Cys Arg Thr Arg Lys Ser Arg Xaa Phe Met Gly Ile
 1          5          10          15
Arg Asp Tyr Phe Ala Asn Asp Ala Ile Cys Leu Val Glu Trp Pro Gln
          20          25          30
Gln Gly Ala Gly Val Leu Pro Asp Pro Asp Val Glu Ile His Leu Asp
          35          40          45
Tyr Gln Ala Gln Gly Arg Glu Ala Arg Ile Ser Ala Val Ser Ser Ser
          50          55          60
Gly Cys Ser Leu Leu Ala Arg Leu Ala Gly
 65          70          75

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<210> 6424
<211> 318
<212> PRT
<213> Enterobacter cloacae

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<400> 6424
Asn Met Thr Asp Val Ser Lys Ala Ser Leu Pro Lys Ala Ile Phe Leu
 1          5          10          15
Met Gly Pro Thr Ala Ser Gly Lys Thr Ala Leu Ala Ile Glu Leu Arg
          20          25          30
Lys Val Leu Pro Val Glu Leu Ile Ser Val Asp Ser Ala Leu Ile Tyr
          35          40          45
Arg Gly Met Asp Ile Gly Thr Ala Lys Pro Asn Ala Asp Glu Leu Arg
          50          55          60
Ala Ala Pro His Arg Leu Leu Asp Ile Leu Asp Pro Ala Gln Ala Tyr
 65          70          75          80
Ser Ala Ala Asp Phe Arg Arg Asp Ala Leu Ala Glu Met Ala Glu Ile
          85          90          95
Thr Ala Ala Gly Arg Ile Pro Leu Leu Val Gly Gly Thr Met Leu Tyr
          100          105          110
Phe Lys Ala Leu Leu Glu Gly Leu Ser His Leu Pro Ser Ala Asp Pro
          115          120          125
Glu Val Arg Ala Lys Ile Glu Arg Gln Ala Ala Glu Gln Gly Trp Asp

```

```

      130              135              140
Val Leu His Arg Gln Leu Glu Glu Ile Asp Pro Val Ala Ala Arg
145              150              155
Ile His Pro Asn Asp Pro Gln Arg Leu Ser Arg Ala Leu Glu Val Phe
      165              170              175
Phe Ile Ser Gly Lys Thr Leu Thr Glu Leu Thr Gln Thr Ser Gly Asp
      180              185              190
Ala Leu Pro Tyr Gln Val His Gln Phe Ala Ile Ala Pro Ala Ser Arg
      195              200              205
Glu Leu Leu His Gln Arg Ile Glu Gln Arg Phe His Gln Met Leu Ala
210              215              220
Ser Asp Phe Glu Ala Glu Val Arg Ala Leu Phe Ala Arg Gly Asp Leu
225              230              235
His Thr Asp Met Pro Ser Ile Arg Cys Val Gly Tyr Arg Gln Met Trp
      245              250              255
Ser Tyr Leu Glu Gly Glu Ile Ser Tyr Asp Glu Met Val Tyr Arg Gly
      260              265              270
Val Cys Ala Thr Arg Gln Leu Ala Lys Arg Gln Ile Thr Trp Leu Arg
      275              280              285
Gly Trp Lys Gly Val His Trp Leu Asp Ser Glu Lys Pro Gln Gln Ala
290              295              300
Leu Asn Glu Val Ile Glu Val Ile Gly Asp Ile Ala Asp
305              310              315

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<210> 6425

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 6425

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Arg Gly Leu Arg Leu Phe Asp Arg Tyr Asp Ala Gly Glu Gln Ala Val
1              5              10              15
Leu Val His Ile Tyr Phe Ser Gln Asp Lys Asp Met Glu Asp Leu Gln
      20              25              30
Glu Phe Glu Ser Leu Val Ser Ser Ala Gly Val Glu Ala Met Gln Val
      35              40              45
Ile Thr Gly Ser Arg Lys Ala Pro His Pro Lys Tyr Phe Val Gly Glu
      50              55              60
Gly Lys Ala Val Lys Ile Ala Asp Ala Val Lys Ala Thr Gly Ala Ser
65              70              75              80
Val Val Leu Phe Asp His Ala Leu Ser Pro Ala Gln Glu Arg Asn Leu
      85              90              95
Glu Ala Leu Cys Glu Cys Arg Val Ile Asp Arg Thr Gly Leu Ile Leu
      100              105              110
Asp Ile Phe Ala Gln Arg Ala Arg Thr His Glu Gly
      115              120

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<210> 6426

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 6426

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Arg Val Met Pro Arg Leu Ser Ala Ala Ser Phe Ser Ala Arg Arg Arg
1              5              10              15
Ser Ser Ala Cys Gln Met Glu Cys Gly Ile Leu Ala Arg Phe Phe Phe
      20              25              30
Thr Val Trp Ser Val Met Ser Gln Pro Leu Asp Leu Asn Glu Leu Ala
      35              40              45
Gln Lys Ile Lys Gln Trp Gly Ala Glu Leu Gly Phe Gln Lys Val Gly
      50              55              60

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Ile Thr Asp Thr Asp Leu Ser Ala Ser Glu Pro Lys Leu Gln Ala Trp
 65 70 75 80
 Leu Asp Lys Gln Tyr His Gly Glu Met Glu Trp Ile Ala Arg His Gly
 85 90 95
 Met Met Arg Ala Arg Pro His Glu Leu Leu Pro Gly Thr Leu Arg Val
 100 105 110
 Ile Ser Val Arg Met Asn Tyr Leu Pro Ala Asn Ala Ala Phe Ala Arg
 115 120 125
 Thr Leu Lys Asn Pro Ser Leu Gly Tyr Val Ser Arg Tyr Ala Leu Gly
 130 135 140
 Arg Asp Tyr His Lys Leu Leu Arg Asn Arg Leu Lys Lys Leu Gly Glu
 145 150 155 160
 Thr Ile Gln Gln His Cys Val Ser Leu Asn Phe Arg Pro Phe Val Asp
 165 170 175
 Ser Ala Pro Ile Leu Glu Arg Pro Ile Ala Glu Lys Ala Gly Leu Gly
 180 185 190
 Trp Thr Gly Lys His Ser Leu Ile Leu Ser Arg Asp Ala Gly Ser Phe
 195 200 205
 Phe Phe Leu Gly Glu Leu Leu Ile Asp Leu Pro Leu Pro Val Asp Ser
 210 215 220
 Pro Val Glu Glu Gly Cys Gly Arg Cys Val Ala Cys Met Thr Ile Cys
 225 230 235 240
 Pro Thr Gly Ala Ile Val Glu Pro Tyr Thr Val Asp Ala Arg Arg Cys
 245 250 255
 Ile Ser Tyr Leu Thr Ile Glu Leu Glu Gly Ala Ile Pro Glu Glu Phe
 260 265 270
 Arg Pro Leu Ile Gly Asn Arg Ile Tyr Gly Cys Asp Asp Cys Gln Leu
 275 280 285
 Ile Cys Pro Trp Asn Arg Tyr Ser Gln Leu Thr Asp Glu Glu Asp Phe
 290 295 300
 Ser Pro Arg Lys Ala Leu His Ala Pro Gln Leu Ile Glu Leu Phe Ala
 305 310 315 320
 Trp Ser Glu Ala Trp Phe Leu Lys Val Thr Glu Gly Ser Ala Ile Arg
 325 330 335
 Arg Ile Gly His Leu Arg Trp Leu Arg Asn Val Ala Val Ala Leu Gly
 340 345 350
 Asn Ala Pro Trp Asp Glu Ala Asn Leu Gln Ala Leu Glu Ser Arg Arg
 355 360 365
 Gly Glu His Pro Leu Leu Asp Glu His Ile Glu Trp Ala Ile Ala Gln
 370 375 380
 Gln Ile Glu Lys Arg Asn Ala Gly Val Val Glu Val Gln Leu Pro Lys
 385 390 395 400
 Lys Gln Arg Leu Val Arg Val Ile Glu Lys Gly Leu Pro Arg Asp Val
 405 410 415

<210> 6427

<211> 91

<212> PRT

<213> *Enterobacter cloacae*

<400> 6427

Arg Leu Asp Gly Leu Trp Gln Leu Val Gly Phe Tyr Leu Gly Trp Leu
 1 5 10 15
 Gly Gly Glu Gly Lys Gly Arg Ala Leu Gly Val Gly Glu Val Lys Phe
 20 25 30
 Thr Gly Gln Val Leu Pro Thr Ala Lys Lys Val Thr Tyr Arg Ile His
 35 40 45
 Phe Lys Arg Ile Val Asn Arg Arg Leu Ile Met Gly Leu Ala Asp Gly
 50 55 60

Glu Val Leu Val Asp Gly Arg Leu Ile Tyr Thr Ala Asn Asp Leu Lys
 65 70 75 80
 Val Gly Leu Phe Gln Asp Thr Ser Ala Phe
 85 90

<210> 6428

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6428

Ile Gly Ile Val Ile Ala Arg Val Ser His Gln Leu Ala Val Glu
 1 5 10 15
 Val Asp Asn Ala Arg Gly His Ile Ala Asp Glu Arg Thr Val Val Gly
 20 25 30
 Asp Glu Asp Asn Gly Ala Val Lys Gly Phe Gln Glu Pro Phe Gln Pro
 35 40 45
 Val Asn Arg Phe Asp Ile Gln Val Val Arg Arg Phe Val Gln Gln Gln
 50 55 60
 His Leu Arg Pro Ala His Gln Gly Thr Ala Gln Arg Arg Phe Thr Gln
 65 70 75 80
 Pro Ala Ala Gly Glu Arg Arg Gln Leu His Ile Arg Phe Gln Ala Lys
 85 90 95
 Leu Gly Gln His Phe Ile Asn Ala Val Phe Gln Leu Pro Gln Thr Val
 100 105 110
 Val Ile Glu His Leu Leu His Phe Cys Gln Leu Val Glu Ile Leu Val
 115 120 125
 Ala Arg Val Arg His Asp Gln Met Arg Asn Leu Val Val Thr Leu Glu
 130 135 140
 Val Phe Arg Leu Leu
 145 150

<210> 6429

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 6429

Val Thr Ser Leu Pro Arg Ser Arg Ser Thr Met Arg Val Ala Ile Leu
 1 5 10 15
 Arg Met Asn Glu Arg Ser Trp Glu Met Lys Ile Met Val Pro Leu Lys
 20 25 30
 Val Phe Arg Asn Pro Ser Ser Gln Ser Ile Ala Ser Ile Ser Arg Trp
 35 40 45
 Phe Val Gly Ser Ser Ser Ser Thr Leu Gly Pro Leu Thr Arg Ala
 50 55 60
 Arg Pro Ser Ala Ala Leu Arg Ser Gln Pro Pro Glu Ser Ala Asp Ser
 65 70 75 80
 Ser Ile Ser Ala Ser Arg Pro Ser Trp Ala Ser Thr Ser Leu Met Arg
 85 90 95
 Phe Ser Ser Cys His Arg Pro Trp
 100 105

<210> 6430

<211> 419

<212> PRT

<213> Enterobacter cloacae

<400> 6430

Ser Met Cys Asp Gln His His Ala Asp Arg His Ile Leu Cys Ser Gln
 1 5 10 15

Cys Asp Met Leu Val Ala Leu Pro Glu Leu Gly His Gly His Lys Ala
 20 25 30
 Ala Cys Pro Arg Cys Gly Ala Thr Leu Thr Thr Glu Trp Asp Ala Pro
 35 40 45
 Arg Gln Arg Pro Thr Ala Tyr Ala Leu Ala Ala Leu Phe Met Leu Leu
 50 55 60
 Leu Ser Asn Leu Phe Pro Phe Ile Tyr Met Lys Val Gly Gly Met Thr
 65 70 75 80
 Ser Gln Val Asp Leu Leu Glu Ile Pro Gly Val Met Phe Ser Glu Asp
 85 90 95
 Tyr Ala Ser Leu Gly Thr Phe Phe Leu Leu Phe Val Gln Ile Val Pro
 100 105 110
 Ala Phe Cys Leu Val Val Ile Leu Leu Val Asn Arg Val Arg Met
 115 120 125
 Pro Thr Val Leu Lys Ile Lys Leu Ala Arg Ile Leu Phe Gln Leu Lys
 130 135 140
 Ser Trp Gly Met Ala Glu Ile Phe Leu Ala Gly Ile Leu Val Ser Phe
 145 150 155 160
 Val Lys Leu Met Ala Tyr Gly Asp Val Gly Ile Gly Ser Ser Phe Ile
 165 170 175
 Pro Trp Cys Leu Tyr Cys Val Leu Gln Leu Arg Ala Phe Gln Cys Val
 180 185 190
 Asp Arg Arg Trp Ala Trp Asp Asp Ile Ala Pro Ala Pro Thr Leu Ser
 195 200 205
 Gln Thr Val Lys Val Gly Val Pro Gly Ile Arg Gln Gly Leu Arg Ser
 210 215 220
 Cys Ser Cys Cys Thr Ala Val Leu Pro Ala Asp Val Glu Val Cys Pro
 225 230 235 240
 Arg Cys Glu Thr Lys Gly His Val Arg Arg Lys Asn Ser Leu Gln Trp
 245 250 255
 Thr Met Ala Leu Leu Val Thr Ser Val Met Leu Tyr Leu Pro Ala Asn
 260 265 270
 Ile Leu Pro Ile Met Ile Thr Asp Leu Leu Gly Asp Arg Met Pro Ser
 275 280 285
 Thr Ile Leu Ala Gly Val Ile Leu Leu Trp Ser Glu Gly Ser Tyr Pro
 290 295 300
 Val Ala Gly Val Ile Phe Leu Ala Ser Ile Met Val Pro Thr Leu Lys
 305 310 315 320
 Met Ile Ala Ile Ala Trp Leu Cys Trp Asp Ala Lys Gly His Gly Lys
 325 330 335
 Arg Asp Ser Glu Arg Met His Leu Ile Tyr Glu Val Val Glu Phe Val
 340 345 350
 Gly Arg Trp Ser Met Ile Asp Val Phe Val Ile Ala Val Leu Ser Ala
 355 360 365
 Leu Val Arg Met Gly Gly Leu Met Ser Ile Tyr Pro Ala Met Gly Ala
 370 375 380
 Leu Met Phe Ala Leu Val Val Ile Met Thr Met Phe Ala Ala Met Thr
 385 390 395 400
 Phe Asp Pro Arg Leu Ser Trp Asp Arg Glu Pro Asp Ser Ser His Glu
 405 410 415
 Glu Glu

<210> 6431

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6431

Pro Ser Thr Leu Val Tyr Arg Gly Ile Val Ser Pro Ile Gln Ala Met
 1 5 10 15

Arg Lys Ser Lys Ser Met Glu Asn Lys Ser Gly Glu Ala Lys Val Gln
 20 25 30
 Lys Val Arg Asn Trp Ser Pro Val Trp Ile Phe Pro His Arg Asp Arg
 35 40 45
 Ala Asp Arg Cys Met Asp Pro Val Leu Ser Leu Gln Pro Ser Gly Thr
 50 55 60
 Gly Ser His Ala Asn Tyr His Gln Cys Arg Gly Asp
 65 70 75

<210> 6432

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 6432

Glu Gly Glu Thr Met Lys Lys Trp Leu Ile Ile Ala Gly Ala Leu Val
 1 5 10 15
 Leu Thr Ala Cys Ser Phe Gly Ser Asp Asn Lys Ser Tyr Tyr Gln Leu
 20 25 30
 Pro Leu Ser Ala Gln Ser Gly Ala Gln Ser Ser Thr Ser Gln Gly Ser
 35 40 45
 Arg Leu Leu Trp Val Glu Gln Val Ala Val Pro Asp Tyr Leu Ala Gly
 50 55 60
 Asn Gly Val Val Tyr Gln Thr Ser Asp Val Gln Tyr Val Ile Ala Asn
 65 70 75 80
 Asn Asn Leu Trp Ala Ser Pro Leu Asp Gln Gln Leu Arg Asn Thr Leu
 85 90 95
 Val Ala Asn Leu Ser Ser Gln Leu Pro Gly Trp Val Val Ala Ser Gln
 100 105 110
 Pro Leu Gly Ser Asp Gln Asp Thr Leu Asn Val Asn Val Thr Gly Phe
 115 120 125
 His Gly Arg Tyr Asp Gly Ala Val Val Ile Ser Gly Glu Trp Leu Leu
 130 135 140
 Asn His Gln Gly Gln Leu Ile Lys Arg Pro Phe His Leu Glu Leu Lys
 145 150 155 160
 Gln Gln Lys Asp Gly Tyr Asp Glu Met Val Lys Val Leu Ala Gln Gly
 165 170 175
 Trp Ala Gln Glu Ser Ala Ala Ile Ala Arg Glu Ile Ser Arg Leu Pro
 180 185 190

<210> 6433

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 6433

Arg Val Val Gln Gly Gly Val His Phe Glu Gly Asp Thr Arg Leu Ile
 1 5 10 15
 Tyr Gln Ser Leu Met Trp Ser Arg Leu Ala Ser Arg Ile Met Leu Pro
 20 25 30
 Met Lys Glu Cys Lys Val Tyr Ser Asp Leu Asp Leu Tyr Thr Gly Val
 35 40 45
 Gln Met Ile Asp Trp Thr Glu Ile Phe Thr Pro Asp Ala Thr Phe Ala
 50 55 60
 Val His Phe Asn Gly Val Asn Asp Glu Ile Arg Asn Ser Gln Tyr Gly
 65 70 75 80
 Ala Leu Arg Val Lys Asp Ala Ile Val Asp Cys Phe Thr Arg Arg Asn
 85 90 95
 Lys Glu Arg Pro Asn Val Asp Arg Glu Asn Pro Asp Leu Arg Ile Asn

100 105 110
 Val Trp Leu Asn Gly Asp Thr Ala Ser Ile Ser Leu Asp Leu Ser Gly
 115 120 125
 Ala Gly Leu His Leu Arg Gly Tyr Arg Asp Arg Thr Gly Met Ala Pro
 130 135 140
 Ile Lys Glu Thr Leu Ala Ala Ile Val Met Arg Ser Gly Trp Gln
 145 150 155 160
 Pro Gly Thr Pro Leu Leu Asp Pro Met Cys Gly Ser Gly Thr Leu Leu
 165 170 175
 Ile Glu Ala Ala Met Leu Ala Thr Asp Arg Ala Pro Gly Leu His Arg
 180 185 190
 Gly His Trp Gly Phe Lys Gly Trp Ala Gln His Asp Glu Ala Ile Trp
 195 200 205
 Lys Glu Val Lys Asp Asp Ala Gln Thr Arg Ala Arg Lys Gly Leu Ala
 210 215 220
 Glu Tyr Thr Ser His Phe Tyr Gly Ser Asp Ser Asp Ala Arg Val Ile
 225 230 235 240
 Glu Arg Ala Arg Ser Asn Ala Arg Arg Ala Gly Ile Gly Glu Leu Val
 245 250 255
 Thr Phe Glu Val Lys Asp Val Ala Asn Leu Thr Asn Pro Leu Pro Lys
 260 265 270
 Gly Pro Tyr Gly Thr Val Ile Ser Asn Pro Pro Tyr Gly Glu Arg Leu
 275 280 285
 Asp Ser Glu Pro Ala Leu Ile Ala Leu His Ser Leu Leu Gly Arg Asn
 290 295 300
 Met Lys Ala His Phe Gly Gly Trp Asn Leu Ser Leu Phe Ser Ala Ser
 305 310 315 320
 Pro Glu Leu Leu Ser Cys Leu Gln Leu Arg Ala Asp Arg Gln Phe Lys
 325 330 335
 Ala Lys Asn Gly Pro Leu Asp Cys Val Gln Lys Asn Tyr His Leu Ala
 340 345 350
 Glu Ile Ala Ala Asp Ser Lys Pro Ser Gly Val Ala Glu Asp Tyr Ala
 355 360 365
 Asn Arg Leu Arg Lys Asn Leu Lys Lys Phe Glu Lys Trp Ala Lys Gln
 370 375 380
 Glu Gly Ile Glu Cys Tyr Arg Leu Tyr Asp Ala Asp Leu Pro Glu Tyr
 385 390 395 400
 Asn Val Ala Val Asp Arg Tyr Ala Asp Trp Val Val Val Gln Glu Tyr
 405 410 415
 Ala Pro Pro Lys Thr Ile Asp Ala Gln Lys Ala Arg Gln Arg Met Leu
 420 425 430
 Asp Val Ile Ala Ala Thr Phe Ala Val Leu Gly Ile Ser Pro Asn Lys
 435 440 445
 Leu Val Leu Lys Thr Arg Glu Arg Gln Lys Gly Lys Asn Gln Tyr Gln
 450 455 460
 Lys Met Gly Glu Lys Gly Asp Phe Ile Glu Val Gly Glu Tyr Asn Ala
 465 470 475 480
 Arg Leu Trp Val Asn Leu Thr Asp Tyr Leu Asp Thr Gly Leu Phe Leu
 485 490 495
 Asp His Arg Ile Ala Arg Arg Met Leu Gly Gln Met Ser Lys Gly Lys
 500 505 510
 Asp Phe Leu Asn Leu Phe Ser Tyr Thr Gly Ser Ala Ser Val His Ala
 515 520 525
 Gly Leu Gly Gly Ala Arg Ser Thr Thr Thr Val Asp Met Ser Arg Thr
 530 535 540
 Tyr Leu Glu Trp Ala Glu Arg Asn Leu Arg Leu Asn Gly Leu Thr Gly
 545 550 555 560
 Arg Gln His Arg Leu Leu Gln Ala Asp Val Leu Gly Trp Leu Arg Asp
 565 570 575
 Thr Asp Glu Gln Phe Asp Leu Ile Phe Ile Asp Pro Pro Thr Phe Ser
 580 585 590

Asn Ser Lys Arg Met Glu Asp Ser Phe Asp Val Gln Arg Asp His Leu
 595 600 605
 Arg Leu Met Thr Asp Leu Lys Arg Leu Leu Arg Lys Gly Gly Thr Ile
 610 615 620
 Met Phe Ser Asn Asn Lys Arg Gly Phe Arg Met Asp His Asp Gly Leu
 625 630 635 640
 Ala Glu Leu Gly Leu Lys Ala Gln Glu Ile Ser Gln Lys Thr Leu Ser
 645 650 655
 Gln Asp Phe Ala Arg Asn Arg Gln Ile His Asn Cys Trp Leu Ile Ser
 660 665 670
 Ala Val
 675

<210> 6434

<211> 636

<212> PRT

<213> Enterobacter cloacae

<400> 6434

Met Ser Leu Ile Ser Met His Gly Ala Trp Leu Ser Phe Ser Asp Ser
 1 5 10 15
 Pro Leu Leu Asp Asn Ala Glu Leu His Ile Glu Asp Asn Glu Arg Val
 20 25 30
 Cys Leu Val Gly Arg Asn Gly Ala Gly Lys Ser Thr Leu Met Lys Ile
 35 40 45
 Leu Asn Arg Glu Gln Gly Leu Asp Asp Gly Arg Ile Val Tyr Glu Gln
 50 55 60
 Asp Leu Ile Val Ser Arg Leu Gln Gln Asp Pro Pro Arg Asn Val Thr
 65 70 75 80
 Gly Ser Val Tyr Asp Phe Val Ala Glu Gly Ile Ser Glu Gln Ala Glu
 85 90 95
 Tyr Leu Lys Arg Tyr His Glu Ile Ser His Leu Val Met Thr Asp Pro
 100 105 110
 Ser Asp Lys Asn Leu Asn Glu Leu Ala Lys Val Gln Glu Met Leu Asp
 115 120 125
 His His Gly Leu Trp Gln Leu Glu Asn Arg Ile Asn Glu Val Leu Ala
 130 135 140
 Gln Leu Gly Leu Glu Ala Asp Met Glu Leu Ser Ala Leu Ser Gly Gly
 145 150 155 160
 Trp Leu Arg Lys Ala Ala Leu Gly Arg Ala Leu Val Ser Gly Pro Lys
 165 170 175
 Val Leu Leu Leu Asp Glu Pro Thr Asn His Leu Asp Ile Glu Ala Ile
 180 185 190
 Asp Trp Leu Glu Gly Phe Leu Lys Thr Phe Asn Gly Thr Ile Ile Phe
 195 200 205
 Ile Ser His Asp Arg Ser Phe Ile Arg Asn Met Ala Thr Arg Ile Val
 210 215 220
 Asp Leu Asp Arg Gly Lys Leu Val Thr Tyr Pro Gly Asp Tyr Asp Thr
 225 230 235 240
 Tyr Leu Leu Glu Lys Glu Glu Asn Leu Arg Val Glu Glu Leu Gln Asn
 245 250 255
 Ala Glu Phe Asp Arg Lys Leu Ala Gln Glu Glu Val Trp Ile Arg Gln
 260 265 270
 Gly Ile Lys Ala Arg Arg Thr Arg Asn Glu Gly Arg Val Arg Ala Leu
 275 280 285
 Lys Ala Met Arg Arg Glu Arg Ser Glu Arg Arg Glu Val Met Gly Ser
 290 295 300
 Ala Lys Met Gln Val Glu Glu Ala Ser Arg Ser Gly Lys Ile Val Phe
 305 310 315 320
 Glu Met Glu Asn Val Asn Tyr Ser Val Asp Gly Lys Val Leu Val Asn
 325 330 335

Asp Phe Ser Ala Gln Val Gln Arg Gly Asp Lys Ile Ala Leu Ile Gly
 340 345 350
 Pro Asn Gly Cys Gly Lys Thr Thr Leu Leu Lys Leu Met Leu Gly Gln
 355 360 365
 Leu Gln Ala Asp Ser Gly Arg Ile His Cys Gly Thr Lys Leu Glu Val
 370 375 380
 Ala Tyr Phe Asp Gln His Arg Ala Glu Leu Asp Pro Asp Arg Thr Val
 385 390 395 400
 Met Asp Asn Leu Ala Glu Gly Lys Gln Glu Val Met Val Asn Gly Lys
 405 410 415
 Pro Arg His Val Leu Gly Tyr Leu Gln Asp Phe Leu Phe His Pro Lys
 420 425 430
 Arg Ala Met Thr Pro Val Arg Ala Leu Ser Gly Gly Glu Arg Asn Arg
 435 440 445
 Leu Leu Leu Ala Arg Leu Phe Leu Lys Pro Ser Asn Leu Leu Ile Leu
 450 455 460
 Asp Glu Pro Thr Asn Asp Leu Asp Val Glu Thr Leu Glu Leu Leu Glu
 465 470 475 480
 Glu Leu Ile Asp Gly Tyr Gln Gly Thr Val Met Leu Val Ser His Asp
 485 490 495
 Arg Gln Phe Val Asp Asn Thr Val Thr Glu Cys Trp Ile Phe Glu Gly
 500 505 510
 Glu Gly Arg Ile Gly Gln Tyr Val Gly Gly Tyr His Asp Ala Arg Gly
 515 520 525
 Gln Gln Ser Gln Ser Leu Ala Gln Lys Gln Ala Lys Thr Lys Asn Val
 530 535 540
 Ala Glu Pro Val Val Ala Lys Ala Glu Thr Val Lys Lys Ser Pro Ala
 545 550 555 560
 Lys Met Ser Tyr Asn Leu Gln Arg Glu Leu Glu Gly Leu Pro Gln Arg
 565 570 575
 Leu Glu Glu Leu Glu Ala Ala Leu Glu Ala Leu Gln Ile Gln Val Ala
 580 585 590
 Asp Ala Ser Phe Phe Thr Gln Pro His Asp Tyr Thr Gln Lys Val Leu
 595 600 605
 Ala Glu Leu Ser Gln Ala Glu Gln Ala Leu Glu Glu Ala Phe Glu Arg
 610 615 620
 Trp Glu Tyr Leu Glu Ser Leu Lys Asn Gly Ala
 625 630 635

<210> 6435

<211> 552

<212> PRT

<213> Enterobacter cloacae

<400> 6435

Gly Arg Val Arg Ala Trp Lys Ile Arg Val Glu Arg Leu Lys Cys Arg
 1 5 10 15
 Arg Ser Glu Thr Gly Arg Arg Cys Gly Phe Ser Pro Ile Val Thr Ala
 20 25 30
 Leu Ile Gly Ala Trp Ile Leu Phe Tyr His Tyr Ser His Gln Gly Pro
 35 40 45
 Glu Val Thr Leu Ile Thr Thr Asn Ala Glu Gly Ile Glu Gly Gly Lys
 50 55 60
 Thr Thr Ile Lys Ser Arg Ser Val Asp Val Gly Val Val Glu Ser Ala
 65 70 75 80
 Thr Leu Thr Asp Asp Leu Thr His Val Glu Ile Lys Ala Arg Leu Asn
 85 90 95
 Ala Gly Met Glu Lys Leu Leu His Glu Asp Ser Val Phe Trp Val Val
 100 105 110
 Lys Pro Gln Val Gly Arg Glu Gly Ile Ser Gly Leu Gly Thr Leu Leu
 115 120 125

Ser Gly Ala Tyr Ile Glu Leu Gln Pro Gly Asn Lys Gly Ala Gln Pro
 130 135 140
 Ala Asn Tyr Gln Leu Leu Asp Ser Pro Pro Leu Ala Pro Pro Asp Ala
 145 150 155 160
 Lys Gly Ile Arg Val Ile Leu Asp Ser Lys Lys Ala Gly Gln Leu Ser
 165 170 175
 Pro Gly Asp Pro Val Leu Phe Arg Gly Tyr Arg Val Gly Ser Val Glu
 180 185 190
 Thr Ser Thr Phe Asp Pro Gln Lys Arg Thr Ile Ser Tyr Gln Leu Phe
 195 200 205
 Ile Asn Ala Pro Asn Asp Arg Leu Val Thr Ser Asn Val Arg Phe Trp
 210 215 220
 Lys Asp Ser Gly Ile Ala Val Asp Leu Thr Ser Ala Gly Met Arg Val
 225 230 235 240
 Glu Met Gly Ser Leu Thr Thr Leu Phe Gly Gly Gly Val Ser Phe Asp
 245 250 255
 Val Pro Glu Gly Ile Asp Leu Gly Gln Pro Val Ala Glu Lys Thr Ala
 260 265 270
 Phe Arg Leu Phe Asp Asp Gln Lys Ser Ile Gln Asp Ala Leu Tyr Thr
 275 280 285
 Asp His Ile Asp Tyr Leu Met Phe Phe Lys Asp Ser Val Arg Gly Leu
 290 295 300
 Gln Pro Gly Ala Pro Val Glu Phe Arg Gly Ile Arg Leu Gly Thr Val
 305 310 315 320
 Gly Gln Val Pro Tyr Phe Val Pro Gly Leu Lys Gln Met Leu Asp Asp
 325 330 335
 Asp Tyr Arg Ile Pro Val Leu Ile Arg Ile Glu Pro Glu Arg Leu Ile
 340 345 350
 Asn Gln Ile Gly Glu Asp Gln Asp Ile Gly Glu His Ile Ser Asp Leu
 355 360 365
 Leu Asn Arg Gly Leu Arg Gly Ser Leu Lys Thr Gly Asn Leu Val Thr
 370 375 380
 Gly Ala Leu Tyr Val Asp Met Asp Phe Tyr Pro Lys Ala Pro Pro Met
 385 390 395 400
 Thr Gly Val Arg Glu Phe Gly Gly Tyr Lys Ile Ile Pro Thr Val Ser
 405 410 415
 Ser Gly Leu Ala Gln Ile Gln Gln Arg Leu Met Glu Thr Leu Asp Lys
 420 425 430
 Ile Asn Asn Leu Pro Leu Asn Pro Met Leu Glu Ala Ala Thr Gly Ser
 435 440 445
 Leu His Gln Ser Gln Ala Thr Met Leu Arg Leu Gln Thr Thr Leu Asp
 450 455 460
 Asn Ile Asn Lys Ile Thr Ala Asn Gln Ser Met Gln Gln Leu Pro Gln
 465 470 475 480
 Asp Met Gln Lys Thr Leu Arg Glu Leu Asn Arg Ser Met Gln Gly Phe
 485 490 495
 Gln Pro Gly Ser Ala Ala Tyr Asn Lys Met Val Ala Asp Met Gln Arg
 500 505 510
 Leu Asp Gln Val Leu Arg Glu Leu Gln Pro Val Leu Lys Thr Leu Asn
 515 520 525
 Glu Lys Ser Asn Ala Leu Val Phe Glu Ala Lys Asp Lys Lys Asp Pro
 530 535 540
 Glu Pro Lys Arg Ala Lys Gln
 545 550

<210> 6436

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6436

Val Phe Tyr Phe Ser Asn Thr Thr Arg Cys Phe Tyr Cys Asp Glu Asn
 1 5 10 15
 Asn Ile Ser Arg Pro Glu Asp Ala Ile Glu Val Ser Glu Gln Asp Val
 20 25 30
 His Lys Tyr Ser Gly Gln Asn Pro Gln Trp Met Leu Pro Asn Val Ser
 35 40 45
 Glu Gly Gly Lys Met Glu Trp Ile Asp Asp Ile Ser Ile Asp Lys Arg
 50 55 60
 Thr Ala Arg Tyr Glu Ile Asn Lys Gln Glu Lys Glu Arg Leu Leu Asn
 65 70 75 80
 Arg Thr Ile Lys Glu Arg Tyr Thr Leu Glu Val Ile Gly Gln Thr Ser
 85 90 95
 Val Leu Ser Val Glu Gln Ser Thr Met Met Gln Ser Leu Ser Ala Tyr
 100 105 110
 Ile Asn Glu Leu Asn Gln Val Asp Leu Tyr Ala Asp Asn Pro Val Trp
 115 120 125
 Pro Ile His Pro
 130

<210> 6437

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 6437

Glu Val Asn Met Thr Thr Asp Phe Leu His Gly Val Arg Thr Ile Glu
 1 5 10 15
 Tyr Asp Asp Gly Thr Glu Glu Ile Ser Thr Val Thr Val Ser Val Ile
 20 25 30
 Gly Ile Val Gly Thr Ala Pro Asp Ser Thr Ala Ala Thr Cys Ala Ser
 35 40 45
 Leu Val Thr Gly Ser Glu Leu Thr Asn Asn Lys Ile Thr Trp Gln Ala
 50 55 60
 Glu Asp Ala Gly Ile Lys Gly Asn Ser Phe Ser Val Glu Ile Val Pro
 65 70 75 80
 Gly Asp Val Tyr Pro Ala Asn Thr Lys Trp Gly Gly Asp Val Asn Tyr
 85 90 95
 Ser Thr Ile Tyr His Tyr Ser Ile Lys Pro Asp Gly Ser Leu Lys Leu
 100 105 110
 Ser Val Arg Met Pro Val Asp Ser Asp Gly Lys Lys Leu Met Asn Ala
 115 120 125
 Glu Leu Ile Thr Ser Ile Trp Asp Met Val Pro Pro Leu Asp Asn Tyr
 130 135 140
 Cys Arg Ile Lys Ala Ile Ile Tyr Ser Thr Ser Asn Asp Asn Gly Lys
 145 150 155 160
 Val Met Tyr Met Ser Glu Thr Asn Leu Ala Gly Gly Ala Asp Glu Ala
 165 170 175
 Phe Pro Leu Asn Val Pro Thr Val Ile Ala Gly Ser Thr Thr Lys Ala
 180 185 190
 Ala Lys Leu Gly Ala Thr Gly Thr Leu Pro Ala Asp Ile Asn Asp Ile
 195 200 205
 Phe Asn Gln Thr Arg Ala Leu Ile Val Val Val Arg Val Ala Asp Asp
 210 215 220
 Ala Asp Ala Ser Lys Leu Gln Gln Asn Val Ile Ala Gly Leu Asn Thr
 225 230 235 240
 Leu Pro Ser Ser Gly Gln Leu Asn Glu Val Met Pro Arg Ile Ile Ile
 245 250 255
 Ala Pro Asp Phe Ser Ala Thr Asp Pro Val Ala Val Gln Ile Glu Val
 260 265 270
 Ile Ala Asn Lys Val Arg Gly Val Gly Tyr Ile Asp Ser Pro Ser Phe
 275 280 285

Ala Thr Ala Lys Asp Val Ala Leu Arg Arg Gln Ser Tyr Gly Lys Arg
 290 295 300
 Val Glu Ile Leu Arg Pro Arg Val Phe Thr Thr Ser Ser Ala Gly Ser
 305 310 315 320
 Thr Ser Arg Ala Tyr Ser Ala Ser Ala Ala Gly Leu Arg Cys Pro Ile
 325 330 335
 Asp Asn Lys Lys Gly Phe Trp Trp Ser Lys Ser Asn Gln Gln Ile Met
 340 345 350
 Gly Arg Asp Ser Thr
 355

<210> 6438

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 6438

Thr Arg His Arg Ser Leu Leu Leu Lys Met Trp Pro Cys Ala Gly Arg
 1 5 10 15
 Val Thr Glu Ser Ala Ser Lys Ser Tyr Ala Arg Ala Cys Leu Leu Pro
 20 25 30
 Val Gln Arg Val Ala Arg His Ala His Ile Gln Arg Ala Arg Arg Ala
 35 40 45
 Tyr Val Val Gln Leu Ile Thr Arg Lys Ala Phe Gly Gly Val Ser Pro
 50 55 60
 Ile Asn Lys Ser Trp Gly Val Thr Ala Leu Glu Gln Val Asp Glu Tyr
 65 70 75 80
 Ile Ile Gly Asp Asp Thr Cys Val Val Asn Leu Leu Asn Lys Asn Gln
 85 90 95
 Val Ser Thr Ile Val Arg Arg Ser Gly Phe Lys His Trp Gly Asn Tyr
 100 105 110
 Leu Cys Ser Thr Asp Pro Pro Trp Ala Phe Glu Cys Val Arg Arg Thr
 115 120 125
 Ala Asp Val Ile Glu Asp Ser Ile Ala Asp Thr Val Glu Asn Glu Phe
 130 135 140
 Ile Asp Arg Pro Ile Asp Leu His Leu Gly Asp Asp Ile Ile Glu Ser
 145 150 155 160
 Ile Asn Gly Phe Ile Arg Tyr Leu Phe Asp Ile Gly Ala Ile Asn Gly
 165 170 175
 Gly Lys Ala Trp Leu Asp Pro Glu Leu Asn Thr Lys Glu Ser Leu Ala
 180 185 190
 Gly

<210> 6439

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6439

Lys Gly Ile Lys Met Ala Glu Ala Asn Val Tyr Arg Ala His Ala Leu
 1 5 10 15
 Trp Val Gln Gly Arg Leu Val Cys Gly Cys Glu Ser Tyr Thr Pro Val
 20 25 30
 Asp Met Lys Ile Ile Glu Asp Glu Phe Lys Thr Gly Ser Met Asp Met
 35 40 45
 Ala Met Thr Leu Asp Gly Gly Met Glu Arg Met Gly Ala Ser Phe Lys
 50 55 60
 Val Lys Gly Ser Asp Val Asp Val Met Ser Met Phe Gly Phe Ile Pro
 65 70 75 80
 Gly Val Arg Thr Arg Phe Glu Ile Arg Ser Ala Phe Val Thr Asn Ser

85 90 95
 Gly Glu Thr Ile Ile Arg Lys Asp Phe Tyr Glu Gly Pro Ile Thr Gly
 100 105 110
 Ile Thr Asp Asp Glu Glu Gly Thr Asp Ser Lys Ser Gly Val Gly Gln
 115 120 125
 Thr Val Thr Ile Ala Pro Asn Tyr Phe Lys Arg Ile Gln Gly Asp Lys
 130 135 140
 Glu Ile Tyr Glu Ile His Pro Ala Lys Met Ile Arg Arg Val Asn Gly
 145 150 155 160
 Val Asn Val Leu Gly Glu Ile Ala Ser Gly Leu Lys Ile Tyr
 165 170 175

<210> 6440

<211> 513

<212> PRT

<213> *Enterobacter cloacae*

<400> 6440

Gly Ser Tyr Val Lys Lys Met Ala Ile Ser Gln Asn Phe Arg Ser Thr
 1 5 10 15
 Val Thr Phe Gly Gly Arg Val Asp Pro Ser Phe Arg Arg Gly Ser Asp
 20 25 30
 Glu Leu Lys Gly Ala Ile Lys Glu Ala Gly Gln Ser Val Ser Gln Leu
 35 40 45
 Thr Lys Arg Gln Glu Lys Leu Lys Gln Gln Met Ala Ser Leu Lys Leu
 50 55 60
 Ala Gly Lys Asp Val Ser Ala Leu Ile Lys Gln Tyr Glu Lys Leu Ser
 65 70 75 80
 Arg Gln Ile Val Asn Ala Thr Glu Asp Gln Glu Lys Leu Asn Gln Gln
 85 90 95
 Leu Lys Arg Gln Glu Arg Leu Asp Lys Trp Lys Gly Arg Ala Ala Ala
 100 105 110
 Val Pro Lys Trp Ala Gly Lys Ala Ala Trp Gly Ala Ala Lys Gly Leu
 115 120 125
 Ala Phe Ser Ser Leu Ala Pro Ala Ala Met Phe Ala Gly Ala Ile Gln
 130 135 140
 Met Asn Ser Glu Thr Ser Glu Lys Leu Gly Leu Ala Lys Ser Tyr Gly
 145 150 155 160
 Val Gly Ile Asp Lys Tyr Gly Ala Trp Glu Asn Ile Ala Lys Lys Ala
 165 170 175
 Gly Leu Asn Gly Glu Asn Val Gly Asp Leu Ala Glu Glu Leu Thr Asn
 180 185 190
 Lys Ile Gly Glu Lys Asp Asn Glu Lys Thr Phe Asn Pro Met Leu Ala
 195 200 205
 Gln Ile Asn Leu Ser Lys Arg Arg Met Ala Gly Trp Ser Arg Glu Lys
 210 215 220
 Gln Phe Asp Glu Val Met Ser Arg Ile Ser Arg Met Lys Asp Glu Lys
 225 230 235 240
 Gln Ala Ala Ser Leu Ala Asp Gln Leu Met Gly Gly Glu Ala Asn Lys
 245 250 255
 Ile Met Thr Tyr Met Arg Met Thr Gly Lys Thr Trp Glu Gln Thr Met
 260 265 270
 Ala Lys Ala Lys Lys Ser Asn Leu Leu Thr Gln Glu Gly Ala Glu Gly
 275 280 285
 Ala Ala Arg Ala His Phe Ala Val Thr Asn Leu Trp Gly Ala Ile Thr
 290 295 300
 Ser Gly Leu Ser Asp Thr Leu Gly Lys Ile Gly Gly Glu Leu Glu Pro
 305 310 315 320
 Asp Ile Asn Arg Phe Lys Glu Ser Thr Ile Ser Trp Phe Lys Glu Asn
 325 330 335
 Gln Gly Ala Phe Val Glu Gly Ile Arg Asn Trp Ile Lys Pro Asp Glu

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          340          345          350
Ser Gly Arg Thr Gly Pro Gln Arg Leu Phe Asp Thr Val Lys Lys Phe
          355          360          365
Gly Glu Gly Leu Leu Glu Leu Gly Lys Ile Val Trp Ala Val Ala Lys
          370          375          380
Lys Leu Ala Trp Ile Leu Pro Asp Asp Glu Lys Asn Gln Ala Lys Ile
          385          390          395          400
Asp Glu Phe Val Lys Asn Gly Asn Ser Tyr Glu Gly Ala Lys Ser Leu
          405          410          415
Ala Asp Glu Tyr Gly Leu Glu Asp Trp Phe Lys Glu Asn Tyr Thr Pro
          420          425          430
Glu Lys Val Ala Ala Ala Gln Gln Lys Ala Ala Gly Glu Gly Glu Thr
          435          440          445
Pro Ala Ala Leu Ala Lys Arg Gln Ala Ser Gln Pro Val Gly Tyr Gly
          450          455          460
Asn Tyr Ser Pro Arg Val Glu Ile Asn Val Gln Ala Leu Pro Gly Gln
          465          470          475          480
Ser Ala Glu Glu Val Gly Gln Ser Thr Tyr Ala Ala Phe Lys Ala Gly
          485          490          495
Leu Pro Thr Ala Pro Gly Gly Ser Gly Ala Met Tyr Asp Ile Pro Gly
          500          505          510

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<210> 6441
<211> 73
<212> PRT
<213> Enterobacter cloacae

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<400> 6441
Phe Met Ala Ile Thr Tyr Thr Thr Arg Asp Gly Asp Arg Leu Asp Thr
1          5          10          15
Ile Cys Leu Lys Ile Tyr Gly Lys Thr Gly Lys Thr Thr Glu Val
20          25          30
Leu Tyr Gln Val Ala Asn Tyr Gly Val Val Asp Met Cys Ala Val Phe
35          40          45
Pro Ala Gly Lys Glu Ile Val Leu Pro Glu Ile Ser Ser Glu Pro Ile
50          55          60
Val Glu Ala Thr Gln Leu Trp Glu
65          70

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<210> 6442
<211> 103
<212> PRT
<213> Enterobacter cloacae

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<400> 6442
Arg Ser Val Arg Ala Ala Phe Gln Tyr Asp Tyr Ser Trp Asn Lys Ser
1          5          10          15
Met Ala Arg Ile Ser Gly Ile Tyr Ala Asn Gly Phe Gly Glu Pro Val
20          25          30
Ala Gly Val Cys Ile Leu Leu Thr Ala Arg Ala Thr Ser Ser Gly Val
35          40          45
Val Met Ala Thr Thr Ala Asn Gln Val Thr Gly Glu Asp Gly Ser Tyr
50          55          60
Gly Phe Asp Leu Arg Pro Gly Val Tyr Val Val Thr Ala Asn Gly Leu
65          70          75          80
Tyr Leu Gly Val Ile Thr Val Ser Asp Asp Ser Gln Asp Gly Thr Leu
85          90          95
Asn Asp Tyr Leu Val Ile
100

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<210> 6443
 <211> 302
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6443

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Lys Leu Val Met Val Ile Val Cys His Asn Thr Arg Gln Thr Arg Arg
1      5      10      15
Arg Phe Ile Met Ile Ala Ile Thr Gly Ala Thr Gly Gln Leu Gly Gln
      20      25      30
His Val Ile Glu Glu Leu Leu Lys Thr Val Pro Ala Ser Gln Ile Val
      35      40      45
Ala Ile Val Arg Asn Leu Ala Lys Ala Glu Ala Leu Arg Gln Gln Gly
      50      55      60
Val Val Val Arg Gln Ala Asp Tyr Thr Asp Glu Ala Ala Phe Thr Thr
      65      70      75      80
Ala Leu Asn Gly Val Asp Lys Leu Leu Leu Ile Ser Ser Ser Glu Val
      85      90      95
Gly Gln Arg Ala Val Gln His Gln Asn Val Ile Asn Ala Ala Lys Ala
      100      105      110
Ala Gly Val Lys Phe Ile Ala Tyr Thr Ser Leu Leu His Ala Asp Lys
      115      120      125
Ser Pro Leu Gly Leu His Val Glu His Val Glu Thr Glu Asn Ala Leu
      130      135      140
Ala Ala Ser Gly Val Pro Tyr Ala Leu Leu Arg Asn Gly Trp Tyr Thr
      145      150      155      160
Glu Asn Tyr Leu Ala Ser Ala Pro Pro Ala Leu Glu His Gly Val Phe
      165      170      175
Met Gly Ala Ala Gly Glu Gly Lys Ile Ala Ser Ala Thr Arg Ala Asp
      180      185      190
Tyr Ala Ala Ala Ala Lys Val Ile Ser Glu Glu Gly His Ala Gly
      195      200      205
Lys Val Tyr Glu Leu Ala Gly Asp Asn Ala Trp Thr Leu Ser Glu Leu
      210      215      220
Ala Ala Glu Leu Ser Lys Gln Ser Gly Lys Pro Val Thr Tyr Gln Asn
      225      230      235      240
Leu Ser Glu Ala Asp Phe Ala Ala Ala Leu Lys Gly Val Gly Leu Pro
      245      250      255
Ala Gly Leu Ala Glu Met Leu Ala Asp Ser Asp Thr Gly Ala Ser Lys
      260      265      270
Gly Gly Leu Phe Asp Asp Ser His Thr Leu Ser Lys Leu Ile Gly Arg
      275      280      285
Pro Thr Thr Pro Leu Ala Glu Ser Val Lys Ala Ile Leu
      290      295      300

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<210> 6444
 <211> 281
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6444

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Pro Thr Arg Arg Leu Thr Val Gln Gly Val Pro Glu Gln Phe Thr Asp
1      5      10      15
Glu Arg Asp Ser Ala Arg Phe Arg His Leu Ala Gln Leu Pro Gly Leu
      20      25      30
Glu Leu Tyr His Ala His Ile Ser Asp Tyr Ala Phe Glu Pro His Thr
      35      40      45
His Gly Ala Phe Gly Ile Gly Thr Ile Glu Thr Gly Ala Glu Arg Phe
      50      55      60
Arg Tyr Arg Gly Thr Gln His Leu Ala Ala Glu Lys Ser Val Val Thr

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65 70 75 80
 Met Asn Pro Asp Glu Ile His Thr Gly Glu Ser Ala Thr Glu Gly Gly
 85 90 95
 Trp Arg Tyr Arg Met Val Tyr Ile Glu Pro Asp Leu Leu Glu Glu Val
 100 105 110
 Thr Gly Leu Arg His Trp Trp Phe Ser Asp Val Thr Arg His Asp Pro
 115 120 125
 Leu Arg Ser Gln Gln Ile Gly Gln Leu Ile Tyr Gly Leu Trp His Thr
 130 135 140
 Asp Asp Pro Leu Ala Gln Lys Gly Leu Leu Leu Asp Leu Ile Gln Thr
 145 150 155 160
 Phe Gln Pro Leu Ala His His Ala Pro Val Val Gln Glu Ala Thr His
 165 170 175
 Arg Phe Glu Arg Val Arg Asp Tyr Leu His Asp Asn Tyr Met Arg Ser
 180 185 190
 Leu Thr Leu Asp Glu Leu Ala Asn Val Val Ser Leu Ser Pro Tyr His
 195 200 205
 Phe Gln Arg Gln Phe Lys Ala His Phe His Val Thr Pro His Gln Met
 210 215 220
 Leu Met Ala Ile Arg Leu Trp Arg Ala Lys Ala Phe Leu Thr His Gly
 225 230 235 240
 Met Pro Ala Ala Glu Val Ala Ala Ala Thr Gly Leu Thr Asp Gln Ser
 245 250 255
 His Leu Thr Arg Ala Phe Thr Arg Arg Tyr Gly Ile Thr Pro Val Arg
 260 265 270
 Tyr Gln Lys Gln Val Met Pro Arg
 275 280

<210> 6445

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 6445

Ile Lys Met Asp Gly Lys Met Ile Ser Gly Val Leu Tyr Ala Leu Leu
 1 5 10 15
 Ala Gly Leu Met Trp Gly Leu Ile Phe Val Gly Pro Leu Ile Val Pro
 20 25 30
 Glu Tyr Pro Ala Ile Leu Gln Ser Thr Gly Arg Tyr Leu Ala Leu Gly
 35 40 45
 Leu Ile Ala Val Pro Leu Ala Trp Leu Gly Arg Thr Arg Leu Arg Gln
 50 55 60
 Leu Gly Arg Gln Asp Trp Leu Thr Ala Leu Ala Leu Thr Met Met Gly
 65 70 75 80
 Asn Leu Ile Tyr Tyr Val Cys Leu Ala Ser Ala Ile Gln Arg Thr Gly
 85 90 95
 Ala Pro Val Ser Thr Met Ile Ile Gly Thr Leu Pro Val Val Ile Pro
 100 105 110
 Val Phe Ala Asn Leu Leu Tyr Ser Gln Arg Asp Gly Lys Leu Ala Trp
 115 120 125
 Ser Lys Met Ala Pro Ala Leu Val Cys Ile Ala Val Gly Leu Val Cys
 130 135 140
 Val Asn Ile Ala Glu Leu Arg His Gly Leu Glu Asn Phe Ser Val Trp
 145 150 155 160
 Arg Tyr Gly Ser Gly Ile Phe Leu Ala Phe Ile Ser Val Val Cys Trp
 165 170 175
 Ala Trp Tyr Ala Leu Arg Asn Ala Arg Trp Leu Arg Glu Asn Pro Asp
 180 185 190
 Lys His Pro Met Met Trp Ala Thr Ala Gln Ala Leu Val Thr Leu Pro
 195 200 205
 Val Ser Leu Leu Gly Tyr Val Gly Ala Cys Val Trp Leu Gly Ser Gln

210	215	220
Gln Pro Ala Phe Thr Leu	Pro Phe Gly Pro Arg	Pro Trp Val Phe Val
225	230	235
Gly Leu Met Val Ala Ile Ala Val Leu Cys Ser	Trp Val Gly Ala Leu	240
	245	250
Cys Trp Asn Ile Ala Ser Gln Lys Leu	Pro Thr Val Ile Leu Gly Pro	255
	260	265
Leu Ile Val Phe Glu Thr Leu Ala Gly Leu Leu Tyr Thr Phe Leu Met		270
	275	280
Arg Gln Ser Val Pro Pro Leu Leu Thr Ala Cys Gly Ile Ala Leu Leu		285
	290	295
Val Val Gly Val Val Ile Ala Val Arg Ala Lys Pro Glu Lys Pro Met		300
	305	310
Val Val Pro Ala Ser Glu Gly		315
	325	320

<210> 6446

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 6446

Asn Ala Ser Tyr Ile Ser Asp Asp Glu Val Thr Ala Met Ala Phe Arg	
1	5
Asp Gln Pro Leu Gly Glu Leu Ala Leu Ser Ile Pro Arg Ala Ser Ala	10
	20
Leu Phe Arg Lys Tyr Asp Met Asp Tyr Cys Cys Gly Gly Lys Gln Thr	25
	30
Leu Ala Arg Ala Ala Ser Arg Lys Glu Leu Asp Val Glu Ala Ile Glu	35
	40
Ala Glu Leu Ala Gln Leu Ala Glu Gln Pro Val Asp Lys Asp Trp Arg	45
	50
Thr Ala Pro Leu Ala Glu Ile Ile Asp His Ile Ile Val Arg Tyr His	55
	60
Asp Arg His Arg Glu Gln Leu Pro Glu Leu Ile Leu Gln Ala Thr Lys	65
	70
Val Glu Arg Val His Ala Asp Lys Pro Ser Val Pro Arg Gly Leu Ala	75
	80
Lys Tyr Leu Thr Met Leu His Glu Glu Leu Ser Ser His Met Met Lys	85
	90
Glu Glu Gln Ile Leu Phe Pro Met Ile Lys Gln Gly Met Gly Ser Gln	95
	100
Ala Met Gly Pro Ile Ser Val Met Glu Ser Glu His Asp Asp Ala Gly	105
	110
Glu Leu Leu Glu Val Ile Lys His Thr Thr Asp Asn Val Thr Pro Pro	115
	120
Pro Glu Ala Cys Thr Thr Trp Lys Ala Met Tyr Asn Gly Ile Asn Glu	125
	130
Met Ile Asp Asp Leu Met Glu His Ile Ser Leu Glu Asn Asn Val Leu	135
	140
Phe Pro Arg Ala Leu Ala Gly Glu	145
	150
	155
	160
	165
	170
	175
	180
	185
	190
	195
	200
	205
	210
	215
	220
	225
	230

<210> 6447

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 6447

Leu Leu Val Ser Thr Tyr Lys Lys Val Ser Met Lys Thr Thr Ile Pro
1
5
10
15

Thr Leu Ser Glu Gln Met Arg Asp Gly Asn Leu Phe Ala Glu Gln Cys
 20 25 30
 Pro Ser Arg Glu Val Leu Lys His Val Thr Ser Arg Trp Gly Val Leu
 35 40 45
 Ile Leu Val Ala Leu Arg Gln Gly Thr His Arg Phe Ser Asp Leu Arg
 50 55 60
 Arg Lys Met Gly Gly Val Ser Glu Lys Met Leu Ala Gln Ser Leu Gln
 65 70 75 80
 Ala Leu Glu His Asp Gly Phe Val Asp Arg Val Ser Tyr Pro Val Val
 85 90 95
 Pro Pro His Val Glu Tyr Ser Leu Thr Pro Leu Gly Arg Glu Val Ser
 100 105 110
 Glu Lys Val Ala Ala Leu Ala Asp Trp Ile Glu Val Asn Thr Pro Gln
 115 120 125
 Val Met Ala Asn Arg Asp Glu Arg Ala Ala
 130 135

<210> 6448

<211> 554

<212> PRT

<213> Enterobacter cloacae

<400> 6448

Lys Arg Gln Arg Met Phe Lys Arg Ile Lys Val Ile Thr Leu Leu Ile
 1 5 10 15
 Ser Val Leu Leu Val Leu Gly Ile Met Gln Leu Ile Ser Ala Gly Ile
 20 25 30
 Phe Ile Asn Ala Leu Asn Asn Asp Lys Glu Asn Phe Thr Val Ser Gln
 35 40 45
 Leu Ser Ser Gln Asn Val Ala Glu Phe Thr Asp Ala Trp Ile Ser Leu
 50 55 60
 Asn Gln Ala Arg Val Thr Leu Asn Arg Gly Met Leu Arg Leu Gln Ser
 65 70 75 80
 Ser Met Ala Ser Gln Ile Asn Gly Gly Gln Leu Asn Glu Leu Val Asn
 85 90 95
 Thr Ala Lys Asn Leu Leu Ala Asp Ala Gln Thr His Tyr Asp Lys Tyr
 100 105 110
 Tyr Ala Leu Pro Glu Thr Pro Gly Met Asp Glu His Leu Ala Asp Arg
 115 120 125
 Leu Glu Glu Gln Tyr Arg Val Tyr Ser Ala Thr Leu Thr Gln Met Asn
 130 135 140
 Val Leu Leu Gly Gln Gly Asn Leu Glu Asp Met Phe Lys Gln Asn Ala
 145 150 155 160
 Glu Gln Lys Gln Thr Ala Met Gln Lys Val Tyr Arg Glu Trp Arg Glu
 165 170 175
 Ala Gln Ala Ala Leu Thr Ala Lys Gly Ile Gln Asp Asn Glu Ser Asp
 180 185 190
 Tyr Lys Arg Ile Leu Trp Ile Leu Ser Ala Val Met Leu Leu Val Ile
 195 200 205
 Ala Val Ile Ile Ser Ser Trp Ile Ala Met Arg Arg Val Leu Leu Leu
 210 215 220
 Pro Leu Glu Glu Val Ile Asn His Ile Arg Ala Ile Ala Ala Gly Asp
 225 230 235 240
 Leu Thr Gln Pro Ile Gln Ala Glu Gly Lys Asn Glu Met Ala Ile Leu
 245 250 255
 Ala Arg Asn Val Gln Glu Met Gln Thr Ala Leu Ala Asn Thr Val Gly
 260 265 270
 Val Val Arg Glu Gly Ala Asp Thr Ile Tyr Thr Gly Ala Gly Glu Ile
 275 280 285
 Ser Ala Gly Ser Asn Asp Leu Ser Ser Arg Thr Glu Gln Gln Ala Ala
 290 295 300

Ser Leu Glu Glu Thr Ala Ala Ser Met Glu Gln Leu Thr Ala Thr Val
 305 310 315 320
 Lys Gln Asn Ala Asp Asn Ala Arg Gln Ala Ser Arg Leu Ala Leu Asp
 325 330 335
 Ala Ser Ser Thr Ala Lys Lys Gly Gly Asn Val Val Glu Gly Val Val
 340 345 350
 Arg Thr Met Asp Glu Ile Ala Thr Ser Ser Lys Ile Ala Gln Ile
 355 360 365
 Thr Asn Val Ile Asp Gly Ile Ala Phe Gln Thr Asn Ile Leu Ala Leu
 370 375 380
 Asn Ala Ala Val Glu Ala Arg Ala Gly Glu Gln Gly Arg Gly Phe
 385 390 395 400
 Ala Val Val Ala Gly Glu Val Arg Thr Leu Ala Gln Arg Ser Ala Gln
 405 410 415
 Ala Ala Lys Glu Ile Lys Ala Leu Ile Asp Asp Ser Gly Glu Arg Val
 420 425 430
 Asn Ala Gly Ser Gln Leu Val Asn Glu Ala Gly Ala Thr Met Ala Glu
 435 440 445
 Ile Val Asn Ala Val Thr Arg Val Thr Asp Ile Met Gly Glu Ile Ala
 450 455 460
 Ser Ala Ser Asp Glu Gln Ser Arg Gly Ile Asp Gln Val Gly Gln Ala
 465 470 475 480
 Val Ala Glu Met Asp Arg Val Thr Gln Gln Asn Ala Ser Leu Val Glu
 485 490 495
 Glu Ser Ala Ala Ala Ala Ala Leu Glu Asp Gln Ala Ala Arg Leu
 500 505 510
 Asn Asp Ala Val Ala Val Phe Lys Ile Thr Arg Asn Gln Ala Val Lys
 515 520 525
 Ala Ala Pro Val Lys Thr Tyr Ala Pro Lys Ala Gln Pro Val Ala Ala
 530 535 540
 Ala Ser Glu Ala Asn Trp Glu Thr Phe
 545 550

<210> 6449

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6449

Asp Asp Glu His Met Asp Gly Trp Gln Arg Ala Phe Val Leu His Ser
 1 5 10 15
 Arg Pro Trp Ser Glu Thr Ser Leu Met Leu Asp Val Phe Thr Glu Glu
 20 25 30
 Ser Gly Arg Val Arg Leu Val Ala Lys Gly Ala Arg Ser Arg Arg Ser
 35 40 45
 Asn Leu Lys Gly Ala Leu Gln Pro Phe Thr Pro Leu Leu Val Arg Phe
 50 55 60
 Gly Gly Arg Gly Glu Val Lys Thr Leu Arg Ser Ala Glu Ala Val Ser
 65 70 75 80
 Leu Ala Leu Pro Leu Ser Gly Ile Thr Leu Tyr Ser Gly Leu Tyr Val
 85 90 95
 Asn Glu Leu Ile Ser Arg Val Leu Glu His Glu Thr Arg Phe Ser Glu
 100 105 110
 Leu Phe Phe Asp Tyr Leu His Cys Ile Gln Ser Leu Ala Gly Ala Thr
 115 120 125
 Gly Thr Pro Glu Pro Val Leu Arg Arg Phe Glu Leu Ala Leu Leu Gly
 130 135 140
 His Leu Gly Tyr Gly Val Asp Phe Leu His Cys Ala Gly Ser Gly Asp
 145 150 155 160
 Glu Val Glu Asp Thr Met Thr Tyr Arg Tyr Arg Glu Glu Lys Gly Phe
 165 170 175

Ile Ala Ser Val Val Val Asp Asn Ser Thr Phe Thr Gly Arg Gln Leu
 180 185 190
 Arg Ala Leu Tyr Glu Arg Glu Phe Pro Asp Ala Asp Thr Leu Arg Ala
 195 200 205
 Ala Lys Arg Phe Thr Arg Ile Ala Leu Lys Pro Tyr Leu Gly Gly Lys
 210 215 220
 Pro Leu Lys Ser Arg Glu Leu Phe Arg Gln Phe Met Pro Lys Arg
 225 230 235 240

<210> 6450

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6450

Thr Lys Ile Pro Arg Ile Val Met Ala Glu Leu Leu Leu Gly Val Asn
 1 5 10 15
 Ile Asp His Ile Ala Thr Leu Arg Asn Ala Arg Gly Thr Ala Tyr Pro
 20 25 30
 Asp Pro Val Gln Ala Ala Phe Ile Ala Glu Gln Ala Gly Ala Asp Gly
 35 40 45
 Ile Thr Val His Leu Arg Glu Asp Arg Arg His Ile Thr Asp Arg Asp
 50 55 60
 Val Arg Ile Leu Arg Gln Thr Leu Asp Asn Arg Met Asn Leu Glu Met
 65 70 75 80
 Ala Val Thr Glu Glu Met Leu Thr Ile Ala Cys Asp Thr Lys Pro His
 85 90 95
 Phe Cys Cys Leu Val Pro Glu Lys Arg Gln Glu Val Thr Thr Glu Gly
 100 105 110
 Gly Leu Asp Val Ala Gly Gln Leu Asp Lys Met Arg Asp Ala Cys Lys
 115 120 125
 Arg Leu Ala Asp Ala Gly Ile Leu Val Ser Leu Phe Ile Asp Ala Asp
 130 135 140
 Phe Thr Gln Ile Lys Ala Ala Ala Asp Val Gly Ala Pro Tyr Ile Glu
 145 150 155 160
 Ile His Thr Gly Cys Tyr Ala Asp Ala Glu Asn Asp Ala Ala Gln Ala
 165 170 175
 Lys Glu Leu Glu Arg Ile Ala Lys Ala Ala Thr Tyr Ala Ala Ser Leu
 180 185 190
 Gly Leu Lys Val Asn Ala Gly His Gly Leu Thr Tyr His Asn Val Lys
 195 200 205
 Ala Ile Ala Ala Leu Pro Glu Met His Glu Leu Asn Ile Gly His Ala
 210 215 220
 Ile Ile Gly Arg Ala Val Met Ser Gly Leu Lys Asp Ala Val Ser Glu
 225 230 235 240
 Met Lys Arg Leu Met Leu Glu Ala Arg Gln
 245 250

<210> 6451

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6451

Arg Arg Leu Asn Val Asp Thr Ile Ala Gly Ile Val Arg Lys His Leu
 1 5 10 15
 Pro Glu Ala Thr His His Phe Pro Glu Asp Tyr Ile Thr Asp Arg Ser
 20 25 30
 Gln Arg Phe Met Ala Ser Glu Ile Ile Arg Glu Lys Leu Met Arg Phe
 35 40 45
 Leu Gly Ala Glu Leu Pro Tyr Ser Val Thr Val Glu Ile Glu Arg Phe

50 55 60
 Gln Ser Asn Glu Arg Gly Gly Tyr Asp Ile Asn Gly Leu Ile Leu Val
 65 70 75 80
 Glu Arg Glu Gly Gln Lys Lys Met Val Ile Gly Asn Lys Gly Ala Lys
 85 90 95
 Ile Lys Thr Ile Gly Ile Glu Ala Arg Lys Asp Met Gln Asp Met Phe
 100 105 110
 Glu Ala Pro Val His Leu Glu Leu Trp Val Lys Val Lys Ser Gly Trp
 115 120 125
 Ala Asp Asp Glu Arg Ala Leu Arg Ser Leu Gly Tyr Gly Glu Asp Gln
 130 135 140

145

<210> 6452

<211> 312

<212> PRT

<213> *Enterobacter cloacae*

<400> 6452

Cys Val Tyr Tyr Glu Leu Lys Ile Pro Glu Val Asn Asn Met Asn Leu
 1 5 10 15
 Gly Ser Leu Val Ser Glu Thr Arg Asn Pro Gln Thr Met Asp Leu Asp
 20 25 30
 Ala Leu Ser Thr Leu Glu Leu Val Asn Arg Phe Asn Gln Gln Asp Thr
 35 40 45
 Leu Val Ala Leu Ala Val Lys Glu Thr Leu Pro Glu Val Ala Lys Ala
 50 55 60
 Val Asp Ala Ala Ala Asp Ala Leu Lys Ala Gly Gly Arg Ile Ile Tyr
 65 70 75 80
 Met Gly Ala Gly Thr Ser Gly Arg Leu Gly Val Leu Asp Ala Ser Glu
 85 90 95
 Cys Pro Pro Thr Phe Gly Val Pro His Gly Leu Val Val Gly Leu Ile
 100 105 110
 Ala Gly Gly Pro Gly Ala Leu Leu Lys Ala Val Glu Gly Ala Glu Asp
 115 120 125
 Asn Lys Gln Leu Gly Glu Asp Asp Leu Arg Ala Leu Asn Leu Thr Ala
 130 135 140
 Gln Asp Leu Val Val Gly Leu Ala Ala Ser Gly Arg Thr Pro Tyr Val
 145 150 155 160
 Ile Gly Gly Leu Glu Tyr Ala Arg Gln Thr Gly Cys Thr Thr Val Ala
 165 170 175
 Ile Ser Cys Asn Pro Gly Ser Pro Ile Ala Gln Val Ala Ala Ile Ala
 180 185 190
 Ile Ser Pro Val Val Gly Pro Glu Ala Leu Thr Gly Ser Thr Arg Leu
 195 200 205
 Lys Ser Gly Thr Ala Gln Lys Leu Val Leu Asn Met Ile Ser Thr Gly
 210 215 220
 Ala Met Val Lys Phe Gly Lys Val Tyr Gln Asn Leu Met Val Asp Met
 225 230 235 240
 Gln Ala Thr Asn Val Lys Leu Val Asp Arg Ala Cys Arg Met Val Met
 245 250 255
 Glu Ala Thr Gly Ala Ser Arg Glu Glu Ala Glu Lys Val Leu Gln Gln
 260 265 270
 Thr Asp His Asp Val Lys Pro Ala Ile Leu Met Ile Leu Thr Gly Leu
 275 280 285
 Asp Ala Ala Ala Ala Arg Ala Arg Leu Glu Ala His His Gly Phe Leu
 290 295 300
 Arg Ala Ala Leu Glu His Gln
 305 310

<210> 6453
 <211> 458
 <212> PRT
 <213> Enterobacter cloacae

<400> 6453

Glu Ala Phe Met Asp Lys Thr Ala Ala Leu Ala Ser Asp Ile Leu Leu
 1 5 10 15
 Gly Ile Gly Gly Lys Asn Ile Gln Arg Leu Glu Asn Cys Met Thr
 20 25 30
 Arg Val Arg Val Glu Val Tyr Asn Asp Glu Lys Leu Asp Leu Thr Arg
 35 40 45
 Leu Lys Gln Leu Pro Gly Val Ser Gly Tyr Val Lys Gln Gly Gln Gln
 50 55 60
 His Gln Leu Ile Val Gly Pro Gly Lys Ala Ala Gln Val Val Asp Ala
 65 70 75 80
 Met Arg Ala Leu Met Thr Gly Gly Glu Thr Ala Pro Ala Phe Asp Asp
 85 90 95
 Ala Glu Arg Thr Lys Ala Gln Ala Lys Ala Lys Tyr Lys Ala Pro Met
 100 105 110
 Ser Asp Ala Leu Arg Gln Leu Ala Asn Val Phe Ile Pro Leu Ile Pro
 115 120 125
 Ala Phe Ile Ala Ser Gly Leu Ile Thr Gly Ile Ile Asn Ile Leu Lys
 130 135 140
 Arg Pro Asp Ile Val Gly Asn Phe Ala Thr Gln Tyr Pro Asn Leu Leu
 145 150 155 160
 Gly Ile Leu Ala Ile Phe Gly Ser Ala Val Phe Ala Ile Met Asn Ile
 165 170 175
 Leu Val Gly Val Asn Thr Ala Lys Val Phe Gly Gly Ser Leu Ala Met
 180 185 190
 Gly Gly Val Met Ala Gly Ile Leu Ser Ser Pro Gln Leu Ala Gln Ile
 195 200 205
 Thr Leu Phe Gly Glu Ala Leu Gln Pro Gly Arg Gly Gly Val Ile Ala
 210 215 220
 Val Leu Leu Val Val Ile Leu Met Cys Trp Ile Glu Lys Lys Leu Arg
 225 230 235 240
 Glu Leu Leu Pro Gly Ser Ile Glu Leu Ile Leu Asn Pro Leu Leu Thr
 245 250 255
 Thr Leu Ile Thr Gly Ser Val Ala Ile Val Ala Leu Gln Pro Leu Gly
 260 265 270
 Gly Ala Ile Ser Glu Ala Ile Ala His Gly Ala Ser Leu Ala Ile Asp
 275 280 285
 Arg Gly Gly Leu Leu Val Gly Ala Val Leu Ser Gly Thr Phe Leu Pro
 290 295 300
 Leu Val Leu Thr Gly Leu His Gln Gly Leu Val Pro Ile His Val Glu
 305 310 315 320
 Leu Val Gln Ala His Gly Tyr Asn Ala Leu Leu Pro Ile Leu Ser Met
 325 330 335
 Ala Gly Val Gly Gln Val Gly Ala Ala Ile Ala Val Leu Met Lys Thr
 340 345 350
 Arg Asn Ala Arg Leu Lys Lys Val Ile Lys Gly Ala Leu Pro Val Gly
 355 360 365
 Leu Leu Gly Ile Gly Glu Pro Leu Ile Phe Gly Val Thr Leu Pro Leu
 370 375 380
 Gly Lys Pro Phe Leu Ala Ala Cys Leu Gly Gly Ala Val Gly Gly Ala
 385 390 395 400
 Leu Ile Ser Tyr Trp Lys Val Ala Thr Val Ile Thr Phe Gly Ile Ser
 405 410 415
 Gly Leu Pro Leu Ala Leu Thr Ile Val Thr Gly Lys Val Met Leu Tyr
 420 425 430
 Leu Leu Gly Tyr Leu Val Ala Val Ile Ala Gly Phe Leu Phe Thr Trp

435 440 445
 Leu Leu Gly Phe Asn Asp Pro Glu Glu
 450 455

<210> 6454
 <211> 213
 <212> PRT
 <213> Enterobacter cloacae

<400> 6454
 Gly Leu Ala Ser His Glu Arg Arg Val Val Phe Phe Asp Leu Asp Gly
 1 5 10 15
 Thr Leu His Gln Gln Asp Met Phe Gly Thr Phe Met Arg Tyr Leu Leu
 20 25 30
 Arg Arg Gln Pro Leu Asn Ala Leu Leu Val Leu Pro Leu Leu Pro Val
 35 40 45
 Ile Gly Ile Ala Leu Leu Val Lys Gly Arg Ala Ala Arg Trp Pro Met
 50 55 60
 Ser Leu Leu Leu Trp Gly Cys Thr Phe Gly His Ser Glu Ala Arg Leu
 65 70 75 80
 Lys Gln Leu Glu Gln Asp Phe Ala His Trp Phe Arg Gly His Val Ala
 85 90 95
 Ala Phe Pro Val Val Gln Ala Arg Leu Thr Ser Tyr Leu Asp Ala Asn
 100 105 110
 Asp Ala Asp Ile Trp Leu Ile Thr Gly Ser Pro Gln Thr Leu Val Glu
 115 120 125
 Gln Val Tyr Phe Asp Thr Pro Trp Leu Pro Arg Val Asn Leu Ile Ala
 130 135 140
 Thr Gln Ile Ala Arg Gly Tyr Gly Gly Trp Val Leu Thr Leu Arg Cys
 145 150 155 160
 Leu Gly His Glu Lys Val Val Gln Leu Glu Lys Arg Ile Gly Thr Pro
 165 170 175
 Leu Arg Leu Tyr Ser Gly Tyr Ser Asp Ser Lys Gln Asp Asn Pro Leu
 180 185 190
 Leu Tyr Phe Cys Gln His Arg Trp Arg Val Thr Pro Leu Gly Glu Leu
 195 200 205
 Gln Gln Leu Glu
 210

<210> 6455
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

<400> 6455
 Ser Tyr Leu Tyr Arg Leu Cys Ile Met Pro Pro Ala Phe Arg Leu Glu
 1 5 10 15
 Tyr Gln Pro Leu Ser Asn Pro Glu His Asn His Glu Tyr Trp Met Arg
 20 25 30
 His Ala Leu Ala Leu Ala Gln Arg Ala Trp Glu Glu Gly Glu Val Pro
 35 40 45
 Val Gly Ala Val Leu Val His Asn Asn Gln Val Ile Gly Glu Gly Trp
 50 55 60
 Asn Arg Pro Ile Gly Arg His Asp Pro Thr Ala His Ala Glu Ile Met
 65 70 75 80
 Ala Leu Arg Gln Gly Gly Leu Val Leu Gln Asn Tyr Arg Leu Leu Asp
 85 90 95
 Thr Thr Leu Tyr Val Thr Leu Glu Pro Cys Val Met Cys Ser Gly Ala
 100 105 110
 Met Val His Ser Arg Ile Gly Thr Leu Val Phe Gly Ala Arg Asp Glu
 115 120 125

Lys Thr Gly Ala Ala Gly Ser Leu Met Asp Val Leu Gly His Pro Gly
 130 135 140
 Met Asn His Gln Val Lys Thr Ile Gly Gly Val Leu Ala Pro Glu Cys
 145 150 155 160
 Ser Gly Leu Leu Ser Asp Phe Phe Arg Met Arg Arg Gln Gln Lys Lys
 165 170 175
 Gln Gln Lys Ala Glu Leu Lys Pro Gln Gly Asp
 180 185

<210> 6456

<211> 181

<212> PRT

<213> Enterobacter cloacae

<400> 6456

Arg Arg Ser Arg Pro Asp Leu Ser Gln Arg Lys Ser His Arg Cys Pro
 1 5 10 15
 Ala Gly Asn Ala Arg Ala Glu His Arg Pro Arg Tyr His Trp Pro Cys
 20 25 30
 Gly Asp Glu Arg Ser Glu Arg Arg Gly Phe Arg Asp Glu Ala Ser Asp
 35 40 45
 Ala Gly Ser Ala Ser Val Met Ala Ile Leu Gly Leu Gly Thr Asp Ile
 50 55 60
 Val Glu Thr Ala Arg Ile Glu Ala Val Ile Ala Arg Ser Gly Asp Arg
 65 70 75 80
 Leu Ala Arg Arg Val Leu Ser Asp Asn Glu Trp Ala Ile Trp Glu Ala
 85 90 95
 His Gln Gln Pro Val Arg Phe Leu Ala Lys Arg Phe Ala Val Lys Glu
 100 105 110
 Ala Ala Ala Lys Ala Phe Gly Thr Gly Ile Arg Asn Gly Leu Ala Phe
 115 120 125
 Asn Gln Phe Glu Val Phe Asn Asp Glu Leu Gly Lys Pro Arg Leu Arg
 130 135 140
 Leu Trp Gly Glu Ala Leu Lys Leu Ala Glu Lys Leu Gly Val Ala His
 145 150 155 160
 Met His Val Thr Leu Ala Asp Glu Arg His Tyr Ala Cys Ala Thr Val
 165 170 175
 Ile Ile Glu Gly
 180

<210> 6457

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 6457

Cys Arg Pro Val Ser Thr Asn Gly Arg Lys Val Pro Asp Ser Thr Ala
 1 5 10 15
 Pro Thr Ser Ser Pro Pro Arg Ser Ile Ala Arg Asp Ala Pro Trp Ala
 20 25 30
 Met Ala Ser Glu Ile Ala Pro Pro Asn Gly Cys Ser Ala Thr Ile Ala
 35 40 45
 Thr Leu Pro Val Ile Asn Val Val Ser Ser Gly Leu Arg Ile Ser Ser
 50 55 60
 Ile Glu Pro Gly Ser Asn Ser Arg Ser Phe Phe Ser Ile Gln His Ile
 65 70 75 80
 Arg Met Thr Thr Ser Ser Thr Ala Ile Thr Pro Pro Arg Pro Gly
 85 90 95

<210> 6458

<211> 297

<212> PRT

<213> *Enterobacter cloacae*

<400> 6458

Phe Val Phe Ala Arg Val Ile Thr Phe Ser Pro Gly Asp Arg Met Asn
 1 5 10 15
 Cys Leu Ile Arg Ile Arg Gln Arg Tyr Ala Gly Phe Ala Gln Ser Asp
 20 25 30
 Lys Lys Leu Ala Asp Tyr Leu Leu Ser Gln Pro Asp Arg Ala Arg His
 35 40 45
 Leu Ser Ser Gln Gln Leu Ala Gly Glu Ala Gly Val Ser Gln Ser Ser
 50 55 60
 Val Val Lys Phe Ala Gln Lys Ile Gly Tyr Lys Gly Phe Pro Ala Leu
 65 70 75 80
 Lys Leu Ala Ile Ser Glu Ala Leu Val Ser Asn Pro Asn Pro Gln Ser
 85 90 95
 Met Pro Val His Asn Gln Ile Arg Gly Asp Asp Pro Met Arg Leu Val
 100 105 110
 Gly Glu Lys Leu Ile Lys Glu Asn Val Ala Ala Met His Ala Thr Leu
 115 120 125
 Asp Val Asn Thr Glu Glu Lys Leu Leu Glu Ser Val Ala Met Leu Arg
 130 135 140
 Asp Ala Arg Arg Ile Val Leu Thr Gly Ile Gly Ala Ser Gly Leu Val
 145 150 155 160
 Ala Arg Asn Phe Gly Trp Lys Leu Thr Lys Ile Gly Tyr Asn Ala Ile
 165 170 175
 Val Glu Gln Asp Met His Ala Leu Leu Ala Thr Val Gln Ala Met Asp
 180 185 190
 Pro Asp Asp Leu Leu Leu Ala Ile Ser Tyr Ser Gly Glu Arg Arg Glu
 195 200 205
 Ile Asn Met Ala Thr Asp Glu Ala Leu Arg Val Gly Lys Ile Leu
 210 215 220
 Ala Ile Thr Gly Phe Ser Pro Asn Ala Leu Gln Gln Arg Ala Thr Arg
 225 230 235 240
 Cys Leu Tyr Thr Ile Ala Glu Glu Gln Ala Thr Arg Ser Ala Ala Ile
 245 250 255
 Ser Ser Thr Ser Ala Gln Met Met Leu Thr Asp Leu Leu Phe Met Ala
 260 265 270
 Leu Val Gln Gln Asp Leu Glu Arg Ala Pro Glu Arg Ile Arg His Ser
 275 280 285
 Glu Glu Leu Val Lys Lys Leu Val
 290 295

<210> 6459

<211> 273

<212> PRT

<213> *Enterobacter cloacae*

<400> 6459

Ala Thr Val Arg Glu Lys Ile Glu Ser Leu Lys Lys Asp Pro Val Arg
 1 5 10 15
 Leu Glu Glu Lys Tyr Leu Gly His Gly Asp Asp Phe Asp Tyr Val Asp
 20 25 30
 Thr Arg Thr Phe Leu Arg Ala Val Asp Ser Val Leu Pro Asp Leu Gln
 35 40 45
 Pro Leu Phe Glu Lys Tyr Ala Gln Glu Ile Asp Trp Lys Leu Leu Ala
 50 55 60
 Ala Ile Ser Tyr Gln Glu Ser His Trp Asp Ala Gln Ala Thr Ser Pro
 65 70 75 80
 Thr Gly Val Arg Gly Leu Met Met Leu Thr Lys Asn Thr Ala Gln Ser
 85 90 95

Leu Gly Ile Ser Asp Arg Thr Asp Ala Glu Gln Ser Ile Ser Gly Gly
 100 105 110
 Ala Gln Tyr Leu Gln Asp Met Met Ala Lys Val Pro Glu Thr Val Pro
 115 120 125
 Glu Gly Glu Arg Ile Trp Phe Ala Leu Ala Ala Tyr Asn Met Gly Tyr
 130 135 140
 Ala His Met Leu Asp Ala Arg Ala Leu Thr Ala Lys Thr Lys Gly Asn
 145 150 155 160
 Pro Asp Ser Trp Ser Asp Val Lys Gln Arg Leu Pro Leu Leu Ser Gln
 165 170 175
 Lys Gln Trp Tyr Gln Lys Leu Thr Tyr Gly Tyr Ala Arg Gly His Glu
 180 185 190
 Ala Tyr Ala Tyr Val Glu Asn Ile Arg Lys Tyr Gln Ile Ser Leu Val
 195 200 205
 Gly Tyr Leu Leu Glu Lys Glu Lys Glu Ala Ala Glu Ala Gln Gln Leu
 210 215 220
 Ala Glu Ser Tyr Pro Val Val Ala Pro Glu Glu Leu Asn His Pro Ala
 225 230 235 240
 Val Ser Ile Leu Pro Phe Val Ala Phe Ser Ala Ala Asp Ala Phe Glu
 245 250 255
 Lys Ser His Leu Thr Asp Pro Asn Ile Leu Val Gln Val Pro Arg Arg
 260 265 270

<210> 6460

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 6460

Ala Tyr Asn Ala Arg Pro Val Cys Asp Val Ser Glu Asn Phe Leu Met
 1 5 10 15
 Ala Leu Leu Ile Thr Lys Lys Cys Ile Asn Cys Asp Met Cys Glu Pro
 20 25 30
 Glu Cys Pro Asn Glu Ala Ile Ser Met Gly Asp Ser Ile Tyr Glu Ile
 35 40 45
 Asn Ser Asp Arg Cys Thr Glu Cys Ile Gly His Tyr Glu Thr Pro Thr
 50 55 60
 Cys Gln Lys Val Cys Pro Ile Pro Asn Thr Ile Leu Lys Asp Pro Ala
 65 70 75 80
 His Val Glu Asn Glu Glu Gln Leu Trp Asp Lys Phe Val Leu Met His
 85 90 95
 His Ala Asp Lys Ile
 100

<210> 6461

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 6461

Gln Asn Ala Asp Phe Phe Gly Thr Asn Leu Ala Asn Phe Leu Pro Asp
 1 5 10 15
 Gly Ala Phe Cys Ser Asp Cys Ser Pro Gln Ser Phe Thr Ile Glu Thr
 20 25 30
 Ser Thr Phe Asn Arg Met Arg Leu Leu Val Ser Asp Ser Ala Ala Arg
 35 40 45
 Pro Thr Phe Leu Phe His Asp Tyr Glu Thr Phe Gly Thr His Pro Ala
 50 55 60
 Leu Asp Arg Pro Ala Gln Phe Ala Ala Ile Arg Thr Asp Asp Glu Phe

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65          70          75          80
Asn Val Ile Gly Glu Pro Glu Val Phe Tyr Cys Lys Pro Ala Asp Asp
85
Tyr Leu Pro Gln Pro Gly Ala Val Met Val Thr Gly Ile Thr Pro Gln
100
Glu Ala Arg Asp Lys Gly Val Ser Glu Ala Glu Phe Ala Arg Arg Ile
115
His Asp Leu Phe Thr Val Pro Asn Thr Cys Val Val Gly Tyr Asn Asn
130
Ile Arg Phe Asp Asp Glu Val Thr Arg Asn Ile Phe Tyr Arg Asn Phe
145
Tyr Asp Pro Tyr Ala Trp Ser Trp Gln Asn Arg Asn Ser Arg Trp Asp
165
Leu Leu Asp Ile Met Arg Ala Cys Tyr Ala Leu Arg Pro Glu Gly Ile
180
Asn Trp Arg Glu Asn Asp Asp Gly Leu Pro Ser Phe Arg Leu Glu His
195
Leu Thr Arg Ala Asn Gly Ile Glu His Ser Asn Ala His Asp Ala Met
210
Ala Asp Val Tyr Ala Thr Ile Ala Met Ala Lys Leu Val Lys Thr Ala
225
Gln Pro Arg Leu Phe Glu Tyr Leu Leu Ser His Arg Ser Lys Gln Lys
245
Leu Met Thr Leu Ile Asp Val Pro Gln Met Lys Pro Leu Val His Ile
260
Ser Gly Met Phe Gly Ala Trp Arg Gly Asn Thr Ser Trp Val Ala Pro
275
Leu Ala Trp His Pro Asp Asn Arg Asn Ala Val Ile Met Val Asp Leu
290
Ala Gly Asp Ile Ser Pro Leu Leu Glu Leu Asp Ser Asp Thr Leu Arg
305
Glu Arg Leu Tyr Thr Pro Lys Glu Ala Leu Gly Asp Leu Pro Ala Val
325
Pro Val Lys Leu Val His Ile Asn Lys Cys Pro Val Leu Ala Gln Ala
340
Asn Thr Leu Arg Pro Glu Asp Ala Asp Arg Leu Gly Ile Asn Arg Gln
355
His Cys Leu Asp Asn Leu Lys Val Leu Arg Asp Asn Pro Gln Val Arg
370
Glu Lys Val Val Ala Ile Phe Ala Glu Ala Glu Pro Phe Val Pro Ser
385
Glu Asn Val Asp Ala Gln Leu Tyr Asn Gly Phe Phe Ser Asp Ala Asp
405
Arg Ala Ala Met Asn Ile Val Leu Gln Thr Asp Pro Arg Asn Leu Pro
420
Ala Leu Asp Ile Thr Phe Ala Asp Lys Arg Ile Glu Lys Leu Met Phe
435
Asn Tyr Arg Ala Arg Asn Tyr Pro Gly Thr Leu Asp Glu Ala Glu Gln
450
Glu Arg Trp Leu Gln His Arg Arg Ser Val Phe Thr Pro Glu Phe Leu
465
Asn Ser Tyr Ala Gln Glu Leu Glu Met Leu Tyr Gly Gln Tyr Glu Gly
485
Asn Ala Glu Lys Gln Ala Leu Leu Lys Ala Leu Phe Gln Tyr Ala Gln
500
Glu Ile Val
515

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<210> 6462

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 6462

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Ser Thr Lys Trp Asp Asn Pro Ala Lys Arg Arg Val Phe Gln Pro Gly
1      5      10      15
Ala Ile His Pro Ala Glu Asn Thr Val Gln Leu Trp Phe Ala Val Glu
20     25     30
Leu Glu Thr Gly Val Arg Pro Asp Lys Ser Leu Thr Pro Phe Glu Ile
35     40     45
Arg Leu Tyr Lys His Tyr Arg Val Val His Gly Cys Arg Ile Ala Leu
50     55     60
Ala Phe Val Leu Thr Phe Val Leu Val Arg Leu Leu Asp Ile Pro Glu
65     70     75     80
Gly Thr Trp Pro Leu Ile Thr Leu Val Val Val Met Gly Pro Ile Ser
85     90     95
Phe Trp Gly Asn Val Val Pro Arg Ala Phe Glu Arg Ile Gly Gly Thr
100    105    110
Val Leu Gly Ser Ala Leu Gly Leu Ile Ala Leu Lys Leu Glu Leu Ile
115    120    125
Ser Phe Pro Phe Met Leu Leu Trp Cys Ala Val Ala Met Phe Leu Cys
130    135    140
Gly Trp Leu Thr Leu Gly Lys Lys Pro Tyr Gln Ala Leu Leu Ile Gly
145    150    155    160
Ile Thr Leu Ala Val Val Val Gly Ala Pro Ala Gly Asp Met Thr Thr
165    170    175
Ala Leu Trp Arg Ser Gly Asp Val Ile Leu Gly Ser Leu Leu Ala Met
180    185    190
Leu Phe Thr Gly Ile Trp Pro Gln Arg Ala Phe Leu His Trp Arg Ile
195    200    205
Gln Met Ala Asn Tyr Val Thr Ala Phe Asn Arg Val Tyr Gln Ala Gly
210    215    220
Phe Ser Pro Asn Leu Ile Glu Arg Pro Arg Leu Glu Lys His Leu Gln
225    230    235    240
Lys Ile Leu Asn Asp Val Val Lys Met Arg Gly Leu Ile Thr Pro Ala
245    250    255
Ser Lys Glu Thr His Ile Gln Lys Ala Ile Phe Glu Ala Ile Gln Thr
260    265    270
Val Ser Arg Asn Leu Val Cys Met Leu Glu Leu Gln Ile Asn Ala His
275    280    285
Trp Ala Ser Arg Pro Ser His Leu Leu Met Leu Asn Ala His Thr Leu
290    295    300
Lys Glu Thr Gln Gln Met Thr Gln Gln Thr Leu Leu Thr Ile Ala His
305    310    315    320
Ala Leu Tyr Glu Gly Asn Pro Gln Pro Ile Arg Ala Asn Ser Glu Arg
325    330    335
Leu Asn Glu Ile Val Ala Glu Leu Lys Gln Leu Met Asn Glu Arg Gln
340    345    350
Gly Asp Asn Val Ala Glu Thr Pro Ile His Gly Tyr Val Trp Leu Ser
355    360    365
Met Glu Leu Ala Arg Gln Leu Glu Leu Leu Ser Gln Leu Ile Cys Arg
370    375    380
Ala Leu Arg Lys
385

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<210> 6463

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 6463

Asn Gly Cys Phe Asn Glu Ser Glu Ser His Ile Ile Arg Gly Val Lys

1				5						10				15
Met	Glu	Thr	Thr	Lys	Pro	Ser	Phe	Gln	Asp	Val	Leu	Glu	Phe	Val
			20					25					30	
Leu	Phe	Arg	Arg	Lys	Asn	Lys	Leu	Gln	Arg	Glu	Ile	Gln	Asp	Val
		35					40					45		
Lys	Lys	Ile	Arg	Asp	Asn	Gln	Lys	Arg	Val	Leu	Leu	Asp	Asn	Leu
	50					55				60				
Ser	Asp	Tyr	Ile	Lys	Pro	Gly	Met	Ser	Val	Glu	Ala	Ile	Gln	Gly
65					70				75					80
Ile	Ala	Ser	Met	Lys	Ser	Asp	Tyr	Glu	Asp	Arg	Val	Asp	Asp	Tyr
			85						90				95	
Ile	Lys	Asn	Ala	Glu	Leu	Ser	Lys	Glu	Arg	Arg	Asp	Ile	Ser	Lys
			100					105					110	
Leu	Lys	Val	Met	Gly	Glu	Ile	Lys	Asn	Val	Asp	Ala	Lys	Gly	Glu
		115					120						125	

<210> 6464

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 6464

Asn	Arg	Leu	Leu	Asp	Val	Leu	Ile	Ile	Pro	Gly	Gly	Ala	Gly	Lys	Arg
1				5					10					15	
Arg	Gly	Ala	Cys	Pro	Pro	His	Arg	Ala	Lys	Leu	Tyr	Lys	Thr	Arg	Ser
			20					25					30		
Val	Met	Ser	Tyr	Thr	Val	Gln	Lys	Leu	Glu	Ser	Asp	Val	Asn	Ile	Gln
		35				40						45			
Ile	Val	Asp	Arg	Thr	Gly	His	Arg	Ala	Arg	Phe	Thr	Arg	Thr	Gly	Gln
	50					55				60					
Met	Leu	Leu	Glu	Lys	Gly	Arg	Asp	Val	Leu	His	Thr	Val	Arg	Glu	Leu
65					70				75					80	
Asp	Lys	Gln	Ala	Val	Lys	Phe	His	Gln	Val	Trp	Glu	Asn	Glu	Leu	Val
			85					90					95		
Ile	Gly	Val	Asp	Asp	Thr	Phe	Pro	Leu	Ser	Val	Leu	Thr	Pro	Leu	Ile
		100					105					110			
Glu	Ala	Phe	Tyr	Gln	Arg	His	Ser	Val	Thr	Arg	Leu	Val	Phe	Ile	Asn
		115				120						125			
Gly	Val	Leu	Gly	Gly	Phe	Trp	Glu	Ala	Leu	Thr	Gln	Gly	Arg	Ala	Asp
	130					135					140				
Ile	Ile	Val	Gly	Ala	Val	His	Glu	Pro	Pro	Gln	Leu	Ser	Glu	Phe	Gly
145					150					155				160	
Phe	Ala	Arg	Leu	Gly	Val	Leu	Glu	Gln	Val	Phe	Ala	Val	Ala	Pro	His
			165					170					175		
His	Pro	Leu	Ala	Asn	Glu	Pro	Glu	Pro	Val	Thr	Arg	Arg	Val	Ile	Lys
		180					185					190			
Asn	Tyr	Arg	Ala	Ile	Val	Val	Gly	Asp	Ser	Ser	Arg	Pro	Glu	Cys	Gly
	195					200					205				
Ile	Ser	Ser	Gln	Met	Leu	Asp	Glu	Gln	Glu	Ala	Ile	Thr	Val	Phe	Asp
	210				215					220					
Phe	Lys	Thr	Lys	Leu	Glu	Leu	Gln	Ile	Ser	Gly	Leu	Gly	Cys	Gly	Tyr
225				230					235					240	
Leu	Pro	Arg	Tyr	Leu	Ala	Gln	Arg	Phe	Ile	Asp	Ser	Gly	Ala	Leu	Val
			245					250					255		
Glu	Lys	Gln	Val	Leu	Ala	Gln	Ser	Ser	Asn	Glu	Ser	Val	Trp	Val	Gly
		260					265					270			
Trp	Asn	Glu	Gln	Thr	Ala	Gly	Leu	Ala	Ser	Ala	Trp	Trp	Arg	Asp	Glu
	275					280					285				
Ile	Leu	Ala	Asn	Ser	Ala	Ile	Ala	Thr	Val	Tyr	Thr	Gln	Ala	Asp	Asp
	290				295						300				

Gly Lys Ser Thr Ser

305

310

<210> 6465

<211> 394

<212> PRT

<213> *Enterobacter cloacae*

<400> 6465

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Pro Glu Asp Ile Pro Leu Lys Arg Arg Leu Phe Ile Ala Val Ser Leu
1          5          10          15
Leu Ala Ser Ser Ile Ser Ser Ala Leu Ala Ala Glu Pro Leu Asp Phe
20          25          30
Ser Pro Gln Pro Pro Ala Ile Gln Ala Gly Ser Trp Val Leu Met Asp
35          40          45
Tyr Thr Thr Gly Gln Ile Leu Thr Ala Gly Asn Glu His Gln Gln Arg
50          55          60
Asn Pro Ala Ser Leu Thr Lys Leu Met Thr Gly Tyr Val Val Asp Arg
65          70          75          80
Ala Ile Asp Ser His Arg Ile Ser Pro Asp Asp Ile Val Thr Val Gly
85          90          95
Arg Asp Ala Trp Ala Lys Gly Asn Ser Val Phe Asp Gly Ser Ser Leu
100         105         110
Met Phe Leu Lys Glu Gly Asp Arg Val Ser Val Arg Asp Leu Ser Arg
115         120         125
Gly Leu Ile Val Asp Ser Gly Asn Asp Ala Cys Val Ala Leu Ala Asp
130         135         140
His Val Ala Gly Gly Gln Pro Gln Phe Val Arg Met Met Asn Asp Tyr
145         150         155         160
Val Glu Lys Leu Asn Leu Arg Asp Thr His Phe Glu Thr Val His Gly
165         170         175
Leu Asp Ala Pro Gly Gln His Ser Ser Ala Tyr Asp Leu Ala Val Leu
180         185         190
Ser Arg Ala Ile Ile His Gly Glu Pro Glu Phe Tyr His Met Tyr Ser
195         200         205
Glu Lys Ser Leu Thr Trp Asn Gly Ile Thr Gln Gln Asn Arg Asn Gly
210         215         220
Leu Leu Trp Asp Lys Thr Met Asn Val Asp Gly Leu Lys Thr Gly His
225         230         235         240
Thr Ser Gly Ala Gly Phe Asn Leu Ile Ala Ser Ala Val Asp Gly Gln
245         250         255
Arg Arg Leu Ile Ala Val Val Met Gly Ala Asp Thr Pro Lys Gly Arg
260         265         270
Glu Asp Gln Ala Arg Lys Leu Leu His Trp Gly Gln Gln Asn Phe Asp
275         280         285
Thr Val Gln Ile Leu His Asn Gly Lys Lys Val Gly Thr Glu Arg Ile
290         295         300
Trp Tyr Gly Asp Lys Glu Gln Ile Ala Leu Gly Thr Asp Gln Asp Phe
305         310         315         320
Trp Leu Ala Leu Pro Lys Ser Glu Val Pro Asn Ile Lys Ala Lys Tyr
325         330         335
Val Met Asp Lys Lys Glu Leu Glu Ala Pro Ile Ala Ala His Gln Arg
340         345         350
Val Gly Glu Ile Gln Leu Tyr Asp Arg Asp Lys Val Val Ala His Trp
355         360         365
Pro Leu Val Thr Leu Glu Ser Val Glu Lys Gly Gly Leu Phe Ser Arg
370         375         380
Leu Gly Asp Tyr Leu His His Lys Leu
385         390

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<210> 6466

<211> 457

<212> PRT

<213> *Enterobacter cloacae*

<400> 6466

Arg Arg Ile Thr Met Ser His Asn Ala Thr Pro Asn Thr Ser Arg Val
 1 5 10 15
 Glu Leu Arg Lys Thr Leu Thr Leu Ile Pro Val Val Met Met Gly Leu
 20 25 30
 Ala Tyr Met Gln Pro Met Thr Leu Phe Asp Thr Phe Gly Ile Val Ser
 35 40 45
 Gly Leu Thr Asp Gly His Val Pro Thr Ala Tyr Gly Phe Ala Leu Ile
 50 55 60
 Ala Ile Leu Phe Thr Ala Leu Ser Tyr Gly Lys Leu Val Arg Arg Tyr
 65 70 75 80
 Pro Ser Ala Gly Ser Ala Tyr Thr Tyr Ala Gln Lys Ser Ile Ser Pro
 85 90 95
 Thr Val Gly Phe Met Val Gly Trp Ser Ser Leu Leu Asp Tyr Leu Phe
 100 105 110
 Ala Pro Met Ile Asn Ile Leu Leu Ala Lys Ile Tyr Phe Glu Ala Leu
 115 120 125
 Val Pro Ser Ile Pro Ser Trp Met Phe Val Val Ala Leu Val Ala Phe
 130 135 140
 Met Thr Ala Phe Asn Leu Arg Ser Ile Lys Ser Val Ala Asn Phe Asn
 145 150 155 160
 Ser Val Ile Val Val Leu Gln Val Val Leu Ile Ala Val Ile Leu Gly
 165 170 175
 Met Val Ile Tyr Gly Val Phe His Gly Glu Gly Ala Gly Thr Leu Ala
 180 185 190
 Ser Ser Lys Pro Phe Trp Ser Gly Asp Ala His Val Ile Pro Met Ile
 195 200 205
 Thr Gly Ala Thr Ile Leu Cys Phe Ser Phe Thr Gly Phe Asp Gly Ile
 210 215 220
 Ser Asn Leu Ser Glu Glu Thr Lys Asp Ala Glu Arg Val Ile Pro Arg
 225 230 235 240
 Ala Ile Phe Leu Thr Ala Leu Ile Gly Gly Leu Ile Phe Ile Phe Ser
 245 250 255
 Thr Tyr Phe Leu Gln Leu Tyr Phe Pro Asp Ile Ser Arg Phe Lys Asp
 260 265 270
 Pro Asp Ala Ser Gln Pro Glu Ile Met Leu Tyr Val Ala Gly Lys Ala
 275 280 285
 Phe Gln Val Gly Ala Leu Ile Phe Ser Thr Ile Thr Val Leu Ala Ser
 290 295 300
 Gly Met Ala Ala His Ala Gly Val Ala Arg Leu Met Tyr Val Met Gly
 305 310 315 320
 Arg Asp Gly Val Phe Pro Lys Ser Phe Phe Gly Tyr Val His Pro Thr
 325 330 335
 Trp Arg Thr Pro Ala Met Asn Ile Ile Leu Val Gly Ala Ile Ala Leu
 340 345 350
 Leu Ala Ile Asn Phe Asp Leu Val Met Ala Thr Ala Leu Ile Asn Phe
 355 360 365
 Gly Ala Leu Val Ala Phe Thr Phe Val Asn Leu Ser Val Ile Ser Gln
 370 375 380
 Phe Trp Ile Arg Glu Lys Arg Asn Lys Thr Leu Lys Asp His Phe Gln
 385 390 395 400
 Tyr Leu Phe Leu Pro Met Cys Gly Ala Met Thr Val Gly Ala Leu Trp
 405 410 415
 Val Asn Leu Glu Glu Ser Ser Met Val Leu Gly Leu Ile Trp Ala Gly
 420 425 430
 Ile Gly Leu Val Tyr Leu Ala Cys Val Thr Lys Ser Phe Arg Asn Pro
 435 440 445
 Val Pro Gln Tyr Glu Asp Val Ala

450

455

<210> 6467
 <211> 175
 <212> PRT
 <213> Enterobacter cloacae

<400> 6467
 Ser Arg Phe Cys Phe Thr Val Tyr Ile Tyr Thr Val Ile Asn Gly Gly
 1 5 10 15
 Ser Met Asp Tyr Ser Ile Arg Gln Gln Gln Lys Arg Thr Ile Ala Gly
 20 25 30
 Phe His Leu Val Gly Pro Trp Glu Lys Thr Val Lys Gln Gly Phe Glu
 35 40 45
 Gln Leu Val Met Trp Val Asp Gly Arg His Ile Gln Pro Gln Glu Trp
 50 55 60
 Val Ala Val Tyr Tyr Asp Asn Pro Asp Asp Val Pro Ala Glu Lys Leu
 65 70 75 80
 Arg Cys Val Thr Ala Val Thr Val Val Asp Val Phe Thr Ile Pro Glu
 85 90 95
 Asn Ser Glu Gly Val Met Met Thr Glu Ile Ala Ala Gly Glu Tyr Ala
 100 105 110
 Ile Ala Ala Ala Arg Val Glu Asn His Asp Phe Ala Thr Pro Trp Tyr
 115 120 125
 Gln Phe Phe Asn Ser Leu Leu Glu Asp Ser Lys Phe Gln Ile Ala Ala
 130 135 140
 Lys Pro Cys Phe Glu Arg Tyr Leu Asn Asp Gly Asn Ala Asp Gly Tyr
 145 150 155 160
 Trp Asp Ile Glu Met Phe Val Pro Val Glu His Lys Val Gly
 165 170 175

<210> 6468
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

<400> 6468
 Ser Lys Asn His Leu Met Met Lys Leu Asn Ser Gly Met Ser Cys Asp
 1 5 10 15
 Phe Cys Gln Ser Ser Leu Leu Glu Asn Pro Val Lys Val Ser Arg Lys
 20 25 30
 Asn Arg Ile Ala Ala Thr Met Ser Thr Pro Arg Asn Ala Pro Lys Gln
 35 40 45
 Met Pro Ser Thr Leu Ser Val Pro Asp Arg Pro Val Phe Ser Thr Ser
 50 55 60

65

<210> 6469
 <211> 273
 <212> PRT
 <213> Enterobacter cloacae

<400> 6469
 Ala Lys Arg Phe Ala Trp Arg Ala Glu Ala Asn Leu Arg Pro Glu Arg
 1 5 10 15
 Cys Gly Asp Glu Leu Gln Arg Gln Leu Ile Glu Ile Ile Pro Ser Pro
 20 25 30
 Trp Pro Ser Pro Gln Arg Gly Glu Gly Ser Val Tyr Ser Leu Ser Leu
 35 40 45
 Glu Gly Glu Gly Arg Gly Glu Gly Glu Ala Asp Val His Arg Asn Val

50		55		60
Asn Gly Ala Val Ala	Leu Ser Ile Phe	Ser Ala Phe	Pro Phe Leu Phe	Thr
65	70	75	80	
Arg Gly Lys Glu Ile	Pro Thr Gln Thr	Phe Ser Phe Ser	Val Arg Ile	
	85	90	95	
Arg Pro Glu Leu Asp	Asp Arg Ala Phe	Asn Arg Gly Thr	His Met Val	
	100	105	110	
Trp Ile Asp Tyr Ala	Ile Ile Ala Val	Ile Gly Phe Ser	Cys Leu Val	
	115	120	125	
Ser Leu Ile Arg Gly	Phe Val Arg Glu Ala	Leu Ser Leu Val	Thr Trp	
	130	135	140	
Gly Cys Ala Phe Phe	Val Ala Ser His	Tyr Tyr Thr Tyr	Leu Ser Val	
	145	150	155	160
Trp Phe Thr Gly Phe	Glu Asp Glu Leu	Val Arg Asn Gly	Ile Ala Ile	
	165	170	175	
Ala Val Leu Phe Ile	Ala Thr Leu Ile	Val Gly Ala Ile	Val Asn Tyr	
	180	185	190	
Val Ile Gly Gln Leu	Val Glu Lys Thr	Gly Leu Ser Gly	Thr Asp Arg	
	195	200	205	
Val Leu Gly Ile Cys	Phe Gly Ala Leu	Arg Gly Val Leu	Ile Val Ala	
	210	215	220	
Ala Ile Leu Phe Phe	Leu Asp Thr Phe	Thr Gly Phe Ser	Lys Ser Glu	
	225	230	235	240
Asp Trp Gln Lys Ser	Gln Leu Ile Pro	Glu Phe Ser Phe	Ile Ile Arg	
	245	250	255	
Trp Phe Phe Asp Tyr	Leu Gln Ser Ser	Ser Ser Phe Leu	Pro Arg Ala	
	260	265	270	

<210> 6470

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 6470

Thr Leu Arg Cys Gly	Leu Thr Arg Lys	Arg Arg Met Cys	Gly Ile Val
1	5	10	15
Gly Ile Ala Gly Phe	Met Pro Val Asn	Gln Ser Ile Tyr	Asp Ala Leu
	20	25	30
Thr Val Leu Gln His	Arg Gly Gln Asp	Ala Ala Gly Ile	Ile Thr Ile
	35	40	45
Asp Ala Asn Asn Cys	Phe Arg Leu Arg	Lys Ala Asn Gly	Leu Val Asn
	50	55	60
Asp Val Phe Glu Ala	Arg His Met Gln	Arg Leu Gln Gly	Asn Met Gly
	65	70	75
Ile Gly His Val Arg	Tyr Pro Thr Ala	Gly Ser Ser Ser	Ala Ser Glu
	85	90	95
Ala Gln Pro Phe Tyr	Val Asn Ser Pro	Tyr Gly Ile Thr	Leu Ala His
	100	105	110
Asn Gly Asn Leu Thr	Asn Ala His Glu	Leu Arg Lys Lys	Leu Phe Glu
	115	120	125
Glu Lys Arg Arg His	Ile Asn Thr Thr	Ser Asp Ser Glu	Ile Leu Leu
	130	135	140
Asn Ile Phe Ala Ser	Glu Leu Asp Asn	Phe Arg His Tyr	Pro Leu Glu
	145	150	155
Ala Asp Asn Ile Phe	Ala Ala Val Ala	Ala Thr Asn Arg	Gln Ile Arg
	165	170	175
Gly Ala Tyr Ala Cys	Val Ala Met Ile	Ile Gly His Gly	Met Val Ala
	180	185	190
Phe Arg Asp Pro Asn	Gly Ile Arg Pro	Leu Val Leu Gly	Lys Arg Asp

195 200 205
 Leu Gly Asp Gly Arg Ser Glu Tyr Met Val Ala Ser Glu Ser Val Ala
 210 215 220
 Leu Asp Thr Leu Gly Phe Glu Phe Leu Arg Asp Val Ala Pro Gly Glu
 225 230 235 240
 Ala Val Tyr Ile Thr Glu Lys Gly Gln Leu Phe Thr Arg Gln Cys Ala
 245 250 255
 Asp Asn Pro Val Ser Asn Pro Cys Leu Phe Glu Tyr Val Tyr Phe Ala
 260 265 270
 Arg Pro Asp Ser Phe Ile Asp Lys Ile Ser Val Tyr Ser Ala Arg Val
 275 280 285
 Asn Met Gly Thr Lys Leu Gly Glu Lys Ile Ala Arg Glu Trp Asp Asp
 290 295 300
 Leu Asp Ile Asp Val Val Ile Pro Ile Pro Glu Thr Ser Cys Asp Ile
 305 310 315 320
 Ala Leu Glu Ile Ala Arg Ile Leu Asp Lys Pro Tyr Arg Gln Gly Phe
 325 330 335
 Val Lys Asn Arg Tyr Val Gly Arg Thr Phe Ile Met Pro Gly Gln Gln
 340 345 350
 Leu Arg Arg Lys Ser Val Arg Arg Lys Leu Asn Ala Asn Arg Ala Glu
 355 360 365
 Phe Arg Asp Lys Asn Val Leu Leu Val Asp Asp Ser Ile Val Arg Gly
 370 375 380
 Thr Thr Ser Glu Gln Ile Ile Glu Met Ala Arg Glu Ala Gly Ala Lys
 385 390 395 400
 Lys Val Tyr Leu Ala Ser Ala Ala Pro Glu Ile Arg Phe Pro Asn Val
 405 410 415
 Tyr Gly Ile Asp Met Pro Thr Ala Asn Glu Leu Ile Ala His Gly Arg
 420 425 430
 Glu Val Asp Glu Ile Arg Gln Ile Ile Gly Ala Asp Gly Leu Ile Phe
 435 440 445
 Gln Asp Leu Asn Asp Leu Ile Asp Ala Val Arg Ala Glu Asn Pro Asp
 450 455 460
 Ile Gln Gln Phe Glu Cys Ser Val Phe Asn Gly Ile Tyr Val Thr Lys
 465 470 475 480
 Asp Val Asp Gln Gln Tyr Leu Asp Tyr Leu Asp Ser Leu Arg Asn Asp
 485 490 495
 Asp Ala Lys Ala Val Gln Leu Gln Asn Asp Leu Glu Ser Leu Glu Met
 500 505 510
 His Asn Glu Gly
 515

<210> 6471

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6471

Arg Ala Ala Pro Pro Val Pro Gly Gly Glu Lys Thr Arg Phe His His
 1 5 10 15
 Ser Arg Asp Asp Arg Ala Arg Gly Met Leu Tyr Gly Phe Ser Gly Val
 20 25 30
 Ile Leu Gln Gly Ala Leu Val Thr Leu Glu Leu Ala Ile Ser Ser Val
 35 40 45
 Val Leu Ala Val Leu Ile Gly Leu Ala Gly Ala Gly Ala Lys Leu Ser
 50 55 60
 Ala Asn Arg Pro Leu Ala Leu Ile Phe Glu Gly Tyr Thr Thr Leu Ile
 65 70 75 80
 Arg Gly Val Pro Asp Leu Val Leu Met Leu Leu Ile Phe Tyr Gly Leu
 85 90 95
 Gln Ile Ala Leu Asn Gly Val Thr Asp Ala Ile Gly Met Glu Gln Ile

100 105 110
 Asp Ile Asp Pro Met Val Ala Gly Ile Ile Thr Leu Gly Phe Ile Tyr
 115 120 125
 Gly Ala Tyr Phe Thr Glu Thr Phe Arg Gly Ala Tyr Met Ala Val Pro
 130 135 140
 Lys Gly His Ile Glu Ala Ala Thr Ala Tyr Gly Phe Thr Ser Ser Gln
 145 150 155 160
 Thr Phe Arg Arg Ile Met Phe Pro Ala Met Met Arg Tyr Ala Leu Pro
 165 170 175
 Gly Ile Gly Asn Asn Trp Gln Val Ile Leu Lys Ala Thr Ala Leu Val
 180 185 190
 Ser Leu Leu Gly Leu Glu Asp Val Val Lys Ala Thr Gln Leu Ala Gly
 195 200 205
 Lys Ser Thr Trp Glu Pro Phe Tyr Phe Ala Val Val Cys Gly Leu Ile
 210 215 220
 Tyr Leu Val Phe Thr Thr Val Ser Asn Gly Val Leu Leu Leu Glu
 225 230 235 240
 Arg Arg Tyr Ser Val Gly Val Lys Arg Ala Asp Leu
 245 250

<210> 6472

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 6472

Ser Arg Pro Gly Lys Thr Ala Ala Arg Ser Leu Asp Pro Ser Gly Leu
 1 5 10 15
 Gly Thr Asn Asn Asn Ile Glu Ile Asp Pro Val Pro Glu Glu Gln His
 20 25 30
 Lys Pro Val Glu Lys Pro Lys Pro Val Glu Lys Pro Gln Pro Lys Pro
 35 40 45
 Gln Arg Asp Lys Ala Ala Glu Gln Leu Ala Ala Ser Glu Thr Pro
 50 55 60
 Pro Gln Ala Lys Gln Asp Ala Ala Pro Thr Gly Lys Ala Tyr Val Val
 65 70 75 80
 Gln Leu Gly Ala Leu Lys Asn Ala Asp Lys Val Asn Glu Ile Val Ser
 85 90 95
 Lys Leu Arg Gly Ala Gly Tyr Arg Val Tyr Thr Ser Pro Thr Thr Pro
 100 105 110
 Val Gln Gly Lys Ile Thr Arg Ile Leu Val Gly Pro Asp Ala Ser Lys
 115 120 125
 Asp Lys Leu Lys Gly Ser Leu Gly Glu Leu Lys Gln Ile Ser Gly Leu
 130 135 140
 Ser Gly Val Val Met Asn Tyr Ser Ala Asn
 145 150

<210> 6473

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 6473

Phe Ala Phe Ser Phe Phe Leu Phe Pro Val Arg Ser Ala Asp Leu Leu
 1 5 10 15
 Ser Phe Thr Ile Lys Ala Val Ser Gln Arg Phe Ile Asn Ile Phe Asn
 20 25 30
 Val Val Val Leu Ser Arg Arg Gln Cys Gly Ile Arg Pro Ala Arg Ala
 35 40 45
 Ala Cys Asn Thr Thr His Asn Ile Asn His Asn Lys Ile Thr Val Leu
 50 55 60

Glu Gly Lys Cys Met Lys Lys Thr Val Leu Ala Leu Ser Leu Leu Val
 65 70 75 80
 Gly Leu Ser Ala Ala Ser Ser Tyr Ala Ala Leu Pro Gln Thr Val
 85 90 95
 Arg Ile Gly Thr Asp Ala Thr Tyr Ala Pro Phe Ser Ser Lys Asp Ala
 100 105 110
 Lys Gly Asp Phe Val Gly Phe Asp Ile Asp Leu Gly Asn Glu Met Cys
 115 120 125
 Lys Arg Leu Glu Val Lys Cys Thr Trp Val Gly Ser Asp Phe Asp Ala
 130 135 140
 Leu Ile Pro Ser Leu Lys Ala Lys Lys Ile Asp Ala Ile Ile Ser Ser
 145 150 155 160
 Leu Ser Ile Thr Glu Lys Arg Gln Gln Glu Ile Ala Phe Ser Glu Lys
 165 170 175
 Leu Tyr Ala Ala Asp Ser Arg Leu Ile Ala Ala Lys Gly Ser Pro Ile
 180 185 190
 Gln Pro Thr Ile Asp Ser Leu Lys Gly Lys His Val Gly Val Leu Gln
 195 200 205
 Gly Ser Thr Gln Glu Gly Phe Ala Asn Ala Asn Trp Arg Glu Lys Gly
 210 215 220
 Val Asp Val Val Ala Tyr Gln Asn Gln Asp Leu Ile Tyr Ser Asp Leu
 225 230 235 240
 Ala Ala Gly Arg Leu Asp Ala Ala Phe Gln Asp Glu Val Ala Ala Ser
 245 250 255
 Glu Gly Phe Leu Lys Gln Pro Ala Gly Lys Glu Tyr Ala Phe Ala Gly
 260 265 270
 Pro Ser Val Lys Asp Lys Lys Tyr Phe Gly Asp Gly Thr Gly Ile Gly
 275 280 285
 Leu Arg Lys Asp Asp Thr Glu Leu Lys Ala Ala Phe Asp Lys Ala Phe
 290 295 300
 Asn Glu Leu Arg Lys Asp Gly Thr Tyr Asp Lys Leu Ala Lys Lys Tyr
 305 310 315 320
 Phe Asn Phe Asn Val Tyr Gly Asp
 325

<210> 6474

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6474

Thr Gly Pro Lys Arg Asn Arg His Arg Gly Ala Val Tyr Arg Asp Val
 1 5 10 15
 Asp Cys Arg Arg Tyr Arg Gln Leu Arg Asp Arg Ser Ala Gly Arg Glu
 20 25 30
 Asn Arg Ser Val Arg Asn Gly Gln Gly Ala Arg His Leu Phe Arg Arg
 35 40 45
 Val Ala Arg Arg Ala His Cys Gly Arg Asp Pro Val Leu Pro Gly Tyr
 50 55 60
 Leu Tyr Arg Val Leu Gln Lys
 65 70

<210> 6475

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 6475

Asn Pro Ala Gln Ser Ala Leu Lys Ser Ala Arg Ala Lys Ile Met Lys
 1 5 10 15
 Arg Leu Ile Val Gly Ile Ser Gly Ala Ser Gly Ala Ile Tyr Gly Val

20 25 30
 Arg Leu Leu Gln Val Leu Arg Asp Val Ala Gly Val Glu Thr His Leu
 35 40 45
 Val Met Ser Gln Ala Ala Arg Gln Thr Leu Ser Leu Glu Thr Asp Leu
 50 55 60
 Ser Leu Arg Asp Val Gln Ala Leu Ser Asp Val Val His Asp Ala Arg
 65 70 75 80
 Asp Ile Ala Ala Ser Ile Ser Ser Gly Ser Phe Lys Thr Ala Gly Met
 85 90 95
 Val Ile Leu Pro Cys Ser Ile Lys Thr Leu Ser Gly Ile Val Asn Ser
 100 105 110
 Tyr Thr Asp Thr Leu Val Thr Arg Ala Ala Asp Val Val Leu Lys Glu
 115 120 125
 Arg Arg Pro Leu Val Leu Cys Val Arg Glu Thr Pro Leu His Leu Gly
 130 135 140
 His Leu Arg Leu Met Thr Gln Ala Ala Glu Leu Gly Ala Val Ile Met
 145 150 155 160
 Pro Pro Val Pro Ala Phe Tyr His Arg Pro Gln Thr Leu Asp Asp Val
 165 170 175
 Ile Asn Gln Thr Val Asn Arg Val Leu Asp Gln Phe Asp Ile Asp Leu
 180 185 190
 Pro Glu Asp Leu Phe Thr Arg Trp Gln Gly Ala
 195 200

<210> 6476

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 6476

Asp Ser Leu Leu Arg Thr Asp Met Lys Lys Leu Val Leu Ser Leu Ser
 1 5 10 15
 Leu Val Leu Ala Phe Ser Ser Ala Thr Ala Ala Phe Ala Ala Ile Pro
 20 25 30
 Gln Lys Ile Arg Ile Gly Thr Asp Pro Thr Tyr Ala Pro Phe Glu Ser
 35 40 45
 Lys Asn Ala Lys Gly Glu Leu Val Gly Phe Asp Ile Asp Leu Ala Asn
 50 55 60
 Glu Leu Cys Lys Arg Ile Lys Val Gln Cys Thr Tyr Val Glu Asn Pro
 65 70 75 80
 Leu Asp Ala Leu Ile Pro Ser Leu Lys Ala Lys Lys Ile Asp Val Ile
 85 90 95
 Met Ser Ser Leu Ser Ile Thr Glu Lys Arg Gln Gln Glu Ile Ala Phe
 100 105 110
 Thr Asp Lys Leu Tyr Ala Ala Asp Ser Arg Leu Val Val Ala Lys Ser
 115 120 125
 Ser Asp Ile Gln Pro Thr Leu Glu Ser Leu Lys Gly Lys Arg Val Gly
 130 135 140
 Val Leu Gln Gly Thr Thr Gln Glu Thr Tyr Gly Asn Glu His Trp Ala
 145 150 155 160
 Pro Lys Gly Ile Glu Ile Val Ser Tyr Gln Gly Gln Glu Asn Ile Tyr
 165 170 175
 Ala Asp Leu Thr Ala Gly Arg Ile Asp Ala Ala Phe Gln Asp Glu Val
 180 185 190
 Ala Ala Ser Glu Gly Phe Leu Lys Gln Pro Val Gly Lys Asp Tyr Lys
 195 200 205
 Phe Gly Gly Pro Ser Ile Lys Asp Glu Lys Leu Phe Gly Val Gly Thr
 210 215 220
 Gly Met Gly Leu Arg Lys Glu Asp Asn Glu Leu Arg Glu Ala Leu Asn
 225 230 235 240
 Lys Ala Phe Ala Glu Met Arg Ala Asp Gly Thr Tyr Asp Lys Leu Ala

2657

245 250 255
 Lys Lys Tyr Phe Asp Phe Asn Val Tyr Gly Gly
 260 265

<210> 6477
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

<400> 6477
 Pro Val Ile Glu Ile Ile Gln Glu Tyr Trp Lys Ser Leu Leu Trp Thr
 1 5 10 15
 Asp Gly Tyr Arg Phe Thr Gly Val Ala Ile Thr Leu Trp Leu Leu Ile
 20 25 30
 Ser Ser Val Val Met Gly Gly Ile Leu Ala Val Phe Leu Ala Ile Gly
 35 40 45
 Arg Val Ser Asn Asn Lys Phe Ile Gln Phe Pro Ile Trp Leu Phe Thr
 50 55 60
 Tyr Val Phe Arg Gly Thr Pro Leu Tyr Val Gln Leu Leu Val Phe Tyr
 65 70 75 80
 Ser Gly Met Tyr Thr Leu Glu Ile Val Lys Gly Thr Glu Met Leu Asn
 85 90 95
 Ala Phe Phe Arg Ser Gly Leu Asn Cys Thr Val Leu Ala Leu Thr Leu
 100 105 110
 Asn Thr Cys Ala Tyr Thr Thr Glu Ile Phe Ala Gly Ala Ile Arg Ser
 115 120 125
 Val Pro His Gly Glu Ile Glu Ala Ala Arg Ala Tyr Gly Phe Ser Ser
 130 135 140
 Val Lys Leu Tyr Arg Cys Ile Ile Leu Pro Ser Ala Leu Arg Ile Ala
 145 150 155 160
 Leu Pro Ala Tyr Ser Asn Glu Val Ile Leu Met Leu His Ser Thr Ala
 165 170 175
 Leu Ala Phe Thr Ala Thr Val Pro Asp Leu Leu Lys Ile Ala Arg Asp
 180 185 190
 Ile Asn Ser Ala Thr Tyr Gln Pro Phe Thr Ala Phe Gly Ile Ala Ala
 195 200 205
 Val Leu Tyr Leu Ile Ile Ser Tyr Val Leu Ile Ser Leu Phe Arg Lys
 210 215 220
 Ala Glu Lys Arg Trp Leu Gln His Ile Lys Pro Ser Thr His
 225 230 235

<210> 6478
 <211> 309
 <212> PRT
 <213> Enterobacter cloacae

<400> 6478
 Leu Tyr Leu Ser Ala Ala Pro Ala Ser Leu Arg Gly Glu Asp Leu Gln
 1 5 10 15
 Lys Arg Leu Arg Arg Asn Val Gly Glu Ala Ile Ala Asp Phe Asn Met
 20 25 30
 Ile Glu Glu Gly Asp Arg Ile Met Val Cys Leu Ser Gly Gly Lys Asp
 35 40 45
 Ser Tyr Thr Met Leu Glu Ile Leu Arg Asn Leu Gln Gln Ser Ala Pro
 50 55 60
 Val Asn Phe Ser Leu Val Ala Val Asn Leu Asp Gln Lys Gln Pro Gly
 65 70 75 80
 Phe Pro Glu His Ile Leu Pro Glu Tyr Leu Asp Asn Leu Gly Val Glu
 85 90 95
 Tyr Lys Ile Val Glu Glu Asn Thr Tyr Gly Ile Val Lys Glu Lys Ile
 100 105 110

Pro Glu Gly Lys Thr Thr Cys Ser Leu Cys Ser Arg Leu Arg Arg Gly
 115 120 125
 Ile Leu Tyr Arg Thr Ala Thr Glu Leu Gly Ala Thr Lys Ile Ala Leu
 130 135 140
 Gly His His Arg Asp Asp Ile Leu Gln Thr Leu Phe Leu Asn Met Phe
 145 150 155 160
 Tyr Gly Gly Lys Met Lys Gly Met Pro Pro Lys Leu Met Ser Asp Asp
 165 170 175
 Gly Lys His Ile Val Ile Arg Pro Leu Ala Tyr Cys Arg Glu Lys Asp
 180 185 190
 Ile Glu Arg Phe Ser Gln Ala Lys Ala Phe Pro Ile Ile Pro Cys Asn
 195 200 205
 Leu Cys Gly Ser Gln Pro Asn Leu Gln Arg Gln Val Ile Gly Asp Met
 210 215 220
 Leu Arg Asp Trp Asp Lys Arg Tyr Pro Gly Arg Ile Glu Thr Met Phe
 225 230 235 240
 Ser Ala Met Gln Asn Val Val Pro Ser His Leu Ala Asp Val Glu Leu
 245 250 255
 Phe Asp Phe Lys Gly Ile Asn His Gly Ser Glu Val Val Asn Gly Gly
 260 265 270
 Asp Leu Ala Phe Asp Arg Glu Glu Ile Pro Met Gln Pro Ala Gly Trp
 275 280 285
 Gln Pro Glu Glu Glu Asp Ala Gln Phe Asp Glu Leu Arg Leu Asn Val
 290 295 300
 Val Glu Val Lys
 305

<210> 6479

<211> 388

<212> PRT

<213> *Enterobacter cloacae*

<400> 6479

Cys Gln Pro Lys Tyr Asn Ala Pro Gly Lys Arg Met Leu Arg Asn Ile
 1 5 10 15
 Ser Val Arg Thr Phe Ile Val Tyr Phe Leu Leu Cys Val Phe Leu Val
 20 25 30
 Ser Asp Gly Val Ile Ala Leu Phe Ser Arg Asn Ser Ser Leu Phe Ile
 35 40 45
 Ala Val Ile Ile Val Gln Phe Ile Ala Leu Phe Leu Trp Ala Tyr
 50 55 60
 Met Thr Lys Tyr Leu Val Thr Pro Ile Asn Thr Val Lys Lys Ser Ile
 65 70 75 80
 Glu Glu Val Thr Ser Gly Lys Leu Gly Val Ser Ile Pro Glu Phe Gly
 85 90 95
 Asn Asn Cys Ala Gly Arg Leu Ile Pro Gly Ile Asn Ser Leu Ser Ser
 100 105 110
 Asn Ile Ala Thr Leu Val Arg Glu Ile Arg Ala Ser Ser Gln Thr Ala
 115 120 125
 Met Thr Leu Ser Asp Gln Leu Ser Ser Arg Ser Ala Gln Leu Ser Val
 130 135 140
 Lys Thr Glu Gln Gln Ser Ala Ser Leu Val Gln Thr Ala Ala Ser Met
 145 150 155 160
 Glu Glu Met Ala Ala Ser Thr Lys Asn Asn Ala Asp Asn Thr Arg Leu
 165 170 175
 Ala Ser Glu Gln Ala Asn Leu Ala Thr Leu Gln Ala Arg Lys Gly Gly
 180 185 190
 Glu Leu Met Gly Gln Val Ala Asn Asn Met Gln Ser Ile Thr Asp Cys
 195 200 205
 Ala Gln Gln Met Thr Glu Ile Ile Ser Leu Ile Asp Gly Ile Ala Phe
 210 215 220

Gln Thr Asn Ile Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg Ala
 225 230 235 240
 Gly Asp His Gly Lys Gly Phe Ser Val Val Ala Gly Glu Val Arg Ser
 245 250 255
 Leu Ala His Arg Ser Ala Glu Ala Ala Lys Asn Ile Lys Ser Leu Ile
 260 265 270
 Glu Val Thr Ser His Asn Val Thr Gln Gly Val Asn Val Val Ser Glu
 275 280 285
 Ala Glu Lys Asn Met His Asp Ile Val Thr Gly Ser Gly Asn Val Ser
 290 295 300
 Arg Leu Met Asp Glu Ile Ser Ala Ser Thr Ser Glu Gln Glu Lys Gly
 305 310 315 320
 Ile Ser Gln Ile Thr Gln Ala Leu Ser Glu Leu Glu Arg Val Thr Gln
 325 330 335
 Ser Asn Val Ser Met Val Glu Glu Leu Asn Gly Ser Ser Asp Val Leu
 340 345 350
 Arg Asn Gln Val Ile Glu Leu Gln Thr Arg Thr Arg Asn Phe Arg Leu
 355 360 365
 Glu Asn Glu Leu Gln Ala Asp Asn Ala Leu Arg Ser Arg Glu Trp Ala
 370 375 380
 Val Asn Ser
 385

<210> 6480

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 6480

Asn Gly Gly Gly Ala Val Glu Ser Ile Lys Gly Ser Glu Val Asn Val
 1 5 10 15
 Pro Asp Ala Val Phe Ala Trp Val Phe Asp Gly Arg Gly Gly Ala Arg
 20 25 30
 Pro Leu Glu Asp Gln Asp His Ile Asp Asn Glu His Pro Cys Trp Leu
 35 40 45
 His Leu Asn Tyr Thr His Pro Asp Ser Ala Glu Trp Leu Ala Ser Thr
 50 55 60
 Pro Leu Leu Pro Asn Asn Val Arg Asp Ala Leu Ala Gly Glu Ser Leu
 65 70 75 80
 Arg Pro Arg Val Ser Arg Met Gly Glu Gly Thr Leu Ile Thr Leu Arg
 85 90 95
 Cys Ile Asn Gly Ser Thr Asp Glu Arg Pro Asp Gln Leu Val Ala Met
 100 105 110
 Arg Val Tyr Met Asp Glu Arg Leu Ile Val Ser Thr Arg Gln Arg Lys
 115 120 125
 Val Leu Ala Leu Asp Asp Val Ile Asn Asp Leu Lys Glu Gly Thr Gly
 130 135 140
 Pro Thr Asp Cys Gly Ser Trp Leu Val Asp Val Cys Asp Ala Leu Thr
 145 150 155 160
 Asp His Ala Ser Glu Phe Ile Glu Glu Leu His Asp Lys Ile Ile Asp
 165 170 175
 Leu Glu Asp Asn Leu Leu Asp Gln Gln Ile Pro Pro Arg Gly Phe Leu
 180 185 190
 Ala Leu Leu Arg Lys Gln Leu Ile Val Met Arg Arg Tyr Met Thr Pro
 195 200 205
 Gln Arg Asp Val Tyr Ala Arg Leu Ala Ser Glu Arg Met Ser Trp Met
 210 215 220
 Asn Asp Asp Gln Arg Arg Arg Met Gln Asp Ile Ala Asp Arg Leu Gly
 225 230 235 240
 Arg Gly Leu Asp Glu Ile Asp Ser Cys Ile Ala Arg Thr Ala Val Met
 245 250 255

Ala Asp Glu Ile Ala Gln Val Met Gln Glu Ser Leu Ala Arg Thr
 260 265 270
 Tyr Thr Met Ser Leu Met Ala Met Val Phe Leu Pro Ser Thr Phe Leu
 275 280 285
 Thr Gly Leu Phe Gly Val Asn Leu Gly Gly Ile Pro Gly Gly Glu Tyr
 290 295 300
 His Tyr Gly Phe Thr Thr Phe Cys Val Met Leu Val Val Leu Ile Gly
 305 310 315 320
 Gly Val Ala Trp Trp Leu His Arg Ser Lys Trp Leu
 325 330

<210> 6481

<211> 467

<212> PRT

<213> Enterobacter cloacae

<400> 6481

Leu Gln Ser Leu Leu Arg Glu Tyr Ile Val Thr Ala Phe Ser Thr Leu
 1 5 10 15
 Asn Val Leu Pro Glu Ala Gln Leu Ala Asn Leu Asn Glu Leu Gly Tyr
 20 25 30
 Leu Thr Met Thr Pro Val Gln Ala Ala Leu Pro Ala Ile Leu Glu
 35 40 45
 Gly Arg Asp Val Arg Val Gln Ala Lys Thr Gly Ser Gly Lys Thr Ala
 50 55 60
 Ala Phe Gly Leu Gly Leu Gln His Ile Asp Ala Thr Leu Phe Gln
 65 70 75 80
 Thr Gln Ser Leu Ile Leu Cys Pro Thr Arg Glu Leu Ala Asp Gln Val
 85 90 95
 Ala Gly Glu Leu Arg Arg Leu Ala Arg Phe Leu Pro Asn Thr Lys Ile
 100 105 110
 Leu Thr Leu Cys Gly Gly Gln Pro Phe Gly Ala Gln Arg Asp Ser Leu
 115 120 125
 Gln His Ala Pro His Ile Ile Val Ala Thr Pro Gly Arg Leu Leu Asp
 130 135 140
 His Leu Gln Lys Gly Thr Val Ser Leu Asp Ala Leu Gln Thr Leu Val
 145 150 155 160
 Met Asp Glu Ala Asp Arg Met Leu Asp Met Gly Phe Ser Asp Ala Ile
 165 170 175
 Asp Glu Val Ile Arg Phe Ala Pro Ala Thr Arg Gln Thr Leu Leu Phe
 180 185 190
 Ser Ala Thr Trp Pro Glu Ala Ile Ala Ala Ile Ser Gly Arg Val Gln
 195 200 205
 Lys Asn Pro Leu Thr Ile Glu Ile Asp Thr Val Asp Ala Leu Pro Ala
 210 215 220
 Ile Glu Gln Gln Phe Phe Glu Thr Ser Gln Gln Gly Lys Ile Pro Leu
 225 230 235 240
 Leu Gln Lys Leu Leu Ser Gln His Gln Pro Ala Ser Cys Val Val Phe
 245 250 255
 Cys Asn Thr Lys Lys Asp Cys Gln Ala Val Cys Asp Ala Leu Asn Asp
 260 265 270
 Ala Gly Gln Ser Ala Leu Ser Leu His Gly Asp Leu Glu Gln Arg Asp
 275 280 285
 Arg Asp Gln Thr Leu Val Arg Phe Ala Asn Gly Ser Ala Arg Val Leu
 290 295 300
 Val Ala Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Lys Ser Leu Glu
 305 310 315 320
 Leu Val Val Asn Phe Glu Leu Ala Trp Asp Pro Glu Val His Val His
 325 330 335
 Arg Ile Gly Arg Thr Ala Arg Ala Gly Asn Ser Gly Leu Ala Ile Ser
 340 345 350

Phe Cys Ala Pro Glu Glu Ala Gln Arg Ala Asn Ile Leu Ser Glu Met
 355 360 365
 Leu Gln Leu Lys Leu Asn Trp Val Asn Thr Pro Asp Asn Ile Ser Ile
 370 375 380
 Ala Pro Leu Ala Ala Glu Met Ala Thr Leu Cys Ile Asp Gly Gly Lys
 385 390 395 400
 Lys Ala Lys Met Arg Pro Gly Asp Val Leu Gly Ala Leu Thr Gly Asp
 405 410 415
 Met Gly Leu Asp Gly Ala Asp Ile Gly Lys Ile Thr Val His Pro Ala
 420 425 430
 His Val Tyr Val Ala Val Arg Gln Ser Val Ala His Lys Ala Trp Lys
 435 440 445
 Gln Leu Gln Gly Gly Lys Ile Lys Gly Lys Thr Cys Arg Val Arg Leu
 450 455 460
 Leu Lys
 465

<210> 6482

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 6482

His Leu Phe Leu Leu Lys Lys Gly Ile Ala Met Ala Asp Ser Phe Gln
 1 5 10 15
 Asn Glu Val Pro Lys Ala Arg Ile Asn Leu Lys Leu Ala Leu His Thr
 20 25 30
 Gly Gly Ala Gln Lys Lys Ile Glu Leu Pro Leu Lys Leu Leu Thr Val
 35 40 45
 Gly Asp Phe Ser Asn Gly Lys Glu Asn Arg Pro Leu Ser Glu Arg Glu
 50 55 60
 Lys Ile Asn Val Asn Lys Asn Asn Phe Asn Ser Val Leu Ser Glu Phe
 65 70 75 80
 Asn Pro Glu Val Asn Leu Thr Val Pro Asn Thr Met Ala Gly Asp Gly
 85 90 95
 Ser Glu Glu Ser Ile Lys Leu Asn Phe Ser Asp Ile Lys Asp Phe Glu
 100 105 110
 Pro Glu Gln Val Ala Arg Gln Ile Pro Gln Leu Arg Ala Met Leu Ala
 115 120 125
 Met Arg Asn Leu Leu Arg Asp Leu Lys Ser Asn Leu Asp Asn Ala
 130 135 140
 Thr Phe Arg Lys Glu Leu Glu Lys Ile Leu Lys Asp Pro Ala Leu Ser
 145 150 155 160
 Gln Glu Leu Arg Asp Glu Met Ser Ala Leu Ala Pro Lys
 165 170

<210> 6483

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 6483

Thr Gly Ala Val Ser Met Phe Thr Gly Ile Val Gln Gly Thr Ala Lys
 1 5 10 15
 Val Val Ser Ile Asp Glu Lys Pro Asn Phe Arg Thr His Val Val Glu
 20 25 30
 Leu Pro Glu Tyr Met Leu Asp Gly Ile Glu Thr Gly Ala Ser Ile Ala
 35 40 45
 His Asn Gly Cys Cys Leu Thr Val Thr Glu Ile Asn Gly Asn Gln Ile
 50 55 60
 Ser Phe Asp Leu Met Lys Glu Thr Leu Arg Ile Thr Asn Leu Gly Glu

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65      70      75      80
Leu Val Val Gly Asp Ile Ile Asn Val Glu Arg Ala Ala Lys Phe Ser
      85      90      95
Asp Glu Ile Gly Gly His Leu Met Ser Gly His Ile Met Thr Thr Ala
      100      105      110
Glu Val Ala Lys Ile Val Thr Ser Glu Asn Asn Arg Gln Ile Trp Phe
      115      120      125
Lys Val Gln Asp Pro Ser Leu Met Lys Tyr Ile Leu Tyr Lys Gly Phe
      130      135      140
Ile Gly Ile Asp Gly Ile Ser Leu Thr Val Gly Glu Val Thr Pro Thr
145      150      155      160
Arg Phe Cys Val His Leu Ile Pro Glu Thr Leu Gln Arg Thr Thr Leu
      165      170      175
Gly Ala Lys Lys Leu Gly Gln Arg Val Asn Ile Glu Ile Asp Pro Gln
      180      185      190
Thr Gln Ala Val Val Asp Thr Val Glu Arg Val Leu Ala Lys Glu
      195      200      205
Ala Ala Ile Ile Lys Thr Val Glu Glu Glu
      210      215

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<210> 6484

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 6484

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Ile Lys Arg Ser Ala Ser Ser Gln Ala Ala Ser Arg Thr His Ser Met
1      5      10      15
Pro Arg Gln Pro Ala Ala Lys Ile Ala Ser Pro Asn Asn Arg Thr Gly
      20      25      30
Leu Arg Pro Lys Arg Ser Glu Ser Gly Pro His Ser Asn Cys Ala Lys
      35      40      45
Ala Lys Pro Ala Arg Asn Lys Leu Lys Leu Ala Leu Met Ala Ala Ala
      50      55      60
Gly Val Cys Lys Ser Ser Cys Ile Ala Ala Asn Ala Gly Arg Tyr Ile
65      70      75      80
Ser Val Ala Lys Lys Pro Ser Thr Leu Lys Pro Pro Ser Gln Thr Lys
      85      90      95
Asn Pro Phe Leu Gly Cys Thr Phe Phe Leu Leu Arg Arg Gln Val Tyr
      100      105      110
Val Gly Ala Glu Cys Arg Glu Cys Lys Ala Ala Cys Glu Thr Leu Ile
      115      120      125
Phe Gly Gly Cys Ile Gln Lys Ile Cys Arg Leu Lys Met Trp Ser Asp
      130      135      140
Tyr Ser Leu Glu Val Val Asp Ala Val Ala Arg Asn Gly Ser Phe Thr
145      150      155      160
Gly Ala Ala Gln Glu Leu His Arg Val Pro Ser Ala Ile Ser Tyr Thr
      165      170      175
Val Arg Gln Leu Glu Ala Trp Leu Ala Val Pro Leu Phe Glu Arg Arg
      180      185      190
His Arg Asp Val Glu Leu Thr Pro Ala Gly Ala Trp Phe Leu Lys Glu
      195      200      205
Gly Arg Ser Val Ile Lys Lys Met Gln Ile Thr Arg Glu Gln Cys Gln
      210      215      220
Gln Ile Ala Asn Gly Trp Arg Gly His Leu Ala Ile Ala Val Asp Asn
225      230      235      240
Ile Val Lys Pro Glu Arg Thr Arg Gln Met Ile Val Asp Phe Tyr Arg
      245      250      255
His Phe Ser Asp Val Glu Leu Arg Val Ser Gln Glu Val Phe Asn Gly
      260      265      270
Val Trp Asp Ala Leu Ala Asp Gly Arg Ala Glu Met Ala Ile Gly Ala

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      275              280              285
Thr  Gln Ala Ile Pro Val Gly Gly Arg Tyr Ala Phe Arg Asp Met Gly
290              295              300
Met  Leu Ser Trp Thr Cys Val Val Ala Arg Asp His Pro Leu Ala Ala
305              310              315              320
Leu  Glu Gly Pro Leu Ser Asp Asp Thr Leu Arg Asn Trp Pro Ser Leu
      325              330              335
Val  Leu Glu Asp Thr Ser Arg Ser Leu Pro Lys Arg Ile Thr Trp Leu
      340              345              350
Leu  Asp Asn Gln Arg Arg Val Val Ala Pro Asp Trp Glu Ser Ser Ala
      355              360              365
Thr  Cys Leu Ser Ala Gly Leu Cys Val Gly Met Val Pro Val His Phe
370              375              380
Ala  Arg Pro Arg Ile Asp Ala Gly Glu Trp Val Ala Leu Thr Leu Glu
385              390              395              400
Asn  Pro Phe Pro Asp Ala Ala Cys Cys Leu Thr Trp Gln Gln Asn Asp
      405              410              415
Val  Ser Pro Ala Met Ala Trp Leu Leu Asp Tyr Leu Gly Asp Ser Glu
      420              425              430
Thr  Leu Asn Arg Glu Trp Leu Arg Glu Pro Ala
435              440

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<210> 6485

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 6485

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Phe Cys Ala Gly Leu Trp His Gly Ile Arg Ser Leu Phe Met Lys Ile
1              5              10              15
Asn Phe Pro Leu Leu Ala Leu Ala Ile Gly Ala Phe Gly Ile Gly Thr
      20              25              30
Thr  Glu Phe Ser Pro Met Gly Leu Leu Pro Val Ile Ala Arg Gly Val
35              40              45
Asp Val Ser Ile Pro Ala Ala Gly Met Leu Ile Ser Ala Tyr Ala Ile
50              55              60
Gly Val Met Val Gly Ala Pro Leu Met Thr Leu Leu Leu Ser His Arg
65              70              75              80
Ala  Arg Arg Asn Ala Leu Ile Phe Leu Met Ala Ile Phe Thr Leu Gly
      85              90              95
Asn Val Phe Ser Ala Ile Ser Pro Asp Tyr Thr Thr Leu Met Leu Ser
100              105              110
Arg  Ile Leu Thr Ser Leu Asn His Gly Ala Phe Phe Gly Leu Gly Ser
115              120              125
Val  Val Ala Ala Ser Val Val Pro Lys His Lys Gln Ala Ser Ala Val
130              135              140
Ala  Thr Met Phe Met Gly Leu Thr Ile Ala Asn Ile Gly Gly Val Pro
145              150              155              160
Ala  Ala Thr Trp Leu Gly Glu Ala Ile Gly Trp Arg Met Ser Phe Leu
      165              170              175
Ala  Thr Ala Gly Leu Gly Val Val Ala Met Val Ala Leu Phe Phe Ser
180              185              190
Leu  Pro Lys Gly Ser Ala Gly Glu Arg Pro Glu Val Arg Lys Glu Leu
195              200              205
Ala  Val Leu Met Arg Pro Gln Val Leu Ser Ala Leu Leu Thr Thr Val
210              215              220
Leu  Gly Ala Gly Ala Met Phe Thr Leu Tyr Thr Tyr Ile Ser Pro Val
225              230              235              240
Leu  His Asp Ile Thr His Ala Thr Pro Leu Phe Val Thr Ala Met Leu
      245              250              255
Val  Leu Ile Gly Val Gly Phe Ser Thr Gly Pro Ile Ser Val Phe Thr

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260
Thr Arg Thr Gly Pro Arg Thr
275

265

270

<210> 6486
<211> 109
<212> PRT
<213> Enterobacter cloacae

<400> 6486
Gly Arg Ile Ser Thr Ala Ser Ser Leu Arg Thr Ser Gly Arg Ser Pro
1 5 10 15
Ala Leu Pro Phe Gly Ser Glu Lys Asn Ser Ala Thr Ile Ala Thr Thr
20 25 30
Pro Ser Pro Ala Val Ala Arg Lys Asp Ile Arg Gln Pro Met Ala Ser
35 40 45
Pro Ser Gln Val Ala Ala Gly Thr Pro Pro Ile Leu Ala Met Val Arg
50 55 60
Pro Ile Asn Ile Val Ala Thr Ala Leu Ala Cys Leu Cys Phe Gly Thr
65 70 75 80
Thr Leu Ala Ala Thr Thr Glu Pro Ser Pro Lys Lys Ala Pro Trp Leu
85 90 95
Arg Leu Val Arg Met Arg Glu Ser Ile Arg Val Val
100 105

<210> 6487
<211> 465
<212> PRT
<213> Enterobacter cloacae

<400> 6487
Leu Gln Tyr Lys Gly Val His Val Gln Lys Tyr Met Ile Glu Ala Arg
1 5 10 15
Gln Leu Leu Ala Leu Ala Ile Pro Val Ile Val Ala Gln Val Ala Gln
20 25 30
Thr Ala Met Gly Phe Val Asp Thr Val Met Ala Gly Gly Tyr Ser Ala
35 40 45
Thr Asp Met Ala Ala Val Ala Ile Gly Thr Ser Ile Trp Leu Pro Ala
50 55 60
Ile Leu Phe Gly His Gly Leu Leu Ala Leu Thr Pro Val Ile Ala
65 70 75 80
Gln Leu Asn Gly Ser Gly Arg Arg Asp Arg Val Ala His Gln Val Arg
85 90 95
Gln Gly Phe Trp Leu Ala Gly Phe Val Ser Val Leu Ile Met Ile Val
100 105 110
Leu Trp Asn Ala Gly Tyr Ile Ile Arg Ala Met His Asn Ile Asp Pro
115 120 125
Ala Leu Ala Asp Lys Ala Val Gly Tyr Leu Arg Ala Leu Leu Trp Gly
130 135 140
Ala Pro Gly Tyr Leu Phe Phe Gln Val Ala Arg Asn Gln Cys Glu Gly
145 150 155 160
Leu Ala Lys Thr Lys Pro Gly Met Val Met Gly Phe Ile Gly Leu Leu
165 170 175
Val Asn Ile Pro Val Asn Tyr Ile Phe Ile Tyr Gly His Phe Gly Met
180 185 190
Pro Glu Leu Gly Gly Val Gly Cys Gly Val Ala Thr Ala Ala Val Tyr
195 200 205
Trp Val Met Phe Gly Ser Met Leu Thr Tyr Ile Lys His Ala Arg Ser
210 215 220
Met Arg Asp Ile Arg Asn Asp Thr Thr Phe Ser Thr Pro Asp Trp Ser
225 230 235 240

Met Leu Thr Arg Leu Thr Gln Leu Gly Leu Pro Ile Ala Leu Ala Leu
 245 250 255
 Phe Phe Glu Val Thr Leu Phe Ala Val Val Ala Leu Leu Val Ser Pro
 260 265 270
 Leu Gly Ile Ile Asp Val Ala Gly His Gln Ile Ala Leu Asn Phe Ser
 275 280 285
 Ser Leu Met Phe Val Leu Pro Met Ser Leu Ala Ala Ala Val Thr Ile
 290 295 300
 Arg Val Gly Phe Arg Leu Gly Gln Gly Ser Thr Leu Asp Ala Gln Thr
 305 310 315 320
 Ala Ala Arg Thr Gly Leu Gly Val Gly Val Cys Met Ala Val Cys Thr
 325 330 335
 Ala Leu Phe Thr Val Leu Leu Arg Glu Gln Ile Ala Leu Leu Tyr Asn
 340 345 350
 Asp Asn Pro Glu Val Val Thr Leu Ala Ser His Leu Met Leu Leu Ala
 355 360 365
 Ala Ile Tyr Gln Ile Ser Asp Ser Ile Gln Val Ile Gly Ser Gly Val
 370 375 380
 Leu Arg Gly Tyr Lys Asp Thr Arg Ser Ile Phe Phe Ile Thr Phe Ile
 385 390 395 400
 Ala Tyr Trp Val Leu Gly Leu Pro Ser Gly Tyr Ile Leu Ala Leu Thr
 405 410 415
 Asp Leu Val Val Asp Arg Met Gly Pro Ala Gly Phe Trp Met Gly Phe
 420 425 430
 Ile Ile Gly Leu Thr Ser Ala Ala Ile Met Met Met Leu Arg Met Arg
 435 440 445
 Phe Leu Gln Arg Gln Pro Ser Thr Val Ile Leu Gln Arg Ala Ala Arg
 450 455 460

465

<210> 6488

<211> 344

<212> PRT

<213> *Enterobacter cloacae*

<400> 6488

His Leu Met Ala Thr Ile Lys Asp Val Ala Lys Arg Ala Asn Val Ser
 1 5 10 15
 Thr Thr Thr Val Ser His Val Ile Asn Lys Thr Arg Phe Val Ala Glu
 20 25 30
 Glu Thr Arg Asn Ala Val Trp Ala Ala Ile Lys Glu Leu His Tyr Ser
 35 40 45
 Pro Ser Ala Val Ala Arg Ser Leu Lys Val Asn His Thr Lys Ser Ile
 50 55 60
 Gly Leu Leu Ala Thr Ser Ser Glu Ala Ala Tyr Phe Ala Glu Ile Ile
 65 70 75 80
 Glu Ala Val Glu Lys Asn Cys Phe Gln Lys Gly Tyr Thr Leu Ile Leu
 85 90 95
 Gly Asn Ala Trp Asn Asn Ile Glu Lys Gln Arg Ala Tyr Leu Ser Met
 100 105 110
 Met Ala Gln Lys Arg Val Asp Gly Leu Leu Val Met Cys Ser Glu Tyr
 115 120 125
 Pro Glu Ser Val Leu Ser Met Leu Glu Glu Tyr Arg His Ile Pro Met
 130 135 140
 Val Val Met Asp Trp Gly Glu Ala Arg Ala Asp Phe Thr Asp Ser Val
 145 150 155 160
 Ile Asp Asn Ala Phe Glu Gly Gly Tyr Met Ala Gly Arg Tyr Leu Val
 165 170 175
 Glu Arg Gly His Arg Glu Ile Gly Val Ile Pro Gly Pro Leu Glu Arg
 180 185 190

Asn Thr Gly Ala Gly Arg Leu Ala Gly Phe Met Lys Ala Met Glu Glu
 195 200 205
 Ala Leu Ile Thr Val Pro Glu Asn Trp Ile Val Gln Gly Asp Phe Glu
 210 215 220
 Pro Glu Ser Gly Tyr Arg Ala Met Gln Gln Ile Val Ser Gln Pro His
 225 230 235 240
 Arg Pro Thr Ala Val Phe Cys Gly Gly Asp Ile Met Ala Met Gly Ala
 245 250 255
 Leu Cys Ala Ala Asp Glu Leu Gly Leu Arg Val Pro Gln Asp Ile Ser
 260 265 270
 Val Ile Gly Tyr Asp Asn Val Arg Asn Ala Arg Phe Phe Thr Pro Ala
 275 280 285
 Leu Thr Thr Ile His Gln Pro Lys Asp Ser Leu Gly Glu Thr Ala Phe
 290 295 300
 Asn Met Leu Leu Asp Arg Ile Val Asn Lys Arg Glu Gln Ser Gln Ser
 305 310 315 320
 Ile Glu Val His Pro Arg Leu Ile Glu Arg Arg Ser Val Ala Asp Gly
 325 330 335
 Pro Phe Arg Asp Tyr Arg Arg
 340

<210> 6489

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 6489

Met His Pro Pro Asn Ile Ser Val Ser Gln Ala Ala Leu His Ser Leu
 1 5 10 15
 His Ser Ala Pro Thr Tyr Thr Cys Leu Leu Arg Arg Lys Lys Val Gln
 20 25 30
 Pro Arg Lys Gly Phe Leu Val Trp Leu Gly Gly Leu Ser Val Leu Gly
 35 40 45
 Phe Leu Ala Thr Asp Met Tyr Leu Pro Ala Phe Ala Ala Met Gln Glu
 50 55 60
 Asp Leu Gln Thr Pro Ala Ala Ala Ile Ser Ala Ser Leu Ser Leu Phe
 65 70 75 80
 Leu Ala Gly Phe Ala Phe Ala Gln Leu Leu Trp Gly Pro Leu Ser Asp
 85 90 95
 Arg Phe Gly Arg Lys Pro Val Leu Leu Gly Leu Ala Ile Phe Ala
 100 105 110
 Ala Gly Cys Leu Gly Met Leu Trp Val Arg Asp Ala Ala Trp Leu Leu
 115 120 125
 Ala Leu Arg Phe Ile Gln Ala Val Gly Val Cys Ala Ala Val Thr
 130 135 140
 Trp Gln Ala Leu Val Thr Asp Tyr Tyr Pro Ala Ser Arg Thr Asn Arg
 145 150 155 160
 Ile Phe Ala Thr Ile Met Pro Leu Val Gly Leu Ser Pro Ala Leu Ala
 165 170 175
 Pro Leu Met Gly Ser Trp Ile Leu Ala His Phe Asp Trp Gln Ala Ile
 180 185 190
 Phe Ala Thr Leu Phe Ala Ile Thr Leu Val Leu Met Leu Pro Ala Phe
 195 200 205
 Gly Leu Lys Pro Ala His Lys Lys Glu Thr His Pro Asp Ala Lys Pro
 210 215 220
 Ile Thr Phe Thr Ser Leu Leu Arg Ser Lys Ala Tyr Arg Gly Asn Val
 225 230 235 240
 Leu Ile Tyr Ala Ala Cys Ser Ala Ser Phe Phe Ala Trp Leu Thr Gly
 245 250 255
 Ser Pro Phe Ile Leu His Asp Met Gly Tyr Ser Pro Ala Ala Ile Gly
 260 265 270

Leu Ser Tyr Val Pro Gln Thr Ile Ala Phe Leu Val Gly Gly Tyr Gly
 275 280 285
 Cys Arg Ala Ala Leu Gln Lys Trp Glu Gly Gln Gln Met Leu Pro Trp
 290 295 300
 Leu Leu Val Leu Tyr Ala Leu Ser Val Ile Ala Thr Trp Ala Val Gly
 305 310 315 320
 Phe Ile Pro Gly Ala Gly Leu Ala Glu Ile Leu Ile Pro Phe Cys Val
 325 330 335
 Met Ala Ile Ala Asn Gly Ala Ile Tyr Pro Ile Val Val Ala Gln Ala
 340 345 350
 Leu Arg Pro Phe Pro Gln Ala Thr Gly Arg Ala Ala Leu Gln Asn
 355 360 365
 Thr Leu Gln Leu Gly Leu Cys Phe Leu Ala Ser Leu Val Val Ser Ala
 370 375 380
 Leu Ile Ala Thr Pro Leu Leu Thr Thr Thr Ser Val Met Leu Ile Thr
 385 390 395 400
 Val Ala Leu Ala Gly Leu Gly Tyr Arg Met Gln Ser Ser Ala Leu Arg
 405 410 415
 Glu Gln Asn Asp Asn Ala Gln Thr Glu Thr Ser His Ala
 420 425 430

<210> 6490

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 6490

Ser Gln Gln Gly Asp Gly Glu Ala Met Ser Ser Ser Cys Ile Glu Glu
 1 5 10 15
 Val Ser Val Pro Asp Asp Asn Trp Ser Arg Ile Val Ser Glu Leu Leu
 20 25 30
 Gly Arg Ala Gly Ile Thr Ile Asn Gly Ser Ser Pro Ser Asp Pro Gln
 35 40 45
 Ile Lys His Pro Asp Phe Phe Lys Arg Val Leu Gln Glu Gly Ser Leu
 50 55 60
 Gly Leu Gly Glu Ser Tyr Met Asp Gly Trp Trp Glu Cys Glu Arg Leu
 65 70 75 80
 Asp Met Phe Phe Ser Ser Val Leu Arg Ala Gly Leu Glu Lys Gln Leu
 85 90 95
 Pro Arg His Phe Lys Asp Thr Leu Arg Ile Ala Ser Ala Arg Leu Phe
 100 105 110
 Asn Leu Gln Ser Lys Lys Arg Ala Trp Ile Val Gly Lys Glu His Tyr
 115 120 125
 Asp Leu Gly Asn Asp Leu Phe Ser Arg Met Leu Asp Pro Leu Met Gln
 130 135 140
 Tyr Ser Cys Gly Tyr Trp Lys Lys Ala Thr Thr Leu Glu Glu Ala Gln
 145 150 155 160
 Gln Asp Lys Leu Gln Leu Ile Cys Asp Lys Leu Gln Leu Gln Pro Gly
 165 170 175
 Met Arg Val Leu Asp Ile Gly Cys Gly Trp Gly Gly Leu Ala Trp Phe
 180 185 190
 Met Ala Lys Asn Tyr Gly Val Ser Val Val Gly Val Thr Ile Ser Ala
 195 200 205
 Glu Gln Gln Lys Met Ala Gln Glu Arg Cys Leu Gly Leu Asp Val Asp
 210 215 220
 Ile Arg Leu Gln Asp Tyr Arg Asp Leu Asn Glu Gln Phe Asp Arg Ile
 225 230 235 240
 Val Ser Val Gly Met Phe Glu His Val Gly Pro Lys Asn Tyr Lys Thr
 245 250 255
 Tyr Phe Glu Val Ala Asp Arg Asn Leu Lys Pro Asp Gly Ile Phe Leu
 260 265 270

Leu His Thr Ile Gly Ser Lys Arg Thr Asp Asn Asn Val Asp Pro Trp
 275 280 285
 Ile Asn Lys Tyr Ile Phe Pro Asn Gly Cys Leu Pro Ser Val Arg Gln
 290 295 300
 Ile Ala Asn Ala Ser Glu Pro His Phe Ile Val Glu Asp Trp His Asn
 305 310 315 320
 Phe Gly Ala Asp Tyr Asp Thr Thr Leu Met Ala Trp His Glu Arg Phe
 325 330 335
 Gln Ala Ala Trp Pro Glu Ile Ala Asp Asn Tyr Ser Glu Arg Phe Lys
 340 345 350
 Arg Met Phe Ser Tyr Tyr Leu Asn Ala Cys Ala Gly Ala Phe Arg Ala
 355 360 365
 Arg Asp Ile Gln Leu Trp Gln Val Val Phe Ser Arg Gly Ile Glu His
 370 375 380
 Gly Leu Arg Val Ala Arg
 385 390

<210> 6491

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 6491

Ala Arg Trp Ala Ala Pro Ser Ala Ala Tyr Ser Ala Trp Trp Ala Ala
 1 5 10 15
 Ser Ser Ala Val Ser Ser Ala Pro Lys Arg Glu Ala Arg Cys Thr His
 20 25 30
 Gly Pro His Cys Arg Ala Ile Phe Leu Phe Gln Pro Arg Ile Ile Met
 35 40 45
 Phe Ser Leu Phe Gln Tyr Lys Lys Gln Gly Lys Thr Pro Val Ile Arg
 50 55 60
 Gln His Glu Phe Thr Glu Cys Gly Leu Ala Cys Leu Ala Met Val Leu
 65 70 75 80
 Gly His Tyr Asp His His Val Ser Val Ser Gln Leu Arg Arg Glu Ile
 85 90 95
 Ser Val Ser Ala Asp Ala Gly Thr Ser Met Ala Glu Leu Met Thr Leu
 100 105 110
 Ala Ser Asp Lys Asn Met Ser Gly Arg Val Leu Lys Gly Glu Ile Thr
 115 120 125
 Glu Ile Glu Thr Ser Glu Leu Pro Leu Ile Ala Phe Trp Arg Gly Asn
 130 135 140
 His Phe Val Val Ile Val Lys Ile Asp Ser Arg Ser Val Thr Val His
 145 150 155 160
 Asp Pro Ala Ser Gly Val Arg Arg Tyr Arg Leu Lys Glu Ala Glu Lys
 165 170 175
 Leu Phe Ser Gly Tyr Val Leu Glu Leu Lys Pro Thr Pro Cys Phe Glu
 180 185 190
 Lys Lys Ser Pro Asp Glu Thr Leu Thr Leu Gly Arg Leu Ala Asn Lys
 195 200 205
 Ser Pro Ser Leu Phe Gln Arg Gln Leu Leu Leu Phe Val Leu Cys Ile
 210 215 220
 Phe Thr Leu Ile Thr Met Leu Ala Ser Pro Thr Tyr Val Gln Leu Ile
 225 230 235 240
 Met Asp Glu Ala Ile Ser Arg Ser Asp Ser Asp Leu Val Ile Leu Leu
 245 250 255
 Thr Ala Ile Phe Ala Ile Val Phe Ile Phe Glu Val Ile Gly Lys Phe
 260 265 270
 Leu Lys Gln Leu Leu Glu Ile Leu Met Arg Asn Ile Ala Tyr Asp Asp
 275 280 285
 Leu Ser Gln Ser Val Arg His Tyr Met Leu Arg Thr Gln Thr Ser Trp
 290 295 300

Phe Arg Ser Arg Pro Pro Gly Ile Val Leu Ala Ile Glu Lys Ser Leu
 305 310 315 320
 His Ala Cys Ala Glu Phe Ile Ser Asn Gly Tyr Val Gln Ile Leu Phe
 325 330 335
 Ser Ser Leu Ile Ala Val Thr Ser Leu Leu Phe Met Leu Leu Tyr Asn
 340 345 350
 Val Gln Ile Ala Leu Ala Asp Asn Ala Ala Asp Gly
 355 360

<210> 6492

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 6492

Met Asn Lys Leu Asn Ala Ile Val Leu Gly Ser Leu Leu Ser Val Ser
 1 5 10 15
 Ala Leu Ser Ala Val Asn Ala Ala Glu Thr Thr Ala Ser Ala Thr Trp
 20 25 30
 Gln Ala Thr Ala Thr Lys Asp Ser Glu Ser Asp Leu Val Val Thr Pro
 35 40 45
 Thr Arg Ala Leu Asn Phe Val Tyr Ser Ala Asn Thr Lys Ser Phe Asn
 50 55 60
 Thr Asp Thr Gly Leu Phe Asp Val Ala Ile Arg Gly Asp His Ser Thr
 65 70 75 80
 Ala Thr Ser Phe Lys Leu Glu Ala Ile Leu Asp Asp Ser Asn Asn Thr
 85 90 95
 Leu Phe Ser Val Gly Gly Glu Ala Thr Lys Leu Lys Val Gly Ala Arg
 100 105 110
 Trp Gly Gly Asn Asp Leu Gly Ser Ile Gly Gly Thr Val Gly Ala Lys
 115 120 125
 Ser Thr Ala Trp Thr Thr Leu Val Asp Ser Ser Ser Asn Thr Gly Val
 130 135 140
 Ser Ser Gly Leu Trp Asn Leu Thr Thr Ser Ala Gly Ala Ala Ala Asp
 145 150 155 160
 Thr Glu Ile Thr Gly Gln Asp Lys Phe Val Phe Tyr Val Asp Ser Ala
 165 170 175
 Gln Asp Asn Ala Gly Thr Ala Lys Glu Phe Lys Asp Leu Thr Asn Ser
 180 185 190
 Leu Trp Glu Gly Thr Val Ser Val Ala Phe Arg Ala Thr Trp Gly
 195 200 205

<210> 6493

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 6493

Gly Asn Ser Met Phe Asn Leu Lys Ser Ala Phe Leu Phe Leu Leu Phe
 1 5 10 15
 Ile Ser Ser Ser Ala Leu Ala Ile Asn Val Gly Lys Val Thr Thr Ile
 20 25 30
 Ile Ser Ala Asp Ala Asp Ser Thr Ala Lys Glu Ile Lys Asn Glu Ala
 35 40 45
 Asp Ser Val Arg Ile Val Ser Val Arg Ala Gln Arg Ile Ser Ser Pro
 50 55 60
 Met Asp Glu Gly Ile Val Ile Asn Pro Glu Lys Val Asp Glu Leu Leu
 65 70 75 80
 Leu Thr Pro Thr Arg Met Val Met Pro Ala Gly Thr Ser Asn Ile Val
 85 90 95
 Lys Phe Tyr Tyr His Gly Asn Ala Asp Asn Lys Glu Arg Tyr Tyr Arg

100 105 110
 Ile Thr Phe Thr Asp Glu Gly Val Ser Glu Glu Val Asp Ser Gly Ser
 115 120 125
 Pro Lys Asn Gly Thr Gly Met Thr Arg Ala Val Val Ser Thr Ile Leu
 130 135 140
 Val Val Gln Pro Arg Asp Lys Lys Ile Asp Phe Val Tyr Val Ala Gly
 145 150 155 160
 Lys Ile Thr Asn Lys Gly Asn Thr Ser Phe Arg Val Asn Ala Thr Gly
 165 170 175
 Thr Cys Leu Lys Pro Asn Pro Glu Ser Pro Gly Thr Pro Cys Ser Lys
 180 185 190
 Asn Phe Tyr Leu Met Pro Glu Thr Ser Arg Ala Ile Glu Asp Ile Asn
 195 200 205
 Val Thr Asp Asn His Phe His Leu Gly Ile Trp Asp Leu Lys Gln Phe
 210 215 220
 Ile Pro Val Lys
 225

<210> 6494

<211> 867

<212> PRT

<213> Enterobacter cloacae

<400> 6494

Gly Cys Met Val Lys Asn Lys Leu Val Leu Pro Val Met Met Ala Cys
 1 5 10 15
 Ala Ser Gly Thr Leu Pro Ala Leu Ala His Ala Ala Ser Ser Ser Val
 20 25 30
 Val Ile Ala Asn Tyr Arg Phe Pro Asp Ser Leu Tyr Ala Leu Leu Glu
 35 40 45
 Gln Gly Ile Lys Ile Pro Val Tyr Leu Val Asn Thr Arg Pro His Ser
 50 55 60
 Ala Gln Gln Gly Asn His Glu Gly Thr Ala Ser Glu Tyr Val Arg Ile
 65 70 75 80
 Gly Asp Val Thr Leu Phe Ala Lys Asp Leu Lys Leu Gly Leu Arg Asp
 85 90 95
 Val Gln Val Gln Glu Ser Asp Asn Gly Ile Arg Leu Ser Lys Glu Met
 100 105 110
 Arg Ala Leu Leu Gln Ser Ile Asn Asp Lys Gln Phe Asp Asp Gln Met
 115 120 125
 Arg Ile Pro Val Ser Ala Gly Ser Ala Phe Glu Leu Asp Gln Lys Lys
 130 135 140
 Met Arg Leu Leu Leu Asn Leu Ser Gln Ser Asp Tyr Gly Val Asn Ile
 145 150 155 160
 Arg Leu Arg Glu Val Asp Ile Asp Ala Pro Glu Ser Asp Asp Leu Ser
 165 170 175
 Gly Thr Phe Ser Tyr Asn Leu Gly Ala Tyr His Thr Glu Ser Gly Tyr
 180 185 190
 Gly Asp Ser Trp Ser Ser Gly Tyr Leu Asn Ala Arg Asn Trp Ile Ser
 195 200 205
 Met Gly Val Asp His Val Leu Ile Asp Gly Ser Gly Tyr Val Asn Glu
 210 215 220
 Ser Ser Ser Asp Thr Gln Met Asn Ala Val Met Trp Glu Arg Asp Tyr
 225 230 235 240
 Gln Gly Met Arg Tyr Ala Ala Gly Met Leu Asn Gly Trp Ala Met Gln
 245 250 255
 Ser Leu Ala Ser Val Ser Gly Ile Ser Gly Gly Glu Val Tyr Gly Val
 260 265 270
 Ser Met Gly Asn Gln Ala Asn Ser Arg Lys Arg Asp Asn Thr Leu Ser
 275 280 285
 Leu Thr Pro Val Val Val Tyr Phe Pro Thr Ala Gly Glu Ala Arg Ile

290	295	300
Arg Arg Asp Gly Gln Leu Ile Gly Ile Gln Arg Phe Asp Val Gly Asn		
305	310	315
His Glu Ile Asp Thr Ser Ser Leu Pro Tyr Gly Ile Tyr Ser Ile Glu		320
	325	330
		335
Val Glu Val Val Ser Gly Ser Arg Thr Val Ser Arg Asn Met Tyr Thr		
	340	345
		350
Val Asn Lys Pro Phe Ser Ser Asn Val Ser Glu Thr Leu Arg Trp Gln		
	355	360
		365
Met Trp Gly Gly Met Tyr Ser Arg Asp Lys Ser Val Val Asn Tyr Lys		
	370	375
		380
Lys Tyr Ala Lys Arg Lys Asn Glu Gln Asp Asn Thr Tyr Asn Tyr Asp		
385	390	395
		400
Tyr Asp Thr Lys His Lys Asp Thr Met Ser Leu Val Gly Ala Ser Phe		
	405	410
		415
Ser Lys Arg Ser Gly Met Val Asp Trp Asn Ala Ser Thr Tyr Met Met		
	420	425
		430
Arg Glu His Ile Val Ser Glu Leu Trp Ala Ser Leu Asn Leu Thr Gly		
	435	440
		445
Tyr Phe Ser Val Asn Thr Gln Thr Met Ala Ala Ser Asp Gly Thr Tyr		
	450	455
		460
Arg Ala Asn Tyr Gly Ala Asn Leu Ser Leu Pro Trp Gln Ile Gly Ser		
465	470	475
		480
Val Trp Tyr Ser His Glu Gln Leu Ser Ser Gly Lys Phe Leu Asp Ile		
	485	490
		495
Tyr Glu Ser Lys Gly Asn Thr Trp Gly Ala Ser Phe Ser Leu Pro Ser		
	500	505
		510
Phe Gly Leu Pro Ser Ala Gly Asn Leu Ser Leu Met Arg Gln Glu Asp		
	515	520
		525
Asp Leu Tyr Arg Tyr Lys Arg Tyr Gln Leu Asp Tyr Ser Gln Gly Leu		
	530	535
		540
Tyr Ala Gly Arg Tyr Gly Thr Ala Arg Leu Arg Val Gly Met Ser Arg		
545	550	555
		560
Asn Lys Tyr Asp Gly Tyr Tyr Glu Glu Lys Asp Arg Tyr Val Met Leu		
	565	570
		575
Asp Phe Ala Ile Pro Leu Gly Asn Thr Val Ser Val Gly Val Ser His		
	580	585
		590
Asn Arg Asp Thr Gly Thr Ala Leu Asn Val Ser Ala Ser Arg Gln Phe		
	595	600
		605
Glu Gly Asp Tyr Leu Lys Ser Ala Thr Ala Asn Val Ser Lys Ala Phe		
	610	615
		620
Asn Ser Arg Gln Asp Arg Ser Val Ser Gly Gly Ser Val Asn Phe		
625	630	635
		640
Asp Thr Pro Trp Asn Ser Asn Ile Leu Ser Val Gln Ser Gly Met Ser		
	645	650
		655
Lys Gly Trp Asn Ser Thr Leu Thr Ser Asp Gly Ser Val Gly Trp Ser		
	660	665
		670
Lys Glu Ala Ile Ala Ala Gly Lys Gly Thr Glu Ser Ala Gly Val Ile		
	675	680
		685
Val Ser Thr Gly Leu Lys Ser Asp Glu Ala Leu Thr Leu Lys Leu Asn		
	690	695
		700
Gly Arg Ala Glu Arg Ile Lys Gly Asp Lys Thr Trp Leu Ser Leu Pro		
705	710	715
		720
Ala Tyr Gln Ala Tyr Asp Leu Glu Val Met Asn Ser Glu Thr Gly Thr		
	725	730
		735
Glu Ser Tyr Glu Ile Gly Ala Asn Ala Arg His Ile Thr Val Tyr		
	740	745
		750
Pro Gly Asn Thr Val Val Met Lys Pro Gln Val Lys Lys Ile Val Thr		
	755	760
		765
Leu Phe Gly Arg Leu Val Asp Ala Asn Gly Ala Pro Ile Gly Ala Met		
770	775	780

Gln Ile Lys Asn His Val Gly Leu Thr Arg Thr Glu Asn Asp Gly Arg
 785 790 800
 Phe Val Ile Asp Val Asp Lys Asn Asn Pro Val Leu Ser Ile Ala Thr
 805 810
 Pro Asp Asp Ser Val Cys Glu Val Arg Leu Asp Ile Glu Ser Asn Arg
 820 825 830
 Gly Ala Leu Trp Leu Gly Asp Ile Ser Cys Asp Lys Gly Asp Phe Val
 835 840 845
 Trp Gln Glu Ala Lys Gly Thr Gln Glu Arg Asp Asp Glu Lys Asp Ile
 850 855 860
 Arg Ser
 865

<210> 6495

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 6495

Ala Met Arg Gly Ser Phe Ala Leu Val Val Lys Ile Thr Met Leu Tyr
 1 5 10 15
 Glu Val Asp Thr Gly Met Ile Met Ile Asn Gly Glu Glu Ser Ser
 20 25 30
 Ile Lys Leu Ser Asn Gln Ala Gly Arg Leu Leu Tyr Glu Leu Ile Ile
 35 40 45
 Asn Asn Gly Lys Thr Leu Asp Arg Asp Asp Leu Ile Lys Lys Val Trp
 50 55 60
 Glu Asp His Gly Phe Ser Gly Ser Ser Val Ser Leu Asn Val Ala Ile
 65 70 75 80
 Ser Glu Ile Arg Lys Ala Phe Arg Thr Leu Gly Cys Asp Pro Leu Leu
 85 90
 Ile Lys Thr Ile Arg Gly Lys Gly Phe Ser Leu Ala Ala His Ile Glu
 100 105 110
 His His Thr Val Arg Pro Pro Val Val Ser Thr Leu Ser Glu Gln Ser
 115 120 125
 Ala Ser Glu Ser Phe Asp Thr Leu Ala His Lys Lys Asp Ala Asp Pro
 130 135 140
 Pro Lys Gln Leu Ile Ser Leu His Arg Leu Phe Ile Ser Leu Cys Thr
 145 150 155 160
 Leu Leu Leu Ile Thr Val Ile Gly Thr Ala Val Leu Leu Leu His Gln
 165 170 175
 Arg Asp Ser Tyr Ala Glu Ser Leu Lys Asp Ser Asp Met His Leu Leu
 180 185 190
 Gly Lys Val Asp Arg Cys Thr Val Tyr Leu Ile Asp Lys Asn Met Tyr
 195 200 205
 Gln Pro Arg Gln His Tyr Phe Asn His Val Lys Glu Val Ile Ala Ser
 210 215 220
 Gln His Ile Asp Cys Gln His Gln Val Ala Asp Ala Tyr Tyr Ser Arg
 225 230 235 240
 Phe Lys Lys Ser Gln Ile Glu Asn Tyr Phe Leu Ala Ile Cys Tyr Gln
 245 250 255
 Gln Asp Ser Ile Asp Asp Tyr Lys Asn Cys Ile Ser Tyr Arg Ser Leu
 260 265 270
 Thr Gly Ser
 275

<210> 6496

<211> 580

<212> PRT

<213> Enterobacter cloacae

<400> 6496

Val	Ser	Pro	Arg	Arg	Thr	Thr	Ala	Ser	Ala	Lys	Cys	Ala	Trp	Thr	Ser		
1				5					10					15			
Ser	Leu	Thr	Ala	Val	Arg	Cys	Gly	Leu	Gly	Thr	Ser	Pro	Ala	Thr	Lys		
			20					25					30				
Ala	Ile	Ser	Ser	Gly	Arg	Lys	Gln	Lys	Glu	Arg	Arg	Asn	Val	Thr	Met		
		35					40					45					
Lys	Lys	Ile	Phe	Ala	Leu	Asn	Leu	Leu	Met	Ser	Ser	Ala	Ala	Ala	Gln		
	50					55				60							
Ala	Gln	Glu	Leu	Pro	Tyr	Phe	Ala	Ile	Asn	Asn	Pro	Asp	Asn	Asn	Gly		
65					70					75				80			
Thr	Gly	Asn	Ser	Ala	Gly	Leu	Phe	Ser	Leu	Asn	Ser	Thr	Ser	Thr	Ala		
				85					90					95			
Phe	Leu	His	Gly	Ser	Arg	Glu	Trp	Pro	Thr	Leu	Ser	Ala	Lys	Thr	Asn		
			100					105					110				
Asn	Gly	Ile	Ala	Thr	Tyr	Ile	Pro	Asp	Asn	Ser	Phe	Asn	Gly	Pro	Ala		
			115				120					125					
Gly	Ser	Ala	Leu	Thr	Ile	Asp	Phe	Ser	Val	Thr	Gly	Ser	Ser	Ala	Ser		
	130					135					140						
Pro	Phe	Phe	Lys	Gly	Thr	Ala	Cys	Ser	Ser	Ser	Cys	Gly	Asn	Thr	Gly		
145					150					155				160			
Tyr	Thr	Pro	Thr	Thr	Ser	Tyr	Thr	Asp	Thr	Ser	Met	Val	Val	Lys	Pro		
				165					170					175			
Pro	Val	Met	Glu	Pro	Gly	Thr	Ser	Tyr	Gly	Arg	Trp	Val	Leu	Gly	Asp		
			180				185					190					
Pro	Phe	Phe	Asn	Tyr	Leu	Leu	Asn	Ala	Ala	Pro	Gly	Asp	Glu	Val	Thr		
		195					200					205					
Ile	Thr	Ser	Thr	Pro	Gln	Ile	Ser	Ser	Ile	Asn	Lys	Val	Thr	Thr	Thr		
	210					215					220						
Asn	Thr	Leu	His	Lys	Val	Gly	Thr	Leu	Thr	Met	Thr	Asn	Ser	Arg	Ala		
225					230					235				240			
Leu	Asn	Leu	Gly	Ile	Asp	Pro	Ile	Ser	Gly	Glu	Val	Thr	Ile	Val	Asp		
			245						250					255			
Gly	Ser	Thr	Gly	Ala	Thr	Cys	Thr	Lys	Tyr	Thr	Arg	Asn	Thr	Val	Ser		
			260					265					270				
Gly	Val	Leu	Cys	Asp	Leu	Leu	Glu	Tyr	Thr	Phe	Val	Gly	Glu	Asp	Ile		
		275					280					285					
Ser	Gly	Tyr	Asn	Gly	Gly	Leu	Ala	Leu	Thr	Ser	Ser	Arg	Val	Asn	Ser		
		290				295					300						
Val	Leu	Gln	Ser	His	Met	Ser	Gly	Gly	Thr	Gly	Leu	Ala	Ala	Glu	Leu		
305					310					315				320			
Thr	Phe	Asp	Glu	Asn	Thr	Trp	Tyr	Ser	Ile	Ser	Gly	Gly	Ile	Leu	Ser		
			325						330				335				
Asp	Thr	Arg	Val	Leu	Ala	Asn	Thr	Phe	Leu	Ala	Ala	Pro	Gln	Lys	Asn		
			340				345						350				
Gly	Gly	Lys	Ala	Tyr	Leu	Lys	Ile	Phe	Leu	Pro	Lys	Ala	Leu	Ile	Leu		
		355				360						365					
Ser	Val	Ala	Gln	Ala	Gly	Asp	Gly	Ser	Asn	Ile	Gly	Asn	Ile	Val	Ser		
		370				375					380						
Leu	Cys	Leu	Thr	Pro	Gly	Asn	Ser	Ser	Leu	Ala	Ala	Asp	Phe	Cys	Phe		
385					390					395				400			
Gln	Pro	Gly	Gly	Gly	Leu	Val	Ile	Asn	Pro	Ile	Glu	Pro	Gly	Leu	Glu		
			405						410					415			
Ile	Val	Pro	Asp	Asn	Pro	Asp	Tyr	Thr	Leu	Asp	Pro	Asp	Gly	Leu	Gly		
			420					425					430				
Gly	Ser	Gly	Lys	Gly	Ile	Ile	Gly	Glu	Ala	Pro	Ile	Glu	Ile	Pro	Tyr		
		435				440						445					
Thr	Ile	Thr	Tyr	Ser	Gly	Ala	Gln	Lys	Asp	Ala	Ala	Ile	Ala	Val	Thr		
		450				455					460						
Val	Lys	Val	Thr	Gly	Pro	Thr	Gln	Ser	Leu	Asn	Gly	Val	Asp	Tyr	Cys		
465					470					475				480			

Ala Phe Ser Gly Asn Gly Phe Thr Val Pro Ile Pro Gly Asn Val Leu
 485 490 495
 Val Gly Lys Ser Gln Thr Leu Met Ala His Asn Cys Lys Gly Glu Val
 500 505 510
 Leu Ser Ile Pro Ala Pro Ala Thr His Ala Glu Glu Trp Asp Lys Met
 515 520 525
 Ser Ser Gly Val Thr Asp Met Trp Leu Trp Lys Thr Pro Leu Ile Leu
 530 535 540
 Gln Phe Val Met Asp Asn Pro Val Ser Lys Thr Tyr Asp Gly Asn
 545 550 555 560
 Ser Trp Phe Gly Glu Val Thr Ala Gln Gly Arg Ile Asp Val Ser Ala
 565 570 575
 Ser Trp Asn
 580

<210> 6497
 <211> 220
 <212> PRT
 <213> Enterobacter cloacae

<400> 6497
 Ser Thr Met Thr Gly Lys Phe Leu Ala Ile Phe Ala Ile Asn Cys Phe
 1 5 10 15
 Ile Ser Thr Gly Ala Asn Ala Leu Ile Glu Ser Leu Asn Ile Asp
 20 25 30
 Phe Leu Pro Glu Arg Glu Val Val Phe Gln Pro Ile Lys Asn Asp Thr
 35 40 45
 Ser Glu Arg Gln Asn Tyr Thr Val Ser Leu Ile Gln Val Asp Val Pro
 50 55 60
 Lys Glu Lys Gly Lys Glu Thr Glu Ile Lys Asp Gly Glu Val Met Tyr
 65 70 75 80
 Ser Pro Lys Gln Leu Thr Leu Gly Ser Gly Glu Arg Ala Gly Phe Lys
 85 90 95
 Phe Tyr Tyr Thr Gly Pro His Asp Asn Lys Glu Arg Tyr Tyr Arg Val
 100 105 110
 Lys Phe Thr Glu Thr Pro Leu Gln Ala Lys Val Ile Thr Arg Lys Gly
 115 120 125
 Gln Arg Ile Gln Ser Asp Val Val Val Ser Leu Glu Ala Ile Leu Ile
 130 135 140
 Val Arg Pro Trp Thr Arg His Phe Asp Tyr Ala Phe Ser Asn Gly Val
 145 150 155 160
 Val Ser Asn Thr Gly Asn Thr Tyr Phe Lys Tyr Val Ser Ser Val Gly
 165 170 175
 Cys Ser Thr Gln Tyr Asn Asn Ser Lys Tyr Ile Pro Pro Gly Gln Arg
 180 185 190
 Leu Glu Ile Asp Asn Ala Gly Gln Ala Ala Arg Arg Met Ile Ile Tyr
 195 200 205
 Gly Asn Lys Ile Ile Pro Leu Thr Thr Cys Pro
 210 215 220

<210> 6498
 <211> 357
 <212> PRT
 <213> Enterobacter cloacae

<400> 6498
 Glu Glu Pro Met Met Lys Asn Thr Thr Tyr Leu Thr Asp Glu Asp Arg
 1 5 10 15
 Trp Gln Ala Val Leu Ala Arg Asp Pro Arg Ala Asp Asn Gln Phe Val
 20 25 30
 Phe Ala Val Gln Thr Thr Gly Ile Tyr Cys Arg Pro Ser Cys Arg Ala

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      35      40      45
Arg His Ala Leu Arg Lys Asn Val Cys Phe Tyr Pro Asp Ala His Gln
50      55      60
Ala Ala Gln Ala Gly Phe Arg Pro Cys Lys Arg Cys Arg Pro Asp Gln
65      70      75      80
Gly Asp Pro Met Ala Gln Lys Lys Ala Asn Ile Ala Leu Ala Cys Arg
85      90      95
Leu Leu Glu Gln Asp Ala Ser Leu Asn Leu Glu Ala Leu Ala Gln Gln
100      105      110
Val Ala Met Ser Pro Phe His Phe His Arg Leu Phe Lys Ser Val Thr
115      120      125
Gly Met Thr Pro Lys Ala Trp Gln Gln Ala Ala Arg Glu Gln Arg Leu
130      135      140
Arg Ser Leu Leu Ala Gln Gly Gly Lys Ile Thr Asp Ala Val Leu Ala
145      150      155      160
Ala Gly Phe Pro Asp Gly Ser Ser Tyr Tyr Arg Lys Ala Asn Gly Ala
165      170      175
Leu Gly Met Thr Ala Lys Gln Tyr Arg Asn Gly Glu Ala Ala Val Arg
180      185      190
Tyr Ala Ile Ser Asp Cys Ser Leu Gly Arg Cys Leu Val Ala Glu Ser
195      200      205
Glu Arg Gly Ile Cys Ala Ile Leu Leu Gly Asp Asp Ala Gly Leu
210      215      220
Thr Ala Glu Leu Leu Ser Leu Phe Pro Leu Ala Val Arg Glu Pro Met
225      230      235      240
Glu Gly Ala Phe Ala Gly Arg Val Arg Gln Val Ile Ala Ser Val Asp
245      250      255
Ser Arg Ala Thr Ser Leu Thr Leu Pro Leu Asp Ile Arg Gly Thr Ala
260      265      270
Phe Gln Gln Gln Val Trp Gln Ala Leu Arg Ala Ile Pro Cys Gly Glu
275      280      285
Thr Ala Ser Tyr Gln Gln Val Ala Lys Ala Ile Gly Lys Pro Asn Ala
290      295      300
Val Arg Ala Val Ala Gly Ala Cys Gly Ala Asn Lys Leu Ala Ile Val
305      310      315      320
Ile Pro Cys His Arg Val Val Arg Asn Asp Gly Ala Leu Ser Gly Tyr
325      330      335
Arg Trp Gly Ala Ala Arg Lys Val Leu Leu Lys Arg Glu Ala Asn
340      345      350
Asn Pro Glu Glu
355

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<210> 6499

<211> 556

<212> PRT

<213> Enterobacter cloacae

<400> 6499

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Phe Phe Leu Ser Gly Leu Leu Cys Met Gln Leu Leu Leu Leu Val Trp
1      5      10      15
Arg Gln Tyr Arg Trp Pro Phe Ile Ala Val Met Ala Leu Ser Leu Ala
20      25      30
Ser Ala Ala Leu Gly Ile Gly Leu Ile Ala Phe Ile Asn Val Arg Leu
35      40      45
Ile Glu Met Val Asp Thr Ser Leu Ser Val Leu Pro Glu Phe Leu Gly
50      55      60
Leu Leu Leu Leu Leu Met Ala Val Thr Leu Gly Ser Gln Leu Ala Leu
65      70      75      80
Thr Ala Leu Gly His His Phe Val Phe Arg Leu Arg Ser Glu Phe Ile
85      90      95
Lys Arg Ile Leu Asp Thr Gln Val Glu Arg Ile Glu Gln Leu Gly Ser

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100 105 110
 Ala Ser Leu Leu Ala Gly Leu Thr Ser Asp Val Arg Ala Ile Thr Ile
 115 120 125
 Ala Phe Val Arg Leu Pro Glu Leu Val Gln Gly Ile Ile Leu Thr Phe
 130 135 140
 Gly Ser Ala Ala Tyr Leu Ala Trp Leu Ser Ser Lys Met Leu Ala Val
 145 150 155 160
 Thr Ala Leu Trp Ile Val Ile Thr Ile Trp Gly Gly Phe Leu Leu Val
 165 170 175
 Ser Arg Val Tyr Lys His Met Ala Val Leu Arg Glu Thr Glu Asp Lys
 180 185 190
 Leu Tyr Asn Asp Tyr Gln Thr Val Leu Glu Gly Arg Lys Glu Leu Thr
 195 200 205
 Leu Asn Arg Glu Arg Ala Glu His Ile Phe Asn His Leu Tyr Ile Pro
 210 215 220
 Asp Ala His Glu Tyr Arg His His Ile Ile Arg Ala Asp Thr Phe His
 225 230 235 240
 Leu Ser Ala Val Asn Trp Ser Asn Ile Met Met Leu Gly Ala Ile Gly
 245 250 255
 Leu Val Phe Trp Met Ala Asn Ser Leu Gly Trp Ala Asp Thr Asn Val
 260 265 270
 Ala Ala Thr Tyr Ser Leu Thr Leu Leu Phe Leu Arg Thr Pro Leu Leu
 275 280 285
 Ser Ala Val Gly Ala Leu Pro Thr Leu Leu Ser Ala Gln Val Ala Phe
 290 295 300
 Asn Lys Leu Lys Lys Phe Asp Leu Ala Pro Phe Lys Ala Glu Phe Pro
 305 310 315 320
 Arg Pro Gln Ala Phe Pro Asn Trp Gln Thr Leu Glu Leu Arg Asn Val
 325 330 335
 Thr Phe Arg Tyr Gln Asp Asn Ala Phe Ser Val Gly Pro Ile Asn Leu
 340 345 350
 Thr Ile His Arg Gly Glu Leu Leu Phe Leu Ile Gly Gly Asn Gly Ser
 355 360 365
 Gly Lys Ser Thr Leu Ala Met Leu Leu Thr Gly Leu Tyr Gln Pro Gln
 370 375 380
 Ser Gly Glu Ile Leu Leu Asp Gly Lys Ala Leu Ser Ala Glu Lys Pro
 385 390 395 400
 Glu Asp Tyr Arg Lys Leu Phe Ser Ala Val Phe Thr Asp Val Trp Leu
 405 410 415
 Phe Asp Arg Leu Leu Gly Pro Glu Gly Gln Gln Ala Asp Pro Ala Leu
 420 425 430
 Val Glu Lys Trp Leu Ala His Leu Gln Met Ser His Lys Leu Glu Leu
 435 440 445
 Gln Asp Gly Lys Ile Leu Asn Leu Lys Leu Ser Lys Gly Gln Lys Lys
 450 455 460
 Arg Val Ala Leu Leu Leu Ala Leu Ala Glu Glu Arg Asp Ile Ile Leu
 465 470 475 480
 Leu Asp Glu Trp Ala Ala Asp Gln Asp Pro His Phe Arg Arg Glu Phe
 485 490 495
 Tyr Gln Val Leu Leu Pro Leu Met Gln Ala Met Gly Lys Thr Ile Phe
 500 505 510
 Ala Ile Ser His Asp Asp His Tyr Phe Ile His Ala Asp Arg Leu Leu
 515 520 525
 Glu Met Arg Asp Gly Lys Leu Ser Glu Leu Thr Gly Asp Glu Arg Asp
 530 535 540
 Ala Ala Ser Arg Asp Ala Val Ala Arg Thr Ala
 545 550 555

<210> 6500

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6500

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Leu Cys Pro Val Pro Gly Ser Leu Val Gly Glu Asp Asp Leu Tyr Gly
1      5      10      15
Lys Val Asp Gly Leu His Tyr Phe Ser Asp Asp Asp Ser Ala Asp Gly
20      25      30
Asp Gln Thr Tyr Met Arg Leu Gly Phe Lys Gly Glu Thr Gln Val Asn
35      40      45
Asp Gln Leu Thr Gly Tyr Gly Gln Trp Glu Tyr Gln Ile Gln Gly Asn
50      55      60
Ser Gly Glu Asn Glu Asn Asn Ser Trp Thr Arg Val Ala Phe Ala Gly
65      70      75      80
Leu Lys Phe Ala Asp Ala Gly Ser Phe Asp Tyr Gly Arg Asn Tyr Gly
85      90      95
Val Val Tyr Asp Val Thr Ser Trp Thr Asp Val Leu Pro Glu Phe Gly
100      105      110
Gly Asp Thr Tyr Gly Ser Asp Asn Phe Met Gln Gln Arg Gly Asn Gly
115      120      125
Phe Ala Thr Tyr Arg Asn Gln Asp Phe Phe Gly Leu Val Asp Gly Leu
130      135      140
Asn Phe Ala Leu Gln Tyr Gln Gly Lys Asn Gly Ser Ala Ser Gly Glu
145      150      155      160
Gly Gln Thr Asn Asn Gly Arg Glu Ala Leu Arg Gln Asn Gly Asp Gly
165      170      175
Tyr Gly Gly Ser Leu Thr Tyr Asp Leu Gly Glu Gly Phe Ala Ile Gly
180      185      190
Thr Ala Val Thr Ser Ser Lys Arg Thr Ala Asp Gln Asn Ala Ala Gly
195      200      205
Tyr Tyr Gly Glu Gly Asp Arg Ala Glu Thr Tyr Thr Gly Gly Leu Lys
210      215      220
Tyr Asp Ala Asn Asn Ile Tyr Leu Ala Ala Gln Tyr Thr Gln Thr Tyr
225      230      235      240
Asn Ala Thr Arg Ala Gly Asp Leu Gly Trp Ala Asn Lys Ala His Asn
245      250      255
Phe Glu Val Val Ala Gln Tyr Gln Phe Asp Phe Gly Leu Arg Pro Ser
260      265      270
Val Ala Tyr Leu Gln Ser Lys Gly Lys Asp Leu Glu Asn Gly Tyr Gly
275      280      285
Asp Gln Asp Leu Leu Lys Tyr Val Asp Val Gly Ala Thr Tyr Tyr Phe
290      295      300
Asn Lys Asn Met Ser Thr Tyr Val Asp Tyr Lys Ile Asn Leu Val Asp
305      310      315      320
Glu Asn Asp Phe Thr Arg Ala Ala Gly Ile Gly Thr Asp Asp Ile Val
325      330      335
Ala Leu Gly Leu Val Tyr Gln Phe
340      345

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<210> 6501

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 6501

```

Pro Met Asp Met Thr Phe Leu Arg Ala Ser Val Leu Ala Thr Phe Leu
1      5      10      15
Leu Leu Thr Ala Cys Asp Ser Ser Thr Gln Pro Ala Lys Ile Asp Ala
20      25      30
Pro Ala Ala Thr Val Leu Glu Gly Lys Thr Met Gly Thr Phe Trp Arg
35      40      45
Val Ser Val Met Asp Ile Asp Lys Ser Arg Ala Glu Glu Leu Arg Gly

```

```

      50              55              60
Lys Ile Gln Ala Gln Leu Asp Ala Asp Gln Leu Leu Ser Thr Tyr
65
Lys Asn Asp Ser Ala Leu Met Arg Phe Asn Arg Ser Ser Gln His Leu
      85              90              95
Ala Val Ala Gly Glu Arg Ser Asn Gly Arg Tyr Arg His Gly Ser His
      100              105              110
Ala Arg Gly Lys Gln Asn Gln Arg Arg Asn Gly Cys Asp Gly Gly Ala
      115              120              125
Arg Trp
130

```

<210> 6502

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 6502

```

Asn Leu Trp Gly Phe Gly Pro Asn Lys Gln Pro Val Thr Thr Pro Asp
1      5      10      15
Gln Ala Ala Ile Asp Asp Ala Arg Ala Arg Thr Gly Leu Gln His Leu
      20      25      30
Ala Val Ile Ser Gln Tyr Gly Gln Gln Tyr Leu Gln Lys Asp Ile Pro
      35      40      45
Asp Leu Phe Val Asp Leu Ser Thr Val Gly Glu Gly Tyr Ala Ala Asp
      50      55      60
His Leu Ala Ala Leu Met Ala Gln Glu Gly Ile Pro Arg Tyr Leu Val
65      70      75      80
Ser Val Gly Gly Ala Leu Val Ser Arg Gly Met Asn Ala Ser Gly Arg
      85      90      95
Pro Trp Arg Val Ala Ile Gln Lys Pro Thr Asp Gln Gln Asn Ala Val
      100      105      110
Gln Ala Ile Val Asp Ile Asn Gly His Gly Ile Ser Thr Ser Gly Ser
      115      120      125
Tyr Arg Asn Tyr Tyr Glu Leu Asp Gly Lys Arg Ile Ser His Val Ile
      130      135      140
Asp Pro Gln Thr Gly Arg Pro Ile Thr His Asn Leu Val Ser Val Thr
145      150      155      160
Val Ile Ala Pro Thr Ala Leu Glu Ala Asp Ala Trp Asp Thr Gly Leu
      165      170      175
Met Val Leu Gly Thr Glu Lys Ala Lys Glu Val Val Arg Gln Glu Gly
      180      185      190
Leu Ala Val Tyr Met Ile Thr Lys Glu Ala Asp Gly Phe
      195      200      205

```

<210> 6503

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 6503

```

Gly Glu Gln Pro Gly Gly Ile Met Leu Asp Leu Phe Ala Asp Ala Glu
1      5      10      15
Pro Trp Gln Glu Ser Leu Ala Pro Gly Ala Thr Ile Leu Arg Arg Phe
      20      25      30
Ala Leu Ser Arg Ala Ala Ala Leu Phe Asp Gly Ile Lys Ala Val Thr
      35      40      45
Ala Arg Ser Pro Phe Arg His Met Val Thr Pro Gly Gly Tyr Thr Met
      50      55      60
Ser Val Ala Met Thr Asn Cys Gly Glu Leu Gly Trp Ala Thr Asn Glu
65      70      75      80

```

Arg Gly Tyr Val Tyr Ala Ala Tyr Asp Pro Leu Thr Asp Gln Pro Trp
 85 90 95
 Pro Pro Met Pro Glu Ala Phe Gln Ala Leu Cys His Asp Ala Ala Val
 100 105 110
 Ala Ala Gly Tyr Pro Asp Phe Arg Pro Asp Ala Cys Leu Ile Asn Arg
 115 120 125
 Tyr Ala Val Gly Ala Lys Leu Ser Leu His Gln Asp Lys Asp Glu Pro
 130 135 140
 Asp Leu Arg Ala Pro Ile Val Ser Val Ser Leu Gly Leu Pro Ala Val
 145 150 155 160
 Phe Gln Phe Gly Leu Arg Arg Asn Asp Pro Leu Lys Arg Leu Met
 165 170 175
 Leu Glu His Gly Asp Val Val Val Trp Gly Gly Glu Ser Arg Leu Phe
 180 185 190
 Tyr His Gly Ile Gln Pro Leu Lys Pro Gly Asp His Pro Val Ala Gly
 195 200 205
 Ala Phe Arg Tyr Asn Leu Thr Phe Arg Gln Ala Ala Tyr Arg Glu
 210 215 220

<210> 6504

<211> 480

<212> PRT

<213> *Enterobacter cloacae*

<400> 6504

Leu Met Ser Val Leu Lys Lys Asn Ser Ala Arg Gln Arg Asp Gln Glu
 1 5 10 15
 Arg Ala Arg Leu Ile Trp Leu Leu Thr Thr Asp Lys Ala Val Thr Ser
 20 25 30
 Thr Leu Leu Gly Lys Leu Thr Leu Ala Glu Gln Tyr Asp Val Gly Thr
 35 40 45
 Leu Ala Asp Asp Ile Ala Glu Val Gly Ala Leu Val Ala His Leu Pro
 50 55 60
 Pro Pro Asp Leu Ala Asp Thr Leu Glu Ala Leu Pro Ser Glu Glu Arg
 65 70 75 80
 His Ala Leu Trp Arg Leu Val Gln Asp His Glu Arg Gly Gln Val Leu
 85 90 95
 Leu Glu Ala Ser Glu Asn Val Trp Asp Asp Leu Ile Asp Glu Met Ser
 100 105 110
 Asp Arg Asp Ile Leu Asp Ala Leu Gln Thr Leu Asp Ile Asp Glu Gln
 115 120 125
 Ile Tyr Leu Val Gln His Leu Pro Arg Asn Leu Thr Gly Arg Leu Leu
 130 135 140
 Ala Ser Leu Pro Ala Glu Glu Arg Ala Arg Val Arg Gln Val Met His
 145 150 155 160
 Tyr Glu Lys Asn Ser Val Gly Ala Ile Met Glu Phe Gly Val Ile Thr
 165 170 175
 Val Arg Pro Asp Val Thr Leu Gly Thr Val Gln Arg Tyr Leu Arg Arg
 180 185 190
 Leu Gly Ser Met Pro Asp Asn Thr Asp Lys Leu Phe Val Thr Ser Arg
 195 200 205
 Asp Lys Thr Leu Leu Gly Glu Leu Glu Leu Lys Thr Ile Leu Leu Asn
 210 215 220
 Ser Thr Gln Gln Arg Val Ser Glu Val Met Glu Thr Glu Pro Met Val
 225 230 235 240
 Phe Ser Pro Glu Asp Asp Ala Glu Lys Ala Ala Arg Thr Phe Glu Arg
 245 250 255
 Asp Asp Leu Val Ser Ala Ala Val Val Asp Ser Val Gly Lys Leu Met
 260 265 270
 Gly Arg Leu Thr Ile Asp Glu Ile Val Asp Val Val Tyr Glu Glu Thr
 275 280 285

Asp Asn Asp Leu Arg Ala Leu Gly Gly Ile Ser Ala Glu Asp Asp Val
 290 295 300
 His Ala Ser Val Gly Lys Ala Val Lys Thr Arg Trp Ala Trp Leu Ala
 305 310 315 320
 Ile Asn Leu Cys Thr Ala Phe Val Ala Ser Arg Val Ile Asp Gly Phe
 325 330 335
 Glu His Thr Ile Ser Gln Leu Val Ala Leu Ala Ser Leu Met Pro Ile
 340 345 350
 Val Ala Gly Ile Gly Gly Asn Thr Gly Asn Gln Thr Ile Thr Met Ile
 355 360 365
 Val Arg Ala Leu Ala Leu Glu Asn Ile Gln Pro Gly Asn Phe Ser Trp
 370 375 380
 Leu Ile Phe Arg Glu Met Gly Val Ala Leu Ile Asn Gly Leu Val Trp
 385 390 395 400
 Gly Gly Ile Met Gly Gly Ile Thr Trp Trp Leu Tyr Asp Asp Met Ala
 405 410 415
 Leu Gly Gly Val Met Met Leu Ala Met Val Leu Asn Leu Leu Val Ala
 420 425 430
 Ala Met Met Gly Val Ile Ile Pro Leu Thr Met Thr Arg Leu Gly Arg
 435 440 445
 Asp Pro Ala Val Gly Ser Ser Val Met Ile Thr Ala Ile Thr Asp Thr
 450 455 460
 Gly Gly Phe Phe Ile Phe Leu Gly Leu Ala Thr Ile Phe Leu Leu
 465 470 475 480

<210> 6505

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 6505

Ser Ala Ser Ala Ala Pro Tyr Pro Ala Arg Arg Thr Gly Ser Glu Ser
 1 5 10 15
 Cys Leu Pro Ser Pro Pro Arg Ala Glu Cys Thr Val Arg Arg Val Asp
 20 25 30
 Gly Pro Ser Gly Gln Ser Pro Ala Arg Arg Asn Leu Pro Pro Ser
 35 40 45
 Pro Trp Pro Asp Ala Arg Arg Ala Gly Lys Gly Arg Asn Arg Ala Pro
 50 55 60
 Arg Arg Arg
 65

<210> 6506

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 6506

Leu Pro Cys Ser Phe Leu Leu Ala Val Gly Leu Asn Ala Val Ser Leu
 1 5 10 15
 Ala Ala Lys Ala Asp Ala Pro Lys Glu Gln Glu Thr Asp Val Leu Leu
 20 25 30
 Ile Gly Gly Gly Ile Met Ser Ala Thr Leu Gly Thr Tyr Leu Gln Glu
 35 40 45
 Leu Glu Pro Asn Trp Ser Met Thr Met Val Glu Arg Leu Asp Gly Val
 50 55 60
 Ala Gln Glu Ser Ser Asn Gly Trp Asn Asn Ala Gly Thr Gly His Ser
 65 70 75 80
 Ala Leu Met Glu Leu Asn Tyr Thr Pro Gln Lys Lys Asp Gly Ser Ile
 85 90 95
 Ser Ile Glu Lys Ala Val Glu Ile Asn Glu Ala Phe Gln Ile Ser Arg

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<210> 6507
<211> 467
<212> PRT
<213> Enterobacter cloacae
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1	Ile	Leu	Phe	Lys	5	Gly	Tyr	Glu	Ile	Ile	Val	Ile	Val	Lys	Phe	Asn	Asp
										10						15	
	Gly	Leu	Phe	Val	20	Gly	Phe	Trp	Gln	Thr	Gly	Trp	His	Pro	Thr	Ile	Phe
										25					30		
	Leu	Ala	Met	Met	Leu	His		Phe	Val	Ile	Ala	Arg	Thr	Glu	Ala	Cys	Pro
										40					45		
	Tyr	Gln	Arg	Ile	Val	Met		Ser	Leu	Pro	His	Ser	Ser	Ser	Leu	Pro	Gln
										55					60		
	Gly	His	Val	Ala	Thr	Val	Leu	Arg	Ser	Pro	His	Arg		Leu	Met	Arg	Glu
65												75					80
	Thr	Leu	Ala	Gly	Val	Ile	Thr	Ala	Leu	Ala	Leu	Ile	Pro	Glu	Val	Ile	
										90					95		
	Ser	Phe	Ser	Val	Val	Ala	Gly	Val	Asp	Pro	Lys	Val	Ser	Leu	Ile	Ala	
										105					110		
	Ser	Val	Val	Leu	Cys	Phe	Ala	Leu	Ser	Leu	Leu	Gly	Gly	Arg	Pro	Ala	
										120				125			
	Met	Val	Thr	Ala	Ala	Ala	Gly	Ser	Val	Ala	Leu	Val	Ile	Gly	Pro	Met	
										135				140			
	Val	His	Gln	His	Gly	Val	Gln	Tyr	Ile	Leu	Pro	Ala	Val	Val	Met	Ala	
145												155					160
	Gly	Met	Ile	Gln	Ile	Leu	Phe	Gly	Ala	Leu	Gly	Met	Ala	Arg	Leu	Met	
																175	
	Arg	Phe	Ile	Pro	Gln	Ser	Val	Met	Thr	Gly	Phe	Val	Asn	Ala	Leu	Gly	
										185					190		
	Ile	Leu	Ile	Phe	Phe	Ala	Gln	Val	Pro	His	Phe	Trp	Ser	Arg	Ser	Pro	

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<210> 6508
<211> 202
<212> PRT
<213> Enterobacter cloacae
```

4400> 6508																
Ile	Met	Gly	Ile	Phe	Ser	Arg	Phe	Ala	Asp	Ile	Val	Asn	Ala	Asn	Ile	
1			5						10					15		
Asn	Ser	Leu	Leu	Glu	Lys	Ala	Glu	Asp	Pro	Gln	Lys	Leu	Val	Arg	Leu	
			20					25					30			
Met	Ile	Gln	Glu	Met	Glu	Asp	Thr	Leu	Val	Glu	Val	Arg	Ser	Thr	Ser	
			35				40					45				
Ala	Arg	Ala	Leu	Ala	Glu	Lys	Lys	Gln	Leu	Thr	Arg	Arg	Ile	Glu	Gln	
	50					55					60					
Ala	Thr	Ala	Gln	Leu	Asn	Glu	Trp	Gln	Glu	Lys	Ala	Glu	Leu	Ala	Leu	
65					70					75				80		
Arg	Lys	Asp	Lys	Glu	Asp	Leu	Ala	Arg	Ala	Ala	Leu	Ile	Glu	Lys	Gln	
				85					90					95		
Lys	Leu	Thr	Asp	Met	Val	Ala	Thr	Leu	Glu	His	Glu	Val	Thr	Leu	Val	
			100					105					110			
Asp	Asp	Thr	Leu	Thr	Arg	Met	Lys	Lys	Glu	Ile	Gly	Glu	Leu	Glu	Asn	
			115				120					125				
Lys	Leu	Ser	Glu	Thr	Arg	Ala	Arg	Gln	Gln	Gly	Ala	Gly	Ala	Ala	Pro	
			130			135					140					
Pro	Gly	Leu	Gln	Ala	Arg	Pro	Ala	Thr	Cys	Val	Ala	Asn	Trp	Thr	Ala	

145 150 155 160
 Ala Asn Trp Met Lys Gln Trp Arg Val Ser Asn Arg Leu Asn Val Val
 165 170 175
 Ser Thr Thr Trp Lys Arg Lys Pro Lys Ala Thr Ala Ser Val Ser Arg
 180 185 190
 Lys Pro Trp Ile Ser Ser Leu Leu Thr
 195 200

<210> 6509

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 6509

Ala Cys Arg Ile Val Arg Gln Gly Val His Met Ser Ala Leu Phe Leu
 1 5 10 15
 Ala Ile Pro Leu Thr Ile Phe Val Leu Phe Val Leu Pro Ile Trp Leu
 20 25 30
 Trp Leu His Tyr Ser Asn Arg Ser Ser Arg Gly Glu Leu Ser Gln Ser
 35 40 45
 Glu Gln Gln Arg Leu Ala Gln Leu Ser Ala Glu Ala Asn Lys Met Arg
 50 55 60
 Glu Arg Ile Gln Ala Leu Glu Ala Ile Leu Asp Ala Glu His Pro Asn
 65 70 75 80
 Trp Arg Glu Arg
 85

<210> 6510

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 6510

Leu Pro Leu Asn Glu Gly Ser Pro Met Ala Thr Lys Arg Arg Ala Glu
 1 5 10 15
 Thr Ala Gln Glu Asn Arg Glu Lys Met Ile Gln Ala Ala Arg Lys Ala
 20 25 30
 Phe Ala Glu Lys Gly Tyr Ala Ala Ala Ser Met Asp Glu Leu Thr Ala
 35 40 45
 Ser Val Gly Leu Thr Arg Gly Ala Leu Tyr His Asn Phe Asn Asp Lys
 50 55 60
 Lys Gly Leu Leu Ala Ala Val Val Ala Gln Ile Asp Ser Glu Met Ala
 65 70 75 80
 Ala Asn Ala Lys Ala Ile Ala Ala Ala Asp Asp Asp Trp Glu Arg
 85 90 95
 Leu Leu Ala Glu Gly Ile Ala Tyr Ile Lys Met Ala Leu Val Pro Glu
 100 105 110
 Val Gln Arg Ile Val Leu Leu Asp Gly Pro Ala Val Leu Gly Asp Pro
 115 120 125
 Ala Gln Trp Pro Ser Gln Asn Asn Cys Leu Glu Ser Thr Arg Gln Thr
 130 135 140
 Ile Glu Lys Met Met Glu Cys Asn Val Ile Lys Lys Met Asp Ala Arg
 145 150 155 160
 Val Ala Ala His Leu Leu Asn Gly Ala Ala Leu Asn Ala Ala Leu Leu
 165 170 175
 Ile Ala Ala Ser Asp Glu Pro Gln Lys Thr Leu Pro His Ala Ile Glu
 180 185 190
 Val Phe Thr Leu Leu Ala Ser Gly Leu Arg Asn Gly
 195 200 205

<210> 6511

<211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 6511
 Lys Gln Thr Gln Arg Asn Pro Cys Thr Ser Thr Gly Arg Trp Arg Cys
 1 5 10 15
 Pro Thr Arg Ala Ala Ser Ser Ser Arg Asp Val Arg Arg Gln Leu Asp
 20 25 30
 Ser Gly Lys Leu Asp Glu Ala Met Ala Arg Phe Glu Ser Phe Glu Arg
 35 40 45
 Arg Ile Asp His Met Glu Ala Glu Ala Glu Ser His Ser Ile Gly Lys
 50 55 60
 Gln Lys Thr Leu Asp Gln Gln Phe Ala Asp Leu Lys Ala Asp Asp Glu
 65 70 75 80
 Ile Ser Glu Gln Leu Ala Ala Leu Lys Ala Lys Met Lys Gln Asp Asn
 85 90 95
 Gln

<210> 6512
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 6512
 Asn Ala Arg Thr Tyr Ser Gly Ala Gly Ser His Pro Gly Arg Gly Thr
 1 5 10 15
 Pro Lys Leu Glu Gly Thr Val Met Ala Gly Leu Asn Leu Asn Lys Lys
 20 25 30
 Leu Trp Arg Ile Pro Gln Gln Gly Met Val Arg Gly Val Cys Ala Gly
 35 40 45
 Leu Ala His Tyr Leu Asp Val Pro Val Lys Leu Val Arg Val Val Thr
 50 55 60
 Val Leu Ser Ile Phe Phe Gly Leu Ala Phe Ile Thr Leu Val Ala Tyr
 65 70 75 80
 Ile Ile Leu Ser Phe Val Leu Asp Pro Met Pro Glu Gly Glu Leu Asn
 85 90 95
 Ala Glu Asn Thr Pro Thr Ser Arg Asp Leu Leu Asn Ala Val Asp Glu
 100 105 110
 Gln Leu Ser Ala Gly Glu Lys Arg Leu Arg Glu Met Glu Arg Tyr Val
 115 120 125
 Thr Ser Asp Thr Phe Thr Leu Arg Ser Arg Phe Arg Gln Leu
 130 135 140

<210> 6513
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 6513
 Glu Arg Thr Tyr Met Lys Gln Asn Trp Gln Gln Ala Gly Gln Lys Val
 1 5 10 15
 Lys Pro Gly Leu Lys Ile Ala Gly Lys Leu Val Leu Met Thr Ala Leu
 20 25 30
 Arg Tyr Gly Pro Ala Gly Val Ala Gly Trp Ala Ile Lys Ser Val Ala
 35 40 45
 Arg Lys Pro Val Arg Met Met Leu Ala Val Ala Leu Glu Pro Leu Leu
 50 55 60
 Gln Lys Leu Ala Lys Arg Val Ser Arg Arg Tyr Leu Ser Arg
 65 70 75

<210> 6514
 <211> 332
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6514

```

Gly Val Val Asn Phe Ile Met Ala Glu Tyr Lys Asp Asn Leu Leu Gly
1          5          10          15
Glu Ala Asn Ser Phe Leu Glu Val Leu Glu Gln Val Ser Arg Leu Ala
          20          25          30
Pro Leu Asn Lys Pro Val Leu Ile Ile Gly Glu Arg Gly Thr Gly Lys
          35          40          45
Glu Leu Ile Ala Asn Arg Leu His Phe Leu Ser Gly Arg Trp Asp Gly
          50          55          60
Pro Phe Ile Ser Leu Asn Cys Ala Ala Leu Asn Glu Asn Leu Leu Asp
65          70          75          80
Thr Glu Leu Phe Gly His Glu Ala Gly Ala Phe Thr Gly Ala Gln Lys
          85          90          95
Arg His Pro Gly Arg Phe Glu Arg Ala Asp Gly Gly Thr Leu Phe Leu
          100          105          110
Asp Glu Leu Ala Thr Ala Pro Met Leu Val Gln Glu Lys Leu Leu Arg
          115          120          125
Val Ile Glu Tyr Gly Glu Leu Glu Arg Val Gly Gly Ser Gln Pro Leu
          130          135          140
Gln Val Asn Val Arg Leu Val Cys Ala Thr Asn Ala Asp Leu Pro Ala
145          150          155          160
Met Val Ala Glu Asp Lys Phe Arg Ala Asp Leu Leu Asp Arg Leu Ala
          165          170          175
Phe Asp Val Val Gln Leu Pro Pro Leu Arg Glu Arg Arg Ser Asp Ile
          180          185          190
Met Leu Leu Ala Asp Gln Phe Ala Ile Gln Met Cys Arg Glu Leu Gly
          195          200          205
Leu Pro Leu Phe Pro Gly Phe Ser Glu Arg Ala Thr Gly Thr Leu Leu
          210          215          220
Gly Tyr His Trp Pro Gly Asn Ile Arg Glu Leu Lys Asn Val Val Glu
225          230          235          240
Arg Ser Val Tyr Arg His Gly Ser Ser Glu Thr Glu Leu Asp Asn Ile
          245          250          255
Ile Leu Asp Pro Phe Arg Arg Glu Asp Lys Gln Pro Pro Ala Pro Ala
          260          265          270
Thr Arg Gln Gln Asp Pro Ala Leu Pro Leu Asp Leu Arg Gln Phe Gln
          275          280          285
His Gln Gln Glu Lys Asn Leu Leu Glu Gln Ser Leu Lys Glu Ala Lys
          290          295          300
Tyr Asn Gln Lys Arg Ala Ala Glu Leu Leu Gly Leu Thr Tyr His Gln
305          310          315          320
Leu Arg Ala Leu Leu Lys Lys His Gln Met Arg
          325          330

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<210> 6515
 <211> 330
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6515

```

Glu Arg Thr Arg Gly Glu Glu Thr Met Ile Ile Phe Thr Leu Arg Arg
1          5          10          15
Leu Leu Leu Leu Leu Val Thr Leu Phe Phe Leu Thr Phe Val Gly Phe
          20          25          30
Ser Leu Ser Tyr Phe Thr Pro His Ala Pro Leu Gln Gly Ser Ser Leu

```

35	40	45
Trp Asp Ala Trp Leu Phe Trp Phe Asn Gly Leu Leu His Trp Asp Phe		
50	55	60
Gly Val Ser Ser Ile Asn Gly Gln Leu Ile Ser Glu Gln Leu Lys Val		
65	70	75
Val Phe Pro Ala Thr Met Glu Leu Cys Val Leu Ala Phe Gly Phe Ala		
85	90	95
Leu Met Val Gly Ile Pro Val Gly Met Leu Ala Gly Ile Tyr Arg Asn		
100	105	110
Lys Trp Gln Asp Lys Phe Ile Ser Ala Leu Ala Leu Ile Gly Phe Ser		
115	120	125
Ile Pro Val Phe Trp Leu Ala Leu Leu Leu Thr Leu Phe Phe Ser Leu		
130	135	140
Thr Leu Gly Trp Leu Pro Val Ser Gly Arg Phe Asp Leu Leu Tyr Asn		
145	150	155
Val Gln Thr Val Ser Gly Phe Ala Ile Val Asp Ala Trp Leu Ser Asp		
165	170	175
Ser Val Trp Arg Asp Glu Met Ile Val Ser Ala Leu Arg His Met Val		
180	185	190
Leu Pro Val Leu Thr Leu Ala Val Ala Pro Thr Thr Glu Val Ile Arg		
195	200	205
Leu Met Arg Ile Ser Thr Ile Asp Val Phe Asp Gln Asn Tyr Val Lys		
210	215	220
Ala Ala Ala Thr Arg Gly Leu Ser Arg Leu Thr Ile Leu Arg Arg His		
225	230	235
Val Leu His Asn Ala Leu Pro Pro Val Ile Pro Arg Leu Gly Leu Gln		
245	250	255
Phe Ser Thr Met Leu Thr Leu Ala Met Ile Thr Glu Met Val Phe Ser		
260	265	270
Trp Pro Gly Leu Gly Arg Trp Met Ile Asn Ala Ile Arg Gln Gln Asp		
275	280	285
Tyr Ala Ala Ile Ser Ala Gly Val Met Val Ile Gly Ser Leu Val Ile		
290	295	300
Ile Val Asn Val Val Ser Asp Ile Leu Gly Ala Met Ala Asn Pro Leu		
305	310	315
Lys His Lys Glu Trp Tyr Ala Leu Arg		
325	330	

<210> 6516

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 6516

Pro Ala Gly Arg Arg Asp Pro Pro Arg Asn Gln Cys Gly Gly Ala Ile		
1	5	10
Met Pro Leu Leu Asp Ile Arg Asn Leu Thr Ile Glu Ile Lys Thr Gly		
20	25	30
Glu Gly Trp Val Lys Ala Val Asp Arg Ile Ser Ile Thr Leu Ala Glu		
35	40	45
Gly Glu Ile Arg Gly Leu Val Gly Glu Ser Gly Ser Gly Lys Ser Leu		
50	55	60
Ile Ala Lys Ala Ile Cys Gly Val Ala Lys Asp Asn Trp Arg Val Thr		
65	70	75
Ala Asp Arg Met Arg Phe Asp Asp Ile Asp Leu Leu Arg Leu Ser Pro		
85	90	95
Arg Glu Arg Arg Lys Leu Val Gly His Asn Val Ser Met Ile Phe Gln		
100	105	110
Glu Pro Gln Ser Cys Leu Asp Pro Ser Glu Arg Val Gly Lys Gln Leu		
115	120	125
Met Gln Asn Ile Pro Gly Trp Thr Tyr Lys Gly Arg Trp Trp Gln Arg		

130		135		140	
Phe Gly Trp Arg Lys Arg Arg Ala Ile Glu Leu Leu His Arg Val Gly					
145		150		155	160
Ile Lys Asp His Lys Asp Ala Met Arg Ser Phe Pro Tyr Glu Leu Thr					
	165		170		175
Asp Gly Glu Cys Gln Lys Val Met Ile Ala Ile Ala Leu Ala Asn Gln					
	180		185		190
Pro Arg Leu Leu Ile Ala Asp Glu Pro Thr Asn Ala Met Glu Pro Thr					
	195		200		205
Thr Gln Ala Gln Ile Phe Arg Leu Leu Thr Arg Leu Asn Gln Asn Asn					
	210		215		220
Asn Thr Thr Ile Leu Leu Ile Ser His Asp Leu Gln Met Leu Ser Lys					
	225		230		235
Trp Ala Asp Lys Ile Asp Val Met Tyr Cys Gly Gln Thr Val Glu Thr					
	245		250		255
Ala Pro Ser Glu Asp Leu Val Thr Thr Pro His His Pro Tyr Thr Gln					
	260		265		270
Ala Leu Ile Arg Ala Ile Pro Asp Phe Gly Ser Ala Met Pro His Lys					
	275		280		285
Ser Arg Leu Asn Thr Leu Pro Gly Ala Ile Pro Leu Leu Glu Ser Leu					
	290		295		300
Pro Ile Gly Cys Arg Leu Gly Pro Arg Cys Pro Tyr Ala Gln Arg Lys					
	305		310		315
Cys Ile Glu Thr Pro Arg Leu Thr Gly Pro Lys Asn His Leu Phe Ala					
	325		330		335
Cys His Phe Pro Leu Asn Met Glu Arg Glu					
	340		345		

<210> 6517

<211> 587

<212> PRT

<213> Enterobacter cloacae

<400> 6517

Gly His Cys Ser Lys Asn Ile Lys Cys Ala Asp Ile Ile Ser Thr Tyr	
1	5
Pro Gln Thr Phe Leu Arg Ser Arg Arg Lys Cys Asp Thr Leu Cys Arg	
	20
Ser Asn Leu Lys Thr Leu Lys Thr Met Arg Leu Val Leu Ser Ser Leu	
	35
Phe Ala Leu Gly Leu Phe Ser Asn Leu Ala Phe Ala Ala Pro Asp Arg	
	50
Ala Val Pro Pro Asp Ile Arg Glu Ser Gly Phe Val Tyr Cys Val Ser	
	65
Gly Gln Val Asp Thr Phe Asn Pro Gln Lys Ala Gly Ser Gly Leu Ile	
	85
Val Asp Thr Leu Ala Ala Gln Leu Tyr Asp Arg Leu Leu Asp Val Asp	
	100
Pro Tyr Thr Tyr Arg Leu Val Pro Glu Leu Ala Glu Ser Trp Glu Val	
	115
Leu Asp Asn Gly Ala Thr Tyr Arg Phe Arg Leu Arg Asp Asp Val Ala	
	130
Phe Gln His Thr Pro Trp Phe Thr Pro Thr Arg Lys Leu Asn Ala Asp	
	145
Asp Val Val Phe Thr Phe Gln Arg Ile Phe Asn Arg Asn His Pro Trp	
	165
His Asn Val Asn Gly Gly Asn Phe Pro Tyr Phe Asp Ser Leu Gln Phe	
	180
Ala Asp Ser Val Lys Ser Val Arg Lys Leu Asp Asn Arg Thr Val Glu	
	195
Phe Arg Leu Thr Arg Pro Asp Ala Ser Phe Leu Trp His Leu Ala Thr	
	200
	205

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      210      215      220
His Tyr Ala Ser Val Met Ser Ala Glu Tyr Ala Asp Gln Leu Thr Lys
225      230      235      240
Lys Asp Arg Gln Glu Arg Leu Asp Arg Glu Pro Val Gly Thr Gly Pro
      245      250      255
Phe Gln Leu Ala Glu Tyr Arg Ala Gly Gln Tyr Ile Arg Leu Gln Arg
      260      265      270
His Asp Arg Phe Trp Arg Gly Lys Pro Leu Met Pro Gln Val Ile Val
      275      280      285
Asp Leu Gly Ser Gly Gly Thr Gly Arg Leu Ser Lys Leu Leu Thr Gly
290      295      300
Glu Cys Asp Val Leu Ala Trp Pro Ala Ala Ser Gln Leu Thr Ile Leu
305      310      315
Arg Asp Asp Pro Arg Leu Arg Leu Thr Leu Arg Pro Gly Met Asn Ile
      325      330      335
Ala Tyr Leu Ala Phe Asn Thr Asp Lys Pro Pro Leu Asn Asn Pro Ala
      340      345      350
Val Arg His Ala Leu Ala Leu Ala Ile Asn Asn Gln Arg Leu Met Gln
      355      360      365
Ser Ile Tyr Tyr Gly Thr Ala Glu Thr Ala Ala Ser Ile Leu Pro Arg
370      375      380
Ala Ser Trp Ala Tyr Asp Gly Glu Ala Lys Ile Thr Glu Tyr Asn Pro
385      390      395
Ala Lys Ala Arg Glu Gln Leu Lys Ala Leu Gly Ala Glu Asn Leu Thr
      405      410      415
Leu Gln Leu Trp Val Pro Thr Ser Ser Gln Ala Trp Asn Pro Ser Pro
      420      425      430
Leu Lys Thr Ala Glu Leu Leu Gln Ala Asp Met Ala Gln Val Gly Val
      435      440      445
Lys Val Ile Ile Val Pro Val Glu Gly Arg Phe Gln Glu Ala Arg Leu
450      455      460
Met Asp Met Asn His Asp Leu Thr Leu Ala Gly Trp Ser Thr Asp Ser
465      470      475
Asn Asp Pro Asp Ser Phe Phe Arg Pro Leu Leu Ser Cys Ala Ala Ile
      485      490      495
Asn Ser Gln Thr Asn Tyr Ala His Trp Cys Asn Arg Glu Phe Asp Ala
      500      505      510
Val Leu Gln Lys Ala Leu Ala Ser Gln Gln Leu Ala Ser Arg Ile Glu
      515      520      525
Ala Tyr Asp Glu Ala Gln Asn Ile Leu Ala Arg Glu Leu Pro Val Leu
      530      535      540
Pro Leu Ala Ser Ser Leu Arg Leu Gln Ala Tyr Arg Tyr Asp Ile Lys
545      550      555
Gly Leu Val Leu Ser Pro Phe Gly Asn Ala Ser Phe Ala Gly Val Thr
      565      570      575
Arg Glu Lys Glu Gln Glu Val Lys Lys Pro
      580      585

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<210> 6518

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 6518

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Ser Ile Arg Asn Gly Met Pro Tyr Asp Asn Val Tyr Ser Glu Lys Arg
1      5      10      15
Thr Pro Gly Ala Leu Arg Thr Val Trp Arg Asn Phe Tyr Gly Asp Thr
      20      25      30
Thr Ala Met Ile Gly Phe Tyr Gly Cys Ile Gly Leu Val Leu Leu Cys
      35      40      45
Val Leu Gly Ser Trp Phe Ala Pro Tyr Gly Ile Asp Gln Gln Phe Leu

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      50      55      60
Gly Tyr Gln Leu Leu Pro Ser Trp Ser Arg Tyr Gly Glu Val Ser
65      70      75      80
Phe Phe Leu Gly Thr Asp Asp Leu Gly Arg Asp Val Leu Ser Arg Leu
      85      90      95
Leu Ser Gly Ala Ala Pro Thr Val Gly Gly Ala Phe Val Val Thr Leu
      100      105      110
Ala Ala Ala Ile Cys Gly Leu Ala Leu Gly Ile Phe Ala Gly Ser Thr
      115      120      125
His Gly Leu Arg Ser Ala Val Leu Asn His Ile Leu Asp Thr Leu Leu
      130      135      140
Ser Ile Pro Ser Leu Leu Leu Ala Ile Ile Val Val Ala Phe Ala Gly
145      150      155      160
Pro His Leu Thr His Ala Met Phe Ala Val Trp Leu Ala Ile Leu Pro
      165      170      175
Arg Met Val Arg Ser Val Tyr Ser Leu Val His Asp Glu Leu Glu Lys
      180      185      190
Glu Tyr Val Val Ala Ala Arg Leu Asp Gly Ala Thr Thr Phe Asn Ile
      195      200      205
Leu Trp Phe Ala Val Leu Pro Asn Ile Ala Ala Gly Leu Val Thr Glu
      210      215      220
Ile Thr Arg Ala Leu Ser Met Ala Ile Leu Asp Ile Ala Ala Leu Gly
225      230      235      240
Phe Leu Asp Leu Gly Ala Gln Leu Pro Ser Pro Glu Trp Gly Ala Met
      245      250      255
Leu Gly Asp Ala Leu Glu Leu Ile Tyr Val Ala Pro Trp Thr Val Met
      260      265      270
Leu Pro Gly Ala Ala Ile Met Val Ser Val Leu Leu Val Asn Leu Leu
      275      280      285
Gly Asp Gly Ile Arg Arg Ala Ile Asn Ala Gly Val Gln
      290      295      300

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<210> 6519

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 6519

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Thr Trp Arg Glu Ser Glu Met Val Glu Thr Leu Leu Glu Val Arg Asn
1      5      10      15
Leu Ser Lys Thr Phe Arg Tyr Arg Thr Gly Leu Phe His Arg Gln Thr
      20      25      30
Val Glu Ala Val Lys Pro Leu Ser Phe Thr Leu Arg Glu Lys Gln Thr
      35      40      45
Leu Ala Ile Ile Gly Glu Asn Gly Ser Gly Lys Ser Thr Leu Ala Lys
      50      55      60
Met Leu Ala Gly Met Val Glu Pro Ser Gly Gly Glu Ile Leu Ile Asp
65      70      75      80
Asp His Pro Leu Glu Phe Gly Asp Tyr Ser Phe Arg Ser Gln Arg Ile
      85      90      95
Arg Met Ile Phe Gln Asp Pro Ser Thr Ser Leu Asn Pro Arg Gln Arg
      100      105      110
Ile Ser Gln Ile Leu Asp Phe Pro Leu Arg Leu Asn Thr Asp Leu Glu
      115      120      125
Pro Glu Ala Arg Arg Lys Arg Ile Val Glu Thr Leu Arg Leu Val Gly
      130      135      140
Leu Leu Pro Asp His Val Ser Tyr Tyr Pro His Met Leu Ala Pro Gly
145      150      155      160
Gln Lys Gln Arg Leu Gly Leu Ala Arg Ala Leu Ile Leu Arg Pro Lys
      165      170      175
Val Ile Ile Ala Asp Glu Ala Leu Ala Ser Leu Asp Met Ser Met Arg

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180 185 190
 Ser Gln Leu Ile Asn Leu Met Leu Glu Leu Gln Glu Lys Gln Gly Ile
 195 200 205
 Ser Tyr Ile Tyr Val Thr Gln His Leu Gly Met Met Lys His Ile Ser
 210 215 220
 Asp Gln Val Leu Val Met His Gln Gly Glu Val Val Glu Arg Gly Ser
 225 230 235 240
 Thr Ala Asp Val Leu Ala Ser Pro Leu His Asp Leu Thr Lys Arg Leu
 245 250 255
 Ile Ala Gly His Phe Gly Glu Ala Leu Thr Ala Asp Ala Trp Arg Lys
 260 265 270
 Asp Arg
 275

<210> 6520

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6520

Ala Arg Leu Ser Ser Pro Phe Asn Pro Ala Arg Leu Asn Pro Val Ser
 1 5 10 15
 Gly Lys Val Ser Pro His Asn Gly Ile Asp Tyr Ser Met Pro Met Asn
 20 25 30
 Thr Lys Ile Val Ser Val Ile Asp Gly Lys Ile Thr Arg Ala Glu Tyr
 35 40 45
 Asn Ser Thr Met Gly Tyr Phe Val Glu Val Thr Gly Lys Ala Gly Val
 50 55 60
 Lys Thr Arg Tyr Leu His Leu Asn Lys Ile Leu Val Thr Lys Gly Ala
 65 70 75 80
 Arg Val Thr Arg Gly Gly Ala Ile Ala Leu Ser Gly Asn Ser Gly Arg
 85 90 95
 Ser Ser Gly Pro His Leu His Tyr Glu Leu Val Ile Asn Asn Asn Pro
 100 105 110
 Val Asn Ser Leu Ala Phe Arg Ala Ala Pro Ala Asp Asn Lys Leu
 115 120 125
 Glu Gln His Ala Phe Ala His Ala Arg Asp Tyr Glu Arg Tyr Leu Asp
 130 135 140

145

<210> 6521

<211> 447

<212> PRT

<213> Enterobacter cloacae

<400> 6521

Pro Ser Gly Ala Tyr Ala Arg Cys Phe Asp Phe Leu Ala Glu Asn Cys
 1 5 10 15
 Met Ala Ser Leu Lys Ile Lys Tyr Ala Ala Ile Ile Ile Ser Ser Leu
 20 25 30
 Ile Ala Gly Gly Leu Ile Ser Val Thr Ala Trp Gln Tyr Val Asn Ser
 35 40 45
 Ala Gln Lys Thr Glu Lys Thr Glu Gln Lys Ala Pro Glu Arg Lys Val
 50 55 60
 Leu Phe Trp Tyr Asp Pro Met Lys Pro Asp Thr Lys Phe Asp Lys Pro
 65 70 75 80
 Gly Lys Ser Pro Phe Met Asp Met Asp Leu Val Pro Lys Tyr Ala Asp
 85 90 95
 Asp Ser Gly Asp Lys Ser Ser Gly Glu Ile Arg Ile Asp Pro Thr Gln
 100 105 110

Val Gln Asn Leu Gly Leu Lys Thr Gln Lys Val Thr Arg Gly Met Leu
 115 120 125
 Asn Tyr Ser Gln Thr Ile Pro Ala Asn Val Ser Tyr Asn Glu Tyr Gln
 130 135 140
 Phe Val Ile Val Gln Ala Arg Ser Asp Gly Phe Val Glu Lys Val Tyr
 145 150 155 160
 Pro Met Thr Ile Gly Asp His Val Lys Lys Gly Thr Pro Leu Ile Asp
 165 170 175
 Ile Thr Ile Pro Asp Trp Val Glu Ala Gln Ser Glu Phe Leu Leu Leu
 180 185 190
 Ser Ser Thr Gly Gly Thr Ser Thr Gln Ile Lys Gly Val Leu Glu Arg
 195 200 205
 Leu Arg Leu Ala Gly Met Pro Glu Glu Asp Ile Gln Arg Leu Arg Ser
 210 215 220
 Thr Arg Ser Ile Gln Thr Arg Phe Thr Ile Lys Ala Pro Ile Asp Gly
 225 230 235 240
 Val Ile Thr Ala Phe Asp Leu Arg Thr Gly Met Asn Ile Ser Lys Asp
 245 250 255
 Lys Val Val Ala Gln Ile Gln Gly Met Asp Pro Val Trp Ile Ser Ala
 260 265 270
 Ala Val Pro Glu Ser Ile Ala Tyr Leu Leu Lys Asp Thr Ser Gln Phe
 275 280 285
 Glu Ile Ser Val Pro Ala Tyr Pro Asp Lys Thr Phe His Val Glu Lys
 290 295 300
 Trp Asn Ile Leu Pro Ser Val Asp Gln Thr Thr Arg Thr Leu Gln Val
 305 310 315 320
 Arg Leu Gln Val Ser Asn Lys Asp Glu Phe Leu Lys Pro Gly Met Asn
 325 330 335
 Ala Tyr Leu Lys Leu Asn Thr Arg Ser Gln Glu Met Leu Leu Ile Pro
 340 345 350
 Ser Gln Ala Val Ile Asp Thr Gly Lys Glu Gln Arg Val Ile Thr Val
 355 360 365
 Asp Asp Glu Gly Lys Phe Val Pro Lys Gln Ile His Val Leu His Glu
 370 375 380
 Ser Gln Gln Gln Ser Gly Ile Gly Ser Gly Leu Asn Glu Gly Asp Thr
 385 390 395 400
 Val Val Val Ser Gly Leu Phe Leu Ile Asp Ser Glu Ala Asn Ile Thr
 405 410 415
 Gly Ala Leu Glu Arg Met Arg His Pro Glu Lys Thr Glu Ser Ser Met
 420 425 430
 Pro Ala Met Ser Asp Gln Pro Val Asn Met His Ser Gly His
 435 440 445

<210> 6522

<211> 832

<212> PR1

<213> Enterobacter cloacae

<400> 6522

His Thr Leu Lys Thr Glu Asp Ala Ser Val Cys Ile Arg Arg Val Thr
 1 5 10 15
 Val Lys Asn Asp Asn Ala Val Gln His Asn Asn Gln Thr Ala Ser Glu
 20 25 30
 Gln Thr Leu Ser Pro Asp Glu Gly His Val Leu His Lys Val Arg Asp
 35 40 45
 Pro Val Cys Gly Met Ala Ile Leu Pro Asp Arg Ala His Ser Ser Ile
 50 55 60
 Arg Tyr Gln Asp His Gln Leu Tyr Phe Cys Ser Ala Ser Cys Glu Ser
 65 70 75 80
 Lys Phe Lys Ala His Pro Asp Arg Asn Leu Thr Glu Asp Ala Ser Glu
 85 90 95

His	Ser	His	His	His	His	His	Asp	His	His	Glu	Val	Ser	Pro	Asp	Gln
Ile	Lys	Gln	Pro	His	His	Gln	Ala	105	Glu	Lys	Glu	Asn	Ser	110	Gly
Trp	Thr	Cys	Pro	Met	His	Pro	120	Glu	Ile	Arg	Arg	Ser	125	Gly	Pro
Cys	Pro	Val	Cys	Gly	Met	150	Ala	Leu	Glu	Pro	Leu	Val	Ala	Thr	Ala
Thr	Gly	Pro	Ser	Asp	Glu	Leu	His	Asp	Met	170	Thr	Arg	Arg	Phe	Trp
Gly	Leu	Leu	Leu	Ala	Phe	Pro	Val	Leu	Val	Leu	Glu	Met	Gly	Ser	His
Leu	Phe	Pro	Glu	Leu	Arg	Asn	Thr	Val	Pro	Pro	Gln	Tyr	Asn	Thr	Trp
Leu	Gln	Leu	Leu	Leu	Ala	Ser	Pro	Val	Val	Leu	Trp	Cys	Gly	Trp	Pro
Phe	Phe	Ala	Arg	Ala	Gly	Met	Ser	Leu	Arg	Asn	Arg	Ser	Leu	Asn	Met
Phe	Thr	Leu	Val	Ala	Met	Gly	Thr	Gly	Val	Ala	Trp	Val	Tyr	Ser	Val
Ile	Ala	Thr	Val	Phe	Pro	Ser	Trp	Phe	Pro	Ala	Ser	Phe	Arg	Asn	Met
Asp	Gly	Leu	Val	Ala	Val	Tyr	Phe	Glu	Ala	Ala	Ala	Val	Ile	Thr	Val
Leu	Val	Leu	Leu	Gly	Gln	Val	Leu	Glu	Leu	Arg	Ala	Arg	Glu	Gln	Thr
Ser	Gly	Ala	Ile	Thr	Ala	Leu	Leu	Asn	Leu	Ala	Pro	Lys	Thr	Ala	Arg
Arg	Leu	Asp	His	Asp	Gly	His	Glu	Thr	Asp	Ile	Asn	Ala	Glu	Asp	Val
Leu	Pro	Gly	Asp	Lys	Leu	Arg	Ile	Arg	Pro	Gly	Glu	Ser	Ile	Pro	Val
Asp	Gly	Ile	Val	Ile	Glu	Gly	Lys	Thr	Thr	Val	Asp	Glu	Ser	Met	Val
Thr	Gly	Glu	Ser	Met	Pro	Val	Thr	Lys	Thr	Glu	Gly	Asp	Pro	Val	Ile
Gly	Gly	Thr	Ile	Asn	Gln	Thr	Gly	Ser	Leu	Ile	Ile	Arg	Ala	Glu	Lys
Val	Gly	Asp	Glu	Thr	Met	Leu	Ser	Arg	Ile	Val	Gln	Met	Val	Ala	Asp
Ala	Gln	Arg	Ser	Arg	Ala	Pro	Ile	Gln	Arg	Met	Ala	Asp	Ser	Val	Ser
Gly	Trp	Phe	Val	Pro	Leu	Val	Ile	Leu	Ile	Ala	Val	Val	Ala	Phe	Val
Ile	Trp	Ser	Val	Trp	Gly	Pro	Glu	Pro	Arg	Met	Ala	His	Gly	Leu	Ile
Ala	Ala	Val	Ser	Val	Leu	Ile	Ile	Ala	Cys	Pro	Cys	Ala	Leu	Gly	Leu
Ala	Thr	Pro	Met	Ser	Ile	Met	Val	Gly	Val	Gly	Lys	Gly	Ala	Gln	Ala
Gly	Val	Leu	Ile	Arg	Asn	Ala	Glu	Ala	Leu	Glu	Arg	Leu	Glu	Lys	Val
Asp	Thr	Leu	Val	Val	Asp	Lys	Thr	Gly	Thr	Leu	Thr	Glu	Gly	Ser	Pro
Thr	Val	Thr	Gly	Ile	Ile	Ser	Leu	Asn	Pro	Gly	Gly	Glu	Thr	Ser	Leu
Leu	Arg	Val	Thr	Ala	Ala	Val	Glu	Lys	Gly	Ser	Gln	His	Pro	Leu	Gly
Met	Ala	Val	Val	Lys	Ala	Ala	Gln	Glu	Lys	Gly	Ile	Ala	Ile	Pro	Ala
Val	Thr	His	Phe	Asp	Ala	Pro	Ser	Gly	Lys	Gly	Val	Ser	Gly	Asp	Val

580 585 590
 Glu Gly Gln Arg Val Val Ile Gly Asn Glu Leu Ala Met Gln Glu Asn
 595 600 605
 Ser Ile Val Ile Asp Asn Gln Lys Ala Val Ala Asp Thr Leu Arg Met
 610 615 620
 Glu Gly Ala Thr Val Ile Tyr Val Ala Thr Asp Gly Asp Leu Ala Gly
 625 630 635 640
 Leu Ile Ala Ile Ser Asp Pro Val Lys Thr Thr Thr Pro Asp Ala Leu
 645 650 655
 Lys Ala Leu Arg Gln Ala Gly Ile Arg Ile Val Met Leu Thr Gly Asp
 660 665 670
 Asn Gln Leu Thr Ala Glu Ala Val Ala Arg Lys Leu Gly Ile Asp Glu
 675 680 685
 Val Glu Ala Gly Ile Leu Pro Asp Gly Lys Lys Ala Val Ile Thr Arg
 690 695 700
 Leu Lys Glu Ser Gly His Val Val Ala Met Ala Gly Asp Gly Val Asn
 705 710 715 720
 Asp Ala Pro Ala Leu Ala Ala Ala Asp Val Gly Ile Ala Met Gly Thr
 725 730 735
 Gly Thr Asp Val Ala Ile Glu Ser Ala Gly Val Thr Leu Leu Lys Gly
 740 745 750
 Asp Leu Met Ile Leu Asn Arg Ala Arg His Leu Ser Glu Ile Thr Met
 755 760 765
 Lys Asn Ile Arg Gln Asn Leu Phe Phe Ala Phe Ile Tyr Asn Ala Leu
 770 775 780
 Gly Val Pro Val Ala Ala Gly Leu Leu Tyr Pro Val Tyr Gly Ile Leu
 785 790 795 800
 Leu Ser Pro Val Ile Ala Ala Ala Ala Met Ala Leu Ser Ser Val Ser
 805 810 815
 Val Ile Val Asn Ala Leu Arg Leu Lys Ser Val Arg Leu Gly Lys
 820 825 830

<210> 6523

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 6523

Gly Ser Val Phe Gly Ser Gly Pro Phe His Pro Val Val Lys Arg Arg
 1 5 10 15
 Gly Ser Gln Leu Lys Ala Ala Asp Ala Asn Ile Gly Ala Pro Arg Ala
 20 25 30
 Ala Phe Phe Pro Ser Ile Thr Leu Thr Ser Gly Leu Ser Ala Ser Ser
 35 40 45
 Thr Glu Leu Ser Ser Leu Phe Thr Ser Gly Ser Gly Met Trp Asn Phe
 50 55 60
 Ile Pro Lys Ile Glu Ile Pro Ile Phe Asn Ala Gly Arg Asn Lys Ala
 65 70 75 80
 Asn Leu Lys Leu Ala Glu Ile Arg Gln Gln Gln Ser Val Val Asn Tyr
 85 90 95
 Glu Gln Lys Ile Gln Ser Ala Phe Lys Asp Val Ser Asp Thr Leu Ala
 100 105 110
 Leu Arg Asp Ser Leu Ser Gln Gln Leu Glu Ser Gln Gln Arg Tyr Leu
 115 120 125
 Asp Ser Leu Gln Ile Thr Leu Gln Arg Ala Arg Gly Met Tyr Ala Ser
 130 135 140
 Gly Ala Val Ser Tyr Ile Glu Val Leu Asp Ala Glu Arg Ser Leu Phe
 145 150 155 160
 Ala Thr Gln Gln Thr Ile Leu Asp Leu Tyr Ser Arg Gln Val Asn
 165 170 175
 Glu Ile Asn Leu Phe Thr Ala Leu Gly Gly Gly Trp Val Glu

180

185

190

<210> 6524

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 6524

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Ile Tyr Leu Ile Asn Gln Glu Ile Lys Met Arg Asn Ser Leu Lys Ala
1          5          10          15
Val Leu Phe Gly Ala Phe Ser Val Met Phe Ser Ala Gly Leu His Ala
20          25          30
Glu Thr His Gln His Gly Asp Met Asn Thr Ala Ser Asp Ala Ser Val
35          40          45
Gln Gln Val Ile Lys Gly Thr Gly Val Val Lys Asp Ile Asp Met Asn
50          55          60
Thr Lys Lys Ile Thr Ile Ser His Glu Ala Ile Pro Ala Val Gly Trp
65          70          75          80
Pro Ala Met Thr Met Arg Phe Thr Phe Val Asn Ala Asp Asp Ala Ile
85          90          95
Asn Ala Leu Lys Thr Gly Asn His Val Asp Phe Ser Phe Ile Gln Gln
100         105         110
Gly Asn Ile Ser Leu Leu Lys Ser Ile Asn Val Thr Gln Ser
115         120         125

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<210> 6525

<211> 1059

<212> PRT

<213> Enterobacter cloacae

<400> 6525

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Ile Cys Ile Gln Gly Thr Glu Glu Thr Thr Met Ile Glu Trp Ile Ile
1          5          10          15
Arg Arg Ser Val Ala Asn Arg Phe Leu Val Met Met Gly Ala Leu Phe
20          25          30
Leu Ser Ile Trp Gly Thr Trp Thr Thr Ile Ile Asn Thr Pro Val Asp Ala
35          40          45
Leu Pro Asp Leu Ser Asp Val Gln Val Ile Ile Lys Thr Ser Tyr Pro
50          55          60
Gly Gln Ala Pro Gln Ile Val Glu Asn Gln Val Thr Tyr Pro Leu Thr
65          70          75          80
Thr Thr Met Leu Ser Val Pro Gly Ala Lys Thr Val Arg Gly Phe Ser
85          90          95
Gln Phe Gly Asp Ser Tyr Val Tyr Val Ile Phe Glu Asp Gly Thr Asp
100         105         110
Leu Tyr Trp Ala Arg Ser Arg Val Leu Glu Tyr Leu Asn Gln Val Gln
115         120         125
Gly Lys Leu Pro Ala Gly Val Ser Ser Glu Ile Gly Pro Asp Ala Thr
130         135         140
Gly Val Gly Trp Ile Phe Glu Tyr Ala Leu Val Asp Arg Ser Gly Lys
145         150         155         160
His Asp Leu Ser Glu Leu Arg Ser Leu Gln Asp Trp Phe Leu Lys Phe
165         170         175
Glu Leu Lys Thr Ile Pro Asn Val Ala Glu Val Ala Ser Val Gly Gly
180         185         190
Val Val Lys Gln Tyr Gln Ile Gln Val Asn Pro Val Lys Leu Ser Gln
195         200         205
Tyr Gly Ile Ser Leu Pro Glu Val Lys Gln Ala Leu Glu Ser Ser Asn
210         215         220
Gln Glu Ala Gly Gly Ser Ser Val Glu Met Ala Glu Ala Glu Tyr Met
225         230         235         240

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Val Arg Ala Ser Gly Tyr Leu Gln Ser Ile Asp Asp Phe Asn Asn Ile
 245 250 255
 Val Leu Lys Thr Gly Glu Asn Gly Val Pro Val Tyr Leu Arg Asp Val
 260 265 270
 Ala Arg Val Gln Thr Gly Pro Glu Met Arg Arg Gly Ile Ala Glu Leu
 275 280 285
 Asn Gly Gln Gly Glu Val Ala Gly Gly Val Val Ile Leu Arg Ser Gly
 290 295 300
 Lys Asn Ala Arg Asp Val Ile Thr Ala Val Arg Asp Lys Leu Glu Thr
 305 310 315 320
 Leu Lys Ala Ser Leu Pro Glu Gly Val Glu Ile Val Thr Thr Tyr Asp
 325 330 335
 Arg Ser Gln Leu Ile Asp Arg Ala Ile Asp Asn Leu Ser Ser Lys Leu
 340 345 350
 Leu Glu Glu Phe Ile Val Val Ala Ile Val Cys Ala Leu Phe Leu Trp
 355 360 365
 His Val Arg Ser Ala Leu Val Ala Ile Ile Ser Leu Pro Leu Gly Leu
 370 375 380
 Cys Ile Ala Phe Ile Val Met His Phe Gln Gly Leu Asn Ala Asn Ile
 385 390 395 400
 Met Ser Leu Gly Gly Ile Ala Ile Ala Val Gly Ala Met Val Asp Ala
 405 410 415
 Ala Ile Val Met Ile Glu Asn Ala His Lys Arg Leu Glu Glu Trp Asp
 420 425 430
 His Gln His Pro Gly Glu Gln Ile Asp Asn Ala Thr Arg Trp Lys Val
 435 440 445
 Ile Thr Asp Ala Ser Val Glu Val Gly Pro Ala Leu Phe Ile Ser Leu
 450 455 460
 Leu Ile Ile Thr Leu Ser Phe Ile Pro Ile Phe Thr Leu Glu Gly Gln
 465 470 475 480
 Glu Gly Arg Leu Phe Gly Pro Leu Ala Phe Thr Lys Thr Tyr Ser Met
 485 490 495
 Ala Gly Ala Ala Leu Ala Ile Ile Val Ile Pro Ile Leu Met Gly
 500 505 510
 Phe Trp Ile Arg Gly Lys Ile Pro Ala Glu Thr Ser Asn Pro Leu Asn
 515 520 525
 Arg Val Leu Ile Lys Ala Tyr His Pro Leu Leu Leu Arg Val Leu His
 530 535 540
 Trp Pro Lys Thr Thr Leu Leu Val Ala Ala Leu Ser Ile Phe Thr Val
 545 550 555 560
 Ile Trp Pro Leu Ser Gln Val Gly Gly Glu Phe Leu Pro Lys Ile Asn
 565 570 575
 Glu Gly Asp Leu Leu Tyr Met Pro Ser Thr Leu Pro Gly Val Ser Pro
 580 585 590
 Ala Glu Ala Ala Ala Leu Leu Gln Thr Thr Asp Lys Leu Ile Lys Ser
 595 600 605
 Val Pro Glu Val Ala Ser Val Phe Gly Lys Thr Gly Lys Ala Glu Thr
 610 615 620
 Ala Thr Asp Ser Ala Pro Leu Glu Met Val Glu Thr Thr Ile Gln Leu
 625 630 635 640
 Lys Pro Glu Asp Gln Trp Arg Pro Gly Met Thr Ile Asp Lys Ile Ile
 645 650 655
 Glu Glu Leu Asp Arg Thr Val Arg Leu Pro Gly Leu Ala Asn Leu Trp
 660 665 670
 Val Pro Pro Ile Arg Asn Arg Ile Asp Met Leu Ser Thr Gly Ile Lys
 675 680 685
 Ser Pro Ile Gly Ile Lys Val Ser Gly Thr Val Leu Ser Asp Ile Asp
 690 695 700
 Ala Thr Ala Gln Ser Ile Glu Ala Val Ala Lys Thr Val Pro Gly Val
 705 710 715 720
 Val Ser Ala Leu Ala Glu Arg Leu Glu Gly Gly Arg Tyr Ile Asp Val

Asp Ile Asn Arg Glu Lys Ala Ser Arg Tyr Gly Met Thr Val Gly Asp
 725 730 735
 740 745 750
 Val Gln Leu Phe Ile Ser Ser Ala Ile Gly Gly Ala Thr Val Gly Glu
 755 760 765
 Thr Val Glu Gly Val Ala Arg Tyr Pro Ile Asn Ile Arg Tyr Pro Gln
 770 775 780
 Asp Tyr Arg Asn Ser Pro Gln Ala Leu Lys Gln Met Pro Ile Leu Thr
 785 790 795 800
 Pro Met Lys Gln Gln Ile Thr Leu Gly Asp Val Ala Asp Ile Lys Val
 805 810 815
 Val Ser Gly Pro Thr Met Leu Lys Thr Glu Asn Ala Arg Pro Ala Ser
 820 825 830
 Trp Ile Tyr Ile Asp Ala Arg Gly Arg Asp Met Val Ser Val Val Asn
 835 840 845
 Asp Ile Lys Thr Ala Ile Ser Gln Lys Val Lys Leu Arg Pro Gly Thr
 850 855 860
 Ser Val Ser Phe Ser Gly Gln Phe Glu Leu Leu Glu His Ala Asn Lys
 865 870 875 880
 Lys Leu Lys Leu Met Val Pro Met Thr Val Met Ile Ile Phe Ile Leu
 885 890 895
 Leu Tyr Leu Ala Phe Arg Arg Val Asp Glu Ala Leu Leu Ile Leu Met
 900 905 910
 Ser Leu Pro Phe Ala Leu Val Gly Gly Ile Trp Phe Leu Tyr Trp Gln
 915 920 925
 Gly Phe His Met Ser Val Ala Thr Gly Thr Gly Phe Ile Ala Leu Ala
 930 935 940
 Gly Val Ala Ala Glu Phe Gly Val Val Met Leu Met Tyr Leu Arg His
 945 950 955 960
 Ala Ile Glu Ala His Pro Glu Leu Ser Arg Lys Glu Thr Phe Thr Pro
 965 970 975
 Glu Gly Leu Asp Glu Ala Leu Tyr His Gly Ala Val Leu Arg Val Arg
 980 985 990
 Pro Lys Ala Met Thr Val Ala Val Ile Ile Ala Gly Leu Leu Pro Ile
 995 1000 1005
 Leu Trp Gly Thr Gly Ala Gly Ser Glu Val Met Ser Arg Ile Ala Ala
 1010 1015 1020
 Pro Met Ile Gly Gly Met Ile Thr Ala Pro Leu Leu Ser Leu Phe Ile
 1025 1030 1035 1040
 Ile Pro Ala Ala Tyr Lys Leu Ile Trp Leu Arg Arg His Lys Lys Ser
 1045 1050 1055
 Val Ser

<210> 6526

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 6526

Leu Pro Pro Leu Arg Gly Leu Ala Thr Arg Gly Glu Asp Asp Asp Gly
 1 5 10 15
 Ala Lys Cys Gly Arg Cys Gly His Glu Leu Phe Asp Gly Asp Val Ile
 20 25 30
 Asn Ala Thr Gly Ala Thr Leu Asp Lys Leu Leu Lys Asp Asp Leu Pro
 35 40 45
 Val Val Val Asp Phe Trp Ala Pro Trp Cys Gly Pro Cys Arg Asn Phe
 50 55 60
 Ala Pro Ile Phe Glu Asp Val Ala Glu Glu Arg Ser Gly Lys Met Arg
 65 70 75 80
 Phe Val Lys Val Asn Thr Glu Ala Glu Arg Glu Leu Ser Ala Arg Phe

85 90 95
 Arg Ile Arg Ser Ile Pro Thr Ile Met Ile Phe Lys Asn Gly Glu Val
 100 105 110
 Ile Asp Met Leu Asn Gly Ala Val Pro Lys Ala Pro Phe Asp Ser Trp
 115 120 125
 Leu Asn Glu Ser Leu
 130

<210> 6527

<211> 905

<212> PRT

<213> Enterobacter cloacae

<400> 6527

Gly Arg Lys Arg Leu Lys Ser Ser Gly Arg Leu His Ser Gln Glu Ala
 1 5 10 15
 Cys Met Ser Gln Arg Gly Leu Glu Ala Leu Leu Arg Pro Lys Ser Ile
 20 25 30
 Ala Val Ile Gly Ala Ser Met Lys Pro Asp Arg Ala Gly Tyr Leu Met
 35 40 45
 Met Arg Asn Leu Leu Ala Gly Gly Phe Asn Gly Pro Val Met Pro Val
 50 55 60
 Thr Pro Ala Tyr Lys Ala Val Gln Gly Val Leu Ala Trp Pro Asp Val
 65 70 75 80
 Gln Ser Leu Pro Phe Val Pro Asp Leu Ala Val Leu Cys Thr His Ala
 85 90 95
 Lys Arg Asn Leu Glu Leu Leu Glu Ser Leu Gly Gln Lys Gly Cys Lys
 100 105 110
 Thr Cys Ile Ile Leu Ser Ser Pro Pro Glu Gln Gln Pro Glu Leu Leu
 115 120 125
 Ala Cys Ala Ser Arg Tyr Gln Met Arg Ile Leu Gly Pro Asn Ser Leu
 130 135 140
 Gly Leu Leu Ala Pro Trp Gln Gly Leu Asn Ala Ser Phe Ser Pro Val
 145 150 155 160
 Pro Ile Arg Lys Gly Lys Leu Ala Phe Ile Ser Gln Ser Ala Ala Val
 165 170 175
 Ser Asn Thr Ile Leu Asp Trp Ala Gln Gln Arg Glu Met Gly Phe Ser
 180 185 190
 Tyr Phe Ile Ala Leu Gly Asp Ser Leu Asp Ile Asp Val Asp Glu Leu
 195 200 205
 Leu Asp Phe Leu Ala Arg Asp Ser Lys Thr Ser Ala Ile Leu Leu Tyr
 210 215 220
 Leu Glu His Leu Ser Asp Ala Arg Arg Phe Val Ser Ala Ser Arg Ser
 225 230 235 240
 Ala Ser Arg Asn Lys Pro Ile Leu Val Ile Lys Ser Gly Arg Ser Pro
 245 250 255
 Ala Ala Gln Arg Leu Leu His Ser Arg Ser Gly Met Asp Pro Ala Trp
 260 265 270
 Asp Ala Ala Ile Gln Arg Ala Gly Leu Leu Arg Val Gln Asp Thr His
 275 280 285
 Glu Leu Phe Ser Ala Val Glu Thr Leu Ser His Met Arg Pro Leu Arg
 290 295 300
 Gly Glu Lys Leu Met Ile Val Ser Asn Gly Ala Ala Pro Ala Ala Leu
 305 310 315 320
 Ala Leu Asp Glu Leu Trp Leu Arg Asn Gly Lys Leu Ala Thr Leu Gly
 325 330 335
 Glu Glu Thr Leu Gln Arg Leu Arg Asp Ala Leu Pro Gly Ser Val Val
 340 345 350
 Pro Asp Asn Pro Leu Asp Leu Arg Asp Asp Ala Ser Ser Asp Arg Tyr
 355 360 365
 Ile Lys Ala Ile Thr Ile Leu Leu Asp Ser Gln Asp Phe Asp Ala Leu

370	375	380
Met Ile Ile His Ser	Pro Ser Ala Val	Ala Pro Gly Ser Glu Ser Ala
385	390	395
Arg Ala Leu Ile Glu	Ala Val Arg Asn His	Pro Arg Gly Lys Tyr Val
405	410	415
Thr Leu Leu Thr Asn	Trp Cys Gly Glu Phe	Ser Ser Gln Glu Ala Arg
420	425	430
Arg Leu Phe Ser Glu	Ala Gly Leu Pro Thr	Tyr Arg Thr Pro Glu Gly
435	440	445
Thr Ile Thr Ala Phe	Met His Met Val	Glu Tyr Arg Arg Asn Gln Lys
450	455	460
Gln Leu Arg Glu Thr	Pro Ala Leu Pro Gly	Asn Leu Thr Ala Asn Ser
465	470	475
Val Asp Val His Arg	Leu Leu Gln Gln Ala	Ile Glu Glu Gly Ala Thr
485	490	495
Ser Leu Asp Thr His	Glu Val Gln Pro Ile	Leu Gly Ser Tyr Gly Met
500	505	510
Gln Thr Leu Pro Thr	Trp Ile Ala Gly Asp	Ser Ala Glu Ala Val His
515	520	525
Ile Ala Glu Gln Ile	Gly Tyr Pro Val Ala	Leu Lys Leu Arg Ser Pro
530	535	540
Asp Ile Pro His Lys	Ser Asp Val Gln Gly	Val Met Leu Tyr Leu Arg
545	550	555
Thr Ala Thr Glu Val	Gln Gln Ala Ala Asp	Ala Ile Ile Asp Arg Val
565	570	575
Lys Met Thr Trp Pro	Gln Ala Arg Ile His	Gly Leu Leu Val Gln Ser
580	585	590
Met Ala Asn Arg Ala	Gly Ala Gln Glu Leu	Arg Val Val Val Glu His
595	600	605
Asp Pro Val Phe Gly	Pro Leu Ile Met Leu	Gly Glu Gly Val Glu
610	615	620
Trp Arg Pro Glu Glu	Gln Ala Val Val Ala	Leu Pro Pro Leu Asn Met
625	630	635
Asn Leu Ala Arg Tyr	Leu Ile Ile Gln Ala	Ile Lys Ser Lys Lys Ile
645	650	655
Arg Gly Arg Ser Ala	Leu Arg Pro Leu Asp	Ile Ala Gly Leu Ser Gln
660	665	670
Phe Leu Val Lys Val	Ser Asn Leu Ile Val	Asp Cys Ala Glu Ile Gln
675	680	685
Arg Leu Asp Ile His	Pro Leu Leu Ala Ser	Gly Asn Glu Phe Thr Ala
690	695	700
Leu Asp Val Thr Leu	Asp Ile Ala Pro Tyr	Ile Gly Asp Pro Glu Ser
705	710	715
Arg Leu Ala Ile Arg	Pro Tyr Pro Leu His	Leu Glu Glu Trp Val Glu
725	730	735
Met Lys Asn Gly Glu	Arg Ala Leu Phe Arg	Pro Ile Leu Pro Glu Asp
740	745	750
Glu Pro Leu Leu Arg	Ala Phe Ile Ser	Gln Val Thr Lys Glu Asp Leu
755	760	765
Tyr Tyr Arg Tyr Phe	Ser Glu Ile Asn Glu	Phe Thr His Asp Asp Leu
770	775	780
Ala Asn Met Thr Gln	Ile Asp Tyr Asp Arg	Glu Met Ala Ile Val Ala
785	790	795
Val Arg Arg Ser Gly	Ala Gly Glu Glu Ile	Leu Gly Val Thr Arg Ala
805	810	815
Ile Ser Asp Pro Asp	Asn Val Asp Ala Glu	Phe Ala Val Leu Val Arg
820	825	830
Ser Asp Leu Lys Gly	Leu Gly Leu Gly Arg	Arg Leu Leu Glu Lys Leu
835	840	845
Ile Gly Tyr Thr Arg	Asp His Gly Leu Ser	Arg Leu Asn Gly Ile Thr
850	855	860

Met Pro Asn Asn Arg Gly Met Val Thr Leu Ala Arg Lys Leu Gly Phe
 865 870 875 880
 Asp Val Asp Ile Gln Leu Asp Glu Gly Ile Val Ser Leu Ser Leu Ser
 885 890 895
 Leu Thr Ser Thr Asp Lys Gln Glu
 900 905

<210> 6528

<211> 261

<212> PRT

<213> *Enterobacter cloacae*

<400> 6528

Thr Asn Pro Cys Asn Ile Arg Gly Ala Tyr Leu Val Pro Arg Ser Leu
 1 5 10 15
 Leu Cys Glu Asn Gly Val Phe Pro Ala Phe Ser Pro Met Thr Asp Asn
 20 25 30
 Ala Val Leu Gln Leu Arg Ala Glu Arg Leu Ala Arg Ala Thr Arg Pro
 35 40 45
 Phe Leu Ala Arg Gly Asn Arg Ile Arg Arg Cys Gln Arg Cys Leu Leu
 50 55 60
 Pro Leu Lys Val Cys Leu Cys Glu Thr Leu Ala Pro Ser Glu Ala Lys
 65 70 75 80
 Ser Arg Phe Cys Leu Val Met Phe Asp Thr Glu Pro Met Lys Pro Ser
 85 90 95
 Asn Thr Gly Arg Leu Ile Ala Asp Ile Leu Pro Asn Thr Ala Ala Phe
 100 105 110
 Gln Trp Ser Arg Thr Glu Pro Pro Gln Ala Leu Leu Asp Leu Val Ala
 115 120 125
 Ser Pro Asp Tyr Gln Pro Met Val Val Phe Pro Ala Ser Tyr Ala Gly
 130 135 140
 Glu Gln Arg Gln Val Leu Thr Ala Pro Pro Ser Gly Lys Pro Pro Leu
 145 150 155 160
 Phe Ile Met Leu Asp Gly Thr Trp Thr Glu Ala Arg Lys Met Phe Arg
 165 170 175
 Lys Ser Pro Tyr Leu Asp Ala Leu Pro Val Ile Ser Val Asp Leu Ser
 180 185 190
 Arg Val Ser Ala Tyr Arg Leu Arg Glu Ala His Ala Asp Gly Gln Tyr
 195 200 205
 Cys Thr Ala Glu Val Ala Ile Ala Leu Leu Asp Leu Ala Gly Asp Thr
 210 215 220
 Gln Ala Ala Gly Ala Leu Gly Ser His Phe Ser Cys Phe Arg Glu Arg
 225 230 235 240
 Tyr Leu Ala Gly Lys Thr Val His Lys Gly Ser Val Thr Ala Thr Glu
 245 250 255
 Ala Glu Ser Val
 260

<210> 6529

<211> 459

<212> PRT

<213> *Enterobacter cloacae*

<400> 6529

Thr Glu Lys Lys Arg Thr Val Met Leu Ser Lys Phe Lys Arg Asn Lys
 1 5 10 15
 His Gln Gln His Leu Ala Gln Leu Pro Lys Ile Ser Gln Ser Val Asp
 20 25 30
 Asp Val Glu Phe Phe Tyr Ala Pro Ala His Phe Arg Glu Thr Leu Leu
 35 40 45
 Glu Lys Ile Ala Ser Ala Thr Arg Arg Ile Cys Ile Val Ala Leu Tyr

50	55	60
Leu Glu Gln Asp Glu Gly	Gly Arg Ala Ile Leu	Asn Ala Leu Tyr Glu
65	70	75
Ala Lys Arg Gln Arg Pro	Glu Leu Asp Val Arg	Val Leu Val Asp Trp
85	90	95
His Arg Ala Gln Arg Gly	Arg Ile Gly Ala Ala	Ser Asn Thr Asn
100	105	110
Ala Asp Trp Tyr Cys Arg	Thr Ala Gln Glu Asn	Pro Gly Ile Asp Ile
115	120	125
Pro Val Tyr Gly Val Pro	Val Asn Thr Arg Glu	Ala Leu Gly Val Leu
130	135	140
His Phe Lys Gly Phe Ile	Ile Asp Asp Ser Val	Leu Tyr Ser Gly Ala
145	150	155
Ser Leu Asn Asp Val Tyr	Leu His Gln Leu Asp	Lys Tyr Arg Tyr Asp
165	170	175
Arg Tyr His Leu Ile Arg	Asn Pro Gln Met Ala	Asp Ile Met Phe Asn
180	185	190
Trp Val Asp Lys Asn Leu	Val His Gly Arg Gly	Val His Arg Leu Asp
195	200	205
Asp Pro His Arg Pro Lys	Ser Pro Glu Ile Lys	Asn Asp Val Arg Ser
210	215	220
Phe Arg Gln Glu Leu Arg	Asp Ala Val Tyr Arg	Phe Gln Gly Asp Ala
225	230	235
Ser Asn Glu Glu Leu Ser	Val Thr Pro Leu Val	Gly Leu Gly Lys Ser
245	250	255
Ser Leu Leu Asn Lys Thr	Ile Phe His Leu Met	Pro Cys Ala Glu His
260	265	270
Lys Leu Thr Ile Cys Thr	Pro Tyr Phe Asn Leu	Pro Ala Val Leu Val
275	280	285
Arg Asn Ile Ile Gln Leu	Leu Arg Asp Gly Lys	Lys Val Glu Ile Ile
290	295	300
Val Gly Asp Lys Thr Ala	Asn Asp Phe Phe Ile	Pro Glu Asp Gln Pro
305	310	315
Phe Lys Ile Ile Gly Ala	Leu Pro Tyr Leu Tyr	Glu Ile Asn Leu Arg
325	330	335
Arg Phe Leu Ser Arg Leu	Gln Tyr Tyr Val Asn	Thr Asp Gln Leu Val
340	345	350
Val Arg Leu Trp Lys Asp	Glu Asp Asn Ser Tyr	His Leu Lys Gly Ile
355	360	365
Trp Val Asp Asp Glu Trp	Met Leu Leu Thr Gly	Asn Asn Leu Asn Pro
370	375	380
Arg Ala Trp Arg Leu Asp	Leu Glu Asn Ala Ile	Leu Ile His Asp Pro
385	390	395
Gln His Ala Leu Ala Ala	Lys Arg Asp Arg Glu	Leu Glu Leu Ile Arg
405	410	415
Thr His Thr Thr Val Val	Arg His Tyr Arg Asp	Leu Gln Ser Ile Ala
420	425	430
Asp Tyr Pro Val Lys Val	Arg Lys Leu Ile Arg	Arg Leu Arg Arg Ile
435	440	445
Arg Ile Asp Arg Leu Ile	Ser Arg Ile Leu	
450	455	

<210> 6530

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 6530

Phe	Ala	Val	Tyr	Val	Gly	Ser	Val	Ser	Thr	Ala	Ser	Ser	Ala	Ala	Phe
1			5						10				15		
Cys	Asn	Thr	Arg	Ala	Leu	Ser	Ser	Thr	Gly	Leu	Phe	Leu	Trp	Ser	Leu

20										25					30				
Leu	Met	Arg	Thr	Pro	Phe	Leu	Ile	Ile	Pro	Leu	Phe	Leu	Thr	Gly	Cys				
35					40					45									
Ser	His	Met	Ala	Asn	Asp	Asn	Trp	Ser	Gly	Gln	Asp	Lys	Ala	Gln	His				
50					55					60									
Phe	Leu	Ala	Ser	Ala	Met	Leu	Ser	Ala	Ala	Gly	Asn	Glu	Tyr	Ala	Leu				
65					70					75									
His	Gln	Gly	Tyr	Ser	Arg	Asp	Arg	Ser	Ala	Thr	Met	Gly	Leu	Met	Phe				
85					90					95									
Ser	Ile	Ser	Leu	Gly	Ala	Ser	Lys	Glu	Leu	Trp	Asp	Ser	Arg	Pro	Ser				
100					105					110									
Gly	Ser	Gly	Trp	Ser	Trp	Lys	Asp	Phe	Ala	Trp	Asp	Val	Ala	Gly	Ala				
115					120					125									
Thr	Thr	Gly	Tyr	Ala	Val	Trp	Gln	Met	Ala	His	Tyr								
130					135					140									

<210> 6531

<211> 459

<212> PRT

<213> *Enterobacter cloacae*

<400> 6531

Arg 1	Phe 1	Val 1	Leu 1	Asn 5	Pro 1	Val 1	Leu 1	Leu 1	Phe 10	Val 1	Gly 1	Asn 1	Gly 1	Pro 15	Gln 1
Cys 2	Glu 2	Thr 2	Gly 20	Asp 2	Phe 2	Lys 2	Met 2	Thr 25	Glu 2	Thr 2	Val 2	Ala 30	Ser 30	Ala 30	Asp 30
Thr 3	Asp 3	Asn 35	Thr 3	Ser 3	Leu 3	Ala 40	Gly 40	Lys 3	Asp 3	Thr 3	Arg 3	Arg 45	Arg 3	Val 3	Trp 3
Ala 4	Ile 50	Val 4	Gly 4	Ala 4	Ser 55	Ser 55	Gly 4	Asn 4	Leu 4	Val 60	Glu 60	Thr 45	Phe 45	Asp 45	Phe 45
Tyr 5	Val 65	Tyr 5	Ser 5	Phe 70	Cys 70	Ser 5	Leu 5	Tyr 5	Phe 75	Ala 75	His 75	Ile 75	Phe 80	Phe 80	Pro 80
Ser 6	Gly 6	Asn 85	Thr 6	Thr 85	Gln 6	Leu 6	Leu 90	Thr 6	Ala 90	Gly 6	Val 95	Phe 95	Phe 95	Ala 95	Ala 95
Ala 7	Gly 7	Phe 100	Met 7	Arg 7	Pro 7	Ile 105	Gly 105	Gly 7	Trp 7	Leu 7	Phe 110	Gly 110	Gly 110	Arg 110	Ile 110
Ala 8	Asp 115	Arg 115	Lys 8	Gly 8	Arg 120	Lys 120	Thr 8	Ser 120	Met 8	Leu 140	Ile 140	Ser 125	Val 125	Cys 125	Met 125
Met 9	Cys 130	Val 9	Gly 9	Ser 135	Leu 135	Val 135	Ile 9	Ala 9	Cys 140	Leu 140	Pro 140	Gly 140	Tyr 140	Asp 140	Thr 140
Ile 10	Gly 145	Thr 10	Trp 10	Ala 150	Pro 150	Ala 150	Leu 150	Leu 155	Leu 155	Leu 155	Ala 155	Arg 155	Leu 160	Phe 160	Gln 160
Gly 11	Leu 145	Ser 11	Val 11	Gly 165	Gly 165	Glu 11	Tyr 11	Gly 170	Thr 170	Ser 170	Ala 170	Thr 175	Tyr 175	Met 175	Ser 175
Glu 12	Val 180	Ala 12	Val 12	Glu 180	Gly 180	Arg 12	Lys 12	Gly 185	Phe 185	Tyr 185	Ala 185	Ser 190	Phe 190	Gln 190	Tyr 190
Val 13	Thr 195	Leu 13	Ile 13	Gly 195	Gly 195	Gln 13	Leu 200	Leu 200	Ala 200	Leu 205	Leu 205	Val 205	Val 205	Val 205	Ile 205
Leu 14	Gln 210	Gln 14	Ile 14	Leu 215	Ser 215	Asp 215	Glu 14	Asp 215	Leu 220	Ala 220	Ala 220	Trp 220	Gly 220	Trp 220	Arg 220
Ile 15	Pro 225	Phe 15	Ala 15	Leu 230	Gly 230	Ala 15	Ala 15	Leu 235	Ala 235	Val 235	Val 235	Ala 240	Leu 240	Leu 240	Leu 240
Arg 16	Arg 16	Gln 16	Leu 16	Asp 245	Glu 16	Thr 16	Ser 16	Gln 250	Gln 250	Glu 16	Val 255	Arg 255	Ala 255	Leu 255	Lys 255
Glu 17	Ala 17	Gly 17	Ser 17	Met 260	Lys 17	Gly 17	Leu 265	Trp 265	Arg 265	Asn 265	Arg 265	Lys 270	Ala 270	Phe 270	Leu 270
Met 18	Val 275	Leu 18	Gly 18	Phe 275	Thr 18	Ala 18	Ala 280	Gly 18	Ser 280	Leu 285	Ser 285	Phe 285	Tyr 285	Thr 285	Phe 285
Thr 19	Thr 290	Tyr 19	Met 19	Gln 19	Lys 19	Tyr 295	Thr 19	Val 295	Asn 295	Thr 300	Thr 300	Gly 300	Met 300	His 300	Ala 300
Asn 20	Val 20	Ala 20	Ser 20	Val 20	Val 20	Met 20	Thr 20	Val 20	Ala 20	Leu 20	Val 20	Val 20	Phe 20	Met 20	Leu 20

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305          310          315          320
Ile Gln Pro Ile Val Gly Ala Leu Ser Asp Lys Ile Gly Arg Arg Thr
          325          330          335
Ser Met Leu Ile Phe Gly Gly Met Leu Thr Leu Gly Thr Val Pro Leu
          340          345          350
Leu Thr Ala Leu Gln His Thr Thr Ser Pro Tyr Ala Ala Phe Ala Leu
          355          360          365
Ile Met Val Ala Leu Ile Ile Ile Ser Phe Tyr Thr Ala Ile Ser Gly
          370          375          380
Ile Leu Lys Ala Glu Met Phe Pro Ala Gln Val Arg Ala Leu Gly Val
385          390          395          400
Gly Leu Ser Tyr Ala Val Ala Asn Ala Leu Phe Gly Gly Ser Ala Glu
          405          410          415
Tyr Val Ala Leu Ser Leu Lys Ser Trp Gly Ser Glu Thr Thr Phe Phe
          420          425          430
Trp Tyr Val Thr Ile Met Gly Ala Leu Ala Phe Ile Val Ser Leu Met
          435          440          445
Leu His Arg Lys Gly Lys Gly Ile Arg Leu
          450          455

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<210> 6532

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6532

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Gly Gly Leu Val Arg Ser Cys Gln Ser Arg Gly Glu Asp Leu Glu Leu
1          5          10          15
His Leu Glu Gln Leu Phe Leu Glu His Gly Leu Thr Gln Phe Ala Thr
          20          25          30
Gln Ser Val Thr Glu Gly Asn Lys Lys Pro Asp Phe Leu Phe Pro Ser
          35          40          45
Ser Asp Ala Tyr His Asp Lys Ala Phe Pro Asp Glu Lys Leu His Met
50          55          60
Leu Ala Val Lys Thr Thr Cys Lys Asp Arg Trp Arg Gln Val Leu Asn
65          70          75          80
Glu Ala Asp Arg Ile Gln Asn Ile His Leu Phe Thr Leu Gln Glu Gly
          85          90          95
Val Ser Leu Ala Gln Phe Lys Glu Met Gln Gln Glu Arg Val Thr Leu
          100          105          110
Val Val Pro Ser Ser Leu His Lys Lys Tyr Pro Glu Ala Val Arg Pro
          115          120          125
Glu Leu Met Thr Leu Gly His Phe Ile Ala Arg Leu Ile Gly Ile Tyr
130          135          140
Ala Ala
145

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<210> 6533

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 6533

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Ser Arg Val Ser Gly Phe Leu Ser Gln Leu Thr Pro Pro Ala Ala Ser
1          5          10          15
Leu Thr Ser Tyr Thr Gln Leu Pro Glu Ser Pro Met Thr Trp Lys Asn
          20          25          30
Thr Ala Glu Gln Asn Ala Ile Ile Glu Trp Lys Gly Thr His Leu Val
          35          40          45
Val Asn Ala Phe Ala Gly Thr Gly Lys Thr Thr Thr Leu Val Ser Tyr
50          55          60

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Ala Glu Ala Asn Pro Glu Ser Arg Met Leu Tyr Leu Ala Tyr Asn Arg
 65 70 75 80
 Ala Val Arg Asp Glu Ala Glu Arg Arg Phe Pro Tyr Asn Val Glu Cys
 85 90 95
 Lys Thr Ser His Gln Leu Ala Trp Ala Arg Phe Gly Lys His Phe Arg
 100 105 110
 Asp Arg Leu Thr Ala Ser Leu Arg Ile Thr Asp Val Ala Arg Lys Leu
 115 120 125
 Asn Thr Arg His Trp Pro Leu Ala Arg Leu Ala Leu Ser Gly Leu Asn
 130 135 140
 Met Phe Leu Cys Ser Ala Asp Pro Glu Pro Gly Leu Ile His Leu Pro
 145 150 155 160
 Ser Glu Asp Asp Arg His Gly Leu Asp Ala Gly Lys Ile Leu Gly Ala
 165 170 175
 Ile Gln Ile Leu Trp Tyr Glu Met Ser Arg Thr Asp Ser Val Phe Pro
 180 185 190
 Val Thr His Asp Thr Tyr Leu Lys Met Phe Gln Leu Ser Gln Pro Asp
 195 200 205
 Leu Ser Lys Arg Trp Asp Thr Ile Leu Phe Asp Glu Ala Gln Asp Ala
 210 215 220
 Asn Pro Val Thr Ser Ala Phe Val Leu Asn Gln Pro Cys Arg Val Ile
 225 230 235 240
 Leu Val Gly Asp Arg Tyr Gln Gln Ile Tyr Arg Phe Arg Gly Ala Asp
 245 250 255
 Asn Ala Leu Asn Ala Arg Gln Leu Ala Gln Ala Asp Arg Leu Trp Leu
 260 265 270
 Thr Ala Ser Phe Arg Phe Gly Pro Glu Val Ala Arg Val Ala Asn Ile
 275 280 285
 Leu Leu Glu Arg Ala Gly Glu Glu Lys Arg Val Ala Gly Asn Gly Gly
 290 295 300
 Gln Asp Ala Val Val Ser Asp Leu Pro Ala Gly Ala Glu His Ile Thr
 305 310 315 320
 Val Leu Ser Arg Thr Val Ser Gly Val Ile Gly Ser Ala Leu Thr Ala
 325 330 335
 Ser Leu Met Glu Lys Lys Val Phe Trp Val Gly Gly Ile Glu Gly Tyr
 340 345 350
 Lys Thr Glu Glu Leu Glu Asp Leu Tyr Trp Phe Ser Ala Asp Met Pro
 355 360 365
 Glu Lys Met Gln Ser Pro Arg Leu Ser Arg Asp Tyr Arg Asp Phe Asp
 370 375 380
 Glu Tyr Cys Ser Ile Ala Lys Ala Thr Gln Asp Val Glu Met Asn Gln
 385 390 395 400
 Ala Ile Arg Leu Leu Asp Asp Phe Phe Pro Leu Pro Gln Lys Leu Ala
 405 410 415
 Ile Met Arg Arg Gln Val Val Ser His Glu Lys Glu Ala Gln Val Thr
 420 425 430
 Val Ser Thr Ala His Arg Ser Lys Gly Leu Glu Trp Ser Val Val Met
 435 440 445
 Leu Ser Glu Asp Phe Thr Asp Ile Thr Asp Pro Leu Leu Ser Gln Glu
 450 455 460
 Glu Arg Gln Asp Glu Thr Asn Leu Leu Tyr Val Ala Val Thr Arg Ala
 465 470 475 480
 Arg Lys Thr Leu Val Leu Asn Glu Leu Met Arg Trp Leu Ser Glu Ala
 485 490 495
 Gly Glu Gly Asp Asp Glu Asn Asp Ala Val Met Pro Asp Asp Thr Gly
 500 505 510
 Glu Ile Ser Gly Thr Glu
 515

<210> 6534

<211> 548

<212> PRT
 <213> *Enterobacter cloacae*

<220>
 <221>UNSURE
 <222>(85)

<220>
 <221>UNSURE
 <222>(88)

<400> 6534

Ala	Ala	Leu	Tyr	Gln	Glu	Asn	Ile	Met	Leu	Ser	Arg	Ile	Arg	Thr	Leu
1			5						10					15	
Arg	Ser	Leu	Phe	Ser	Lys	Gly	Glu	Pro	Glu	Ala	Val	His	His	Ile	Ser
		20					25					30			
Thr	Val	Thr	Pro	Val	Gly	Tyr	His	Ala	Pro	Arg	Gly	Ala	Gly	Met	Leu
		35					40				45				
Cys	Ala	Ser	Pro	Leu	Arg	Lys	Thr	Cys	Leu	Gln	Gln	Ile	Trp	Glu	Asn
	50					55				60					
Cys	Ser	Leu	Pro	Ala	Asp	Ile	Tyr	Gln	Arg	Leu	Tyr	Leu	Ala	Pro	Leu
65					70					75				80	
Asn	Gly	Leu	Leu	Xaa	Arg	Val	Xaa	Asn	Val	Pro	Ala	Thr	Gln	Lys	Gly
				85					90					95	
Arg	Trp	Ser	Gln	Ser	Ala	Gly	Phe	Gly	Asp	Leu	Thr	Leu	Gln	Phe	Thr
			100					105					110		
Thr	Cys	Ala	Val	Arg	Leu	Ala	Lys	Gly	Tyr	Met	Phe	Pro	Pro	Gly	Ala
		115					120					125			
Ala	Pro	Glu	Glu	Gln	Ala	Glu	Gln	Asn	Val	Met	Trp	Asn	Ala	Val	Ile
	130					135				140					
Ile	Trp	Ser	Ala	Leu	Phe	Trp	His	Leu	Leu	Phe	Leu	Ala	Thr	Leu	Glu
145				150						155				160	
Gly	Glu	Leu	Leu	Asp	Gly	Lys	Ser	Trp	Leu	Pro	Gly	Met	Thr	Ile	Pro
			165					170					175		
Asp	Ser	Pro	Tyr	Arg	Phe	Arg	Phe	Arg	Glu	Ala	Glu	Asn	Ala	Ser	Ala
			180					185					190		
Phe	Ala	Ala	Leu	Ala	Ala	Gly	Gln	Leu	Met	Pro	Thr	Glu	Ala	Thr	Gly
		195					200					205			
Trp	Leu	Ala	Glu	Asn	Pro	Glu	Ala	Leu	Cys	Asn	Leu	Ala	Gly	Ala	Leu
	210					215					220				
Trp	Asn	Gln	His	Pro	Gly	Met	Pro	Leu	Ile	Arg	Gly	Leu	Met	Lys	Gln
225					230					235					
Ala	Ala	Glu	Lys	Val	Glu	Ser	Pro	Ser	Leu	Gly	Ile	Ser	Gly	Ala	Asn
			245						250					255	
Glu	Lys	Val	Asp	Thr	Leu	Ala	Glu	Pro	Ala	Leu	Ser	Val	Ser	Arg	Thr
			260					265					270		
Ser	Ser	Asp	Arg	Glu	Thr	Glu	Leu	Gln	Pro	Ser	Ser	Glu	Ala	Lys	Leu
		275					280					285			
Lys	Thr	Ala	Leu	Pro	Glu	Ile	Ala	Asp	Leu	Gln	Gly	Thr	Leu	Leu	Ala
	290					295					300				
Ser	Ser	Ile	Ala	Pro	Val	Pro	Met	Ala	Asp	Asp	Gly	Asn	Leu	Val	Ser
305				310						315				320	
Asn	Glu	Lys	Ala	Gly	Glu	Ile	Thr	Glu	Cys	Asp	Pro	Asn	Glu	Thr	Glu
			325					330					335		
Met	Ala	Asp	Thr	Glu	Met	Leu	Leu	Ser	Leu	Phe	Ser	Ala	Ile	Ser	Val
		340						345					350		
Pro	Asp	Met	Thr	Gly	Thr	Glu	Ala	Cys	Asp	Glu	Asp	Ser	Ser	Val	Asn
		355					360					365			
Ala	Arg	Ala	Glu	Asn	Glu	Pro	Glu	Phe	Ser	Pro	Leu	Asn	Glu	Ile	Ser
	370					375					380				
Pro	Glu	Ala	Asp	Lys	His	Glu	Ile	Asn	Gln	Thr	Ala	Ala	Glu	Asn	Ser

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385                               390                               395                               400
Phe Pro Glu Pro Asp Thr Glu Asp Asn Ile Pro Leu His Ser Val Asn
                               405                               410                               415
Ile Asp Met Gln Lys Thr Val Lys Lys Glu Gln Ala Gly Thr Glu Phe
                               420                               425                               430
Leu Arg Trp Leu Ser Glu Gly Ile Lys Ser Lys Arg Ile Asp Ile Asn
                               435                               440                               445
Gln Pro Asp Ser Arg Ala His Ala Val Ala Gly Phe Ile Phe Leu Arg
                               450                               455                               460
Val Pro Asp Ile Phe Tyr Leu Tyr Ile Arg Glu Ser Gly Ser Glu Leu
465                               470                               475                               480
Ser Arg Asp Ser Leu Gln Gln Glu Phe Glu Lys Leu His Ile His Arg
                               485                               490                               495
Val Arg Arg Gly Glu Arg Phe Ile Lys Ala Lys Leu Tyr His Ser Pro
                               500                               505                               510
Gly Lys Glu Gly Thr Phe Arg Pro Val Ser Gly Tyr Leu Val Lys Thr
                               515                               520                               525
Thr His Leu Phe Arg Gly Ala Ser Ser Pro Glu Asp Ser Gly Leu Leu
530                               535                               540
Ser Phe Leu
545

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<210> 6535

<211> 468

<212> PRT

<213> Enterobacter cloacae

<400> 6535

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Leu Gly His Leu Asn Pro Met Met Ile Asn Glu Ala Gln Ala Gln Ala
1                               5                               10                               15
Thr Ala Ala Ser Gly Ser Gly Asp Gly Arg Tyr Pro Ser Gly Leu Cys
                               20                               25                               30
Ala Gly Ala Glu Ile Ile Pro Ala Ala Asp Glu Gln Thr Lys Ala Glu
35                               40                               45
Pro Leu Thr Met Glu Ala Val Ile Thr Arg Glu Asn Leu Met Leu Ala
50                               55                               60
Tyr Gln Arg Val Val Glu Asn Lys Gly Ala Ala Gly Val Asp Asn Leu
65                               70                               75                               80
Ser Val Ala Glu Leu Lys Pro Trp Leu Lys Arg His Trp Pro Gly Ile
                               85                               90                               95
Arg Gln Ala Leu Ile Asp Gly Asn Tyr Gln Pro Arg Ala Ile Arg Arg
100                               105                               110
Met Asp Ile Pro Lys Pro Asp Gly Gly Val Arg Thr Leu Gly Ile Pro
115                               120                               125
Thr Val Val Asp Arg Leu Ile Gln Gln Ala Ile Ala Gln Arg Leu Ser
130                               135                               140
Ala Ile Val Asp Lys Asp Phe Ser Asp Ser Ser Tyr Gly Phe Arg Pro
145                               150                               155                               160
Gly Arg Ser Ala Trp Gln Ala Val Gln Gln Ala Gln Arg Tyr Val Arg
165                               170                               175
Ser Gly Lys Arg Trp Val Val Asp Met Asp Leu Glu Lys Phe Phe Asp
180                               185                               190
Arg Val Asp His Arg Leu Leu Leu Ala Arg Leu Ala Arg Lys Ile Arg
195                               200                               205
Asp Arg Arg Leu Leu Arg Leu Ile Arg Arg Tyr Leu Lys Ala Glu Met
210                               215                               220
Val Lys Gly Gly Glu Arg Glu Lys Arg Arg Glu Gly Met Pro Gln Gly
225                               230                               235                               240
Gly Pro Leu Ser Pro Leu Leu Ser Asn Ile Leu Leu Asp Glu Leu Asp
245                               250                               255
Lys Glu Leu Glu Arg Arg Gly His Ser Phe Cys Arg Tyr Ala Asp Asp

```

```

      260      265      270
Cys Asn Ile Tyr Val Ser Ser Arg Lys Ala Gly Glu Gln Ile Leu Glu
      275      280      285
Ala Val Arg Glu Phe Val Glu Ser Lys Leu Lys Leu Lys Val Asn Glu
      290      295      300
Gln Lys Ser Ala Val Ala Arg Pro Trp Glu Arg Lys Phe Leu Gly Tyr
      305      310      315      320
Ser Val Thr Trp His Lys Gln Thr Arg Leu Lys Ile Ala Ala Ala Ser
      325      330      335
Val Gly Arg Leu Lys Asp Lys Ile Arg Ser Leu Thr Thr Gly Asn Arg
      340      345      350
Ser Arg Ser Val Lys Ala Thr Ile Asp Glu Leu Thr Pro Leu Leu Arg
      355      360      365
Gly Trp Ile Ser Tyr Phe Arg Leu Thr Glu Val Arg Gly Ile Leu Glu
      370      375      380
Glu Leu Asp Gly Trp Ile Asn Arg Lys Leu Arg Cys Gln Met Trp Arg
      385      390      395      400
Gln Trp Lys Arg Pro Arg Ser Arg Ala Arg Met Leu Gln Lys Ala Gly
      405      410      415
Leu Gly Arg Asp Arg Ala Met Leu Ser Ala Tyr Asn Gly His Gly Ala
      420      425      430
Trp Trp Asn Ser Gly Ala Ser His Met Asn Gln Ala Ile Lys Arg Ser
      435      440      445
Trp Phe Arg Gly Leu Gly Leu Ile Ser Leu Leu Glu His His Arg Gln
      450      455      460
Phe Gln Arg
465

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<210> 6536

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 6536

```

Thr Gln Thr Asn Arg Pro Ala Ala Glu Ile Leu Pro Glu Leu Gly Gln
1      5      10      15
Leu Ser Arg Arg Gln Ile Ala Ala Leu Val Glu Val Ala Pro Tyr Asp
      20      25      30
Arg Asp Ser Gly Arg Met Lys Gly Arg Arg Val Ile Trp Gly Gly Lys
      35      40      45
Ser Trp Pro Ser Ile His Phe Val Tyr Gly Cys Ala Phe Cys Cys Thr
      50      55      60
Val Gln Ser
65

```

<210> 6537

<211> 532

<212> PRT

<213> Enterobacter cloacae

<400> 6537

```

Thr Ala Asp Pro Arg Cys Cys Lys Thr Asp Val Cys Leu Trp Phe Asp
1      5      10      15
Gly Glu Pro Lys Lys Arg Thr Asn Leu Asn His Trp Leu Asn Ile Gln
      20      25      30
Ile Asn Leu Phe Tyr Leu Gly Gln Met Ser Asp Met Val Ser Pro Met
      35      40      45
Arg Pro Thr Gly Gly Ala Met Ser Glu Phe Glu Leu Leu Ala Gln Asp
      50      55      60
Leu Leu Gln Lys Ser Glu Glu Glu Lys Leu Gln Gln Glu Lys Asp
65      70      75      80

```

Lys Glu Leu Ile Ala Lys Val Leu Glu Ile Tyr Asp Gln Lys Tyr Val
 85 90
 Ala Glu Leu Leu Arg Lys Val Gly Asn Asn Asp Trp Ser Arg Glu Thr
 100 105
 Ile Asn Arg Trp Ile Asn Gly Lys Cys Gly Pro Lys Ser Leu Thr Ser
 115 120
 Ala Glu Glu Ile Leu Leu Arg Lys Met Leu Pro Glu Pro Pro Lys His
 130 135
 His Pro Asp Tyr Ala Phe Arg Phe Ile Asp Leu Phe Ala Gly Ile Gly
 145 150 155 160
 Gly Ile Arg Lys Gly Phe Glu Glu Ile Gly Arg His Cys Val Phe Thr
 165 170 175
 Ser Glu Trp Asn Lys Glu Ala Val Arg Thr Tyr Lys Ala Asn Trp Phe
 180 185 190
 Asn Asp Glu Leu Glu His Lys Phe Asn Leu Asp Ile Arg Glu Val Thr
 195 200 205
 Leu Ser Asp Arg Glu Asp Leu Ser Glu Thr Ala Ala Tyr Lys His Ile
 210 215 220
 Asp Lys Glu Ile Pro Asp His Asp Val Leu Leu Ala Gly Phe Pro Cys
 225 230 235 240
 Gln Pro Phe Ser Leu Ala Gly Val Ser Lys Lys Asn Ser Leu Gly Arg
 245 250 255
 Ala His Gly Phe Glu Cys Glu Ala Gln Gly Thr Leu Phe Phe Asp Val
 260 265 270
 Ala Arg Ile Ile Lys Ala Lys Lys Pro Ala Ile Phe Val Leu Glu Asn
 275 280 285
 Val Lys Asn Leu Lys Ser His Asp Lys Gly Lys Thr Phe Lys Val Ile
 290 295 300
 Met Glu Thr Leu Asp Glu Leu Gly Tyr Glu Val Ala Asp Ala Gly Val
 305 310 315 320
 Ser Gly Ser Asp Asp Pro Lys Ile Ile Asp Gly Lys Asn Phe Leu Pro
 325 330 335
 Gln His Arg Glu Arg Ile Val Leu Val Gly Phe Arg Arg Asp Leu Lys
 340 345 350
 Ile His Asp Gly Phe Thr Leu Arg Asn Ile His Lys Phe Tyr Pro Gln
 355 360 365
 Asn Arg Pro Thr Phe Gly Glu Leu Leu Asp Pro Ala Val Asp Ser Lys
 370 375 380
 Tyr Ile Leu Thr Pro Lys Leu Trp Glu Tyr Leu Tyr Asn Tyr Ala Lys
 385 390 395 400
 Lys His Ala Ala Lys Gly Asn Gly Phe Gly Phe Gly Leu Val Asp Pro
 405 410 415
 Thr Asn Val Asn Ser Val Ala Arg Thr Leu Ser Ala Arg Tyr His Lys
 420 425 430
 Asp Gly Ser Glu Ile Leu Ile Asp Arg Gly Trp Asp Lys Ala Lys Gly
 435 440 445
 Glu Leu Asp Phe Arg Asp Glu Glu Asn Gln Ser Arg Arg Pro Arg Arg
 450 455 460
 Leu Thr Pro His Glu Cys Ala Arg Leu Met Gly Phe Glu Lys Val Gly
 465 470 475 480
 Gly Lys Pro Phe Arg Ile Pro Val Ser Asp Thr Gln Ser Tyr Arg Gln
 485 490 495
 Phe Gly Asn Ser Val Val Val Pro Val Phe Glu Ala Val Ala Arg Leu
 500 505 510
 Leu Glu Pro Tyr Ile Gly Lys Ala Val Ala Val Arg Thr Asn Lys Ala
 515 520 525
 Lys Thr Lys
 530

<210> 6538

<211> 102

<212> PRT

<213> *Enterobacter cloacae*

<400> 6538

Lys Ala Val Gly Leu Ser Gly Val Gly Arg Ala Gly Leu Arg Ser Ile
 1 5 10 15
 Leu Phe Met Ala Val Leu Ser Val Val Arg Phe Asn Pro Lys Met Lys
 20 25 30
 His Tyr Tyr Gln Gly Leu Leu Glu Arg Gly Lys Val Lys Lys Val Ala
 35 40 45
 Leu Thr Ala Cys Ile Arg Lys Phe Ile Thr Ile Leu Asn Ala Met Val
 50 55 60
 Arg Asp Trp Lys Met Trp Ser Ala Glu Leu Gln Thr Pro Gly Val Ala
 65 70 75 80
 Lys Gln Met Phe Val Tyr Gly Ser Met Gly Ser Gln Lys Ser Gln Gln
 85 90 95
 Ile Ser Thr Thr Gly
 100

<210> 6539

<211> 461

<212> PRT

<213> *Enterobacter cloacae*

<400> 6539

Ala Thr Ile Asp Thr His Met Lys Ala Lys Ala Ile Leu Leu Ala Ser
 1 5 10 15
 Val Leu Leu Val Gly Cys Gln Ser Gln Asn Gly Ser Asn Val Gln Gln
 20 25 30
 His Ala Gln Ser Leu Ser Ala Ala Gly Gln Gly Glu Ala Gly Lys Phe
 35 40 45
 Thr Ser Gln Ala Arg Trp Leu Asp Asp Gly Thr Ser Phe Ala Gln Glu
 50 55 60
 Gln Asp Leu Trp Ala Ser Ile Gly Asp Glu Leu Lys Met Gly Ile Pro
 65 70 75 80
 Glu Asn Ser Arg Ile Arg Glu Gln Lys Gln Lys Tyr Leu Arg Asn Lys
 85 90 95
 Ser Tyr Leu His Asp Val Thr Leu Arg Ala Glu Pro Tyr Met Tyr Trp
 100 105 110
 Ile Ala Gly Gln Val Lys Lys Arg Asn Met Pro Met Glu Leu Val Leu
 115 120 125
 Leu Pro Ile Val Glu Ser Ala Phe Asp Pro His Ala Thr Ser Gly Ala
 130 135 140
 Asn Ala Ala Gly Ile Trp Gln Ile Ile Pro Ser Thr Gly Arg Asn Tyr
 145 150 155 160
 Gly Leu Lys Gln Thr Arg Asn Tyr Asp Ala Arg Arg Asp Val Val Ala
 165 170 175
 Ser Thr Thr Ala Ala Leu Asp Met Met Gln Arg Leu Asn Lys Met Phe
 180 185 190
 Asp Gly Asp Trp Leu Leu Thr Val Ala Ala Tyr Asn Ser Gly Glu Gly
 195 200 205
 Arg Val Leu Lys Ala Met Lys Ala Asn Lys Ala Arg Gly Lys Ser Thr
 210 215 220
 Asp Phe Trp Ser Leu Ser Leu Pro Gln Glu Thr Lys Ile Tyr Val Pro
 225 230 235 240
 Lys Met Leu Ala Leu Ser Asp Ile Leu Lys Asn Ser Lys Arg Tyr Gly
 245 250 255
 Val Gln Leu Pro Thr Pro Asp Glu Ser Arg Ala Leu Ala Arg Val Arg
 260 265 270
 Leu Ser Ser Pro Val Asp Ile Gln Gln Val Ala Asp Met Thr Gly Met
 275 280 285

```

Ser Val Ser Lys Leu Lys Thr Phe Asn Ala Gly Val Lys Gly Ser Thr
290          295          300
Leu Gly Ala Ser Gly Pro Arg Tyr Val Met Val Pro Gln Lys His Ala
305          310          315          320
Glu Gln Leu Arg Glu Ser Leu Ala Ser Gly Glu Ile Ala Ala Val Gln
325          330          335
Ser Thr Leu Ile Ala Asp Thr Ser Pro Val Ser Ser Arg Ser Tyr Lys
340          345          350
Val Arg Ser Gly Asp Thr Leu Ser Gly Ile Ala Ser Arg Leu Gly Val
355          360          365
Asn Ala Lys Asp Leu Gln Gln Trp Asn Asn Leu Arg Gly Ser Gly Leu
370          375          380
Lys Val Gly Gln Thr Leu Asn Val Gly Ala Gly Ser Ser Ala Gln Arg
385          390          395          400
Leu Ala Lys Asn Ser Asp Ser Ile Thr Tyr Arg Val Arg Lys Gly Asp
405          410          415
Ser Leu Ser Ser Ile Ala Lys Arg His Gly Val Asn Ile Lys Asp Val
420          425          430
Met Arg Trp Asn Asn Asp Thr Asp Asn Leu Gln Pro Gly Asp Gln Leu
435          440          445
Thr Leu Phe Val Lys Asn Ser Ala Thr Pro Asp Ser
450          455          460

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<210> 6540

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 6540

```

Ser Leu Arg Leu Ala Leu Ala Arg Pro Gly Ile Leu Glu Gly Thr Ser
1          5          10          15
Ser Arg Leu Ala Thr Ile Ala Ile Thr Pro Asn Ser Asp Thr Ala Arg
20          25          30
Lys Val Ser Arg Gln Pro Lys Cys Cys Pro Ile Asn Val Pro Asn Gly
35          40          45
Thr Pro Val Thr Ser Ala Thr Val Lys Pro Pro Asn Ile Ile Ala Met
50          55          60
Ala Asp Ala Ala Phe Ser Phe Gly Thr Arg Leu Val Ala Ile Val Glu
65          70          75          80
Pro Met Glu Lys Lys Thr Pro Cys Ala Arg Pro Val Ser Lys Arg Ala
85          90          95
Met Thr Ser Val Val
100

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<210> 6541

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6541

```

Asn Phe Ala Asp Asp Ala Ile Met Lys Ala Thr Ser Glu Glu Leu Thr
1          5          10          15
Ile Phe Val Ala Val Val Glu Ser Gly Ser Phe Ser Arg Ala Ala Glu
20          25          30
Gln Leu Gly Gln Ala Asn Ser Ala Ile Ser Arg Ser Val Lys Lys Leu
35          40          45
Glu Met Lys Leu Gly Val Ser Leu Leu Asn Arg Thr Thr Arg Gln Leu
50          55          60
Ser Leu Thr Glu Glu Gly Glu Arg Tyr Phe Arg Arg Val Gln Ser Val
65          70          75          80
Leu Gln Glu Met Ala Ala Ala Glu Thr Glu Ile Met Glu Ser Arg Ser

```

85 90 95
 Thr Pro Arg Gly Leu Leu Arg Ile Asp Ala Ala Thr Pro Val Val Leu
 100 105 110
 His Phe Leu Met Pro Leu Ile Lys Pro Phe Arg Glu Arg Tyr Pro Glu
 115 120 125
 Met Thr Leu Ser Leu Val Ser Ser Glu Thr Phe Ile Asn Leu Ile Glu
 130 135 140
 Arg Lys Val Asp Val Ala Ile Arg Ala Gly Thr Leu Thr Asp Ser Ser
 145 150 155 160
 Leu Arg Ala Arg Pro Leu Phe Thr Ser Tyr Arg Lys Met Ile Ala Ser
 165 170 175
 Pro Gln Tyr Ile Ala Glu His Gly Lys Pro Glu Thr Val Glu Glu Leu
 180 185 190
 Lys Gln His Leu Cys Leu Gly Phe Thr Glu Pro Val Ser Leu Asn Thr
 195 200 205
 Trp Pro Val Ala Cys His Asp Gly Gln Leu His Glu Ile Thr Cys Gly
 210 215 220
 Leu Ser Ser Asn Ser Gly Glu Thr Leu Lys Gln Leu Cys Leu Glu Gly
 225 230 235 240
 Asn Gly Ile Ala Cys Leu Ser Asp Tyr Met Ile Asp Lys Glu Ile Ala
 245 250 255
 Ala Gly Gln Leu Val Glu Leu Met Ala Asp Lys Arg Leu Pro Val Glu
 260 265 270
 Met Pro Phe Ser Ala Val Tyr Tyr Ser Asp Arg Ala Val Ser Thr Arg
 275 280 285
 Ile Arg Ala Phe Ile Asp Phe Leu Ser Glu His Ile Lys Thr Ala Pro
 290 295 300
 Gly Gly Ala Val
 305

<210> 6542

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 6542

Ile Leu Ile Ala Asp Pro Ala Ser Leu Val Val Lys Thr Leu Pro Val
 1 5 10 15
 Ile Leu Lys Asn Glu Arg Gln Ile Asn Leu Phe Leu Arg Thr Asp Asp
 20 25 30
 Val Asp Leu Ile Asn Lys Ile Asn Gln Glu Thr Asn Leu Leu Gln Pro
 35 40 45
 Glu Ala Arg Phe Ala Trp Leu Arg Ser Lys Lys Asp Asn Phe Arg
 50 55 60

<210> 6543

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6543

Arg Leu Arg Asn His Met Thr Ile Pro Ala Leu Gly Leu Gly Thr Phe
 1 5 10 15
 Arg Leu Lys Asp Asp Val Val Ile Ala Ser Val Lys Thr Ala Leu Glu
 20 25 30
 Leu Gly Tyr Arg Ala Ile Asp Thr Ala Gln Ile Tyr Asp Asn Glu Ala
 35 40 45
 Ala Val Gly Gln Ala Ile Glu Glu Ser Gly Val Pro Arg Asp Glu Leu
 50 55 60
 Phe Val Thr Thr Lys Ile Trp Ile Glu Asn Leu Ser Lys His Lys Leu
 65 70 75 80

```

Ile Pro Ser Leu Lys Glu Ser Leu Lys Lys Leu Arg Thr Asp Tyr Val
      85          90          95
Asp Leu Thr Leu Ile His Trp Pro Ser Pro Asp Asp Ala Val Ser Val
      100         105
Glu Glu Phe Met Gln Ala Leu Leu Glu Ala Lys Glu Gln Gly Leu Thr
      115         120         125
Arg Glu Ile Gly Ile Ser Asn Phe Thr Ile Pro Leu Met Glu Arg Ala
      130         135         140
Ile Ala Ala Val Gly Lys Glu Asn Ile Ala Thr Asn Gln Ile Glu Leu
      145         150         155         160
Ser Pro Tyr Leu Gln Asn Arg Lys Val Val Asp Trp Ala Lys Gln His
      165         170         175
Ser Ile His Ile Thr Ser Tyr Met Thr Leu Ala Tyr Gly Lys Ala Leu
      180         185         190
Lys Asp Glu Val Ile Ala Arg Ile Ala Glu Lys His Asn Ala Thr Ala
      195         200         205
Ala Gln Val Ile Leu Ala Trp Ala Met Gly Glu Gly Tyr Ala Val Ile
      210         215         220
Pro Ser Ser Thr Lys Arg Glu Asn Leu Ala Ser Asn Leu Leu Ala Arg
      225         230         235         240
Asp Leu Gln Leu Asp Asp Glu Asp Lys Asn Ala Ile Ala Ala Leu Glu
      245         250         255
Cys Asn Asp Arg Leu Val Ser Pro Glu Gly Leu Ala Pro Asp Trp Asp
      260         265         270

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<210> 6544

<211> 291

<212> PRT

<213> *Enterobacter cloacae*

<400> 6544

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Pro Lys Ile Pro Ile Thr Leu Glu Pro Val Arg Phe Pro Gly Trp Phe
1      5      10      15
Met Leu Gln Arg Ser Phe Pro Lys Val Arg Lys Asn Thr Tyr Ala Met
      20      25      30
Arg Tyr Val Ala Gly Met Pro Ala Glu Arg Ile Leu Pro Pro Gly Ser
      35      40      45
Phe Ala Ser Leu Gly Gln Ala Leu Pro Ala Gly Thr Pro Leu Ser Ser
      50      55      60
Asp Glu Lys Ile Arg Val Leu Val Trp Asn Ile Phe Lys Gln Gln Arg
      65      70      75      80
Ala Glu Trp Leu Ser Val Leu Gln Asn Phe Gly Lys Asp Ala His Leu
      85      90      95
Val Leu Leu Gln Glu Ala Gln Thr Thr Pro Glu Leu Val Arg Phe Ala
      100     105     110
Thr Thr Asn Tyr Leu Ala Ala Asp Gln Val Pro Ala Phe Val Leu Pro
      115     120     125
Gln His Pro Ser Gly Val Met Thr Leu Ser Ala Ala His Pro Val Tyr
      130     135     140
Cys Cys Pro Leu Arg Glu Arg Glu Pro Ile Leu Arg Leu Ala Lys Ser
      145     150     155     160
Ala Leu Val Thr Val Tyr Pro Leu Pro Asp Thr Arg Leu Leu Met Val
      165     170     175
Val Asn Ile His Ala Val Asn Phe Ser Leu Gly Val Asp Val Tyr Ser
      180     185     190
Lys Gln Leu Leu Pro Ile Gly Asp Gln Ile Ala His His Ser Gly Pro
      195     200     205
Ile Ile Met Ala Gly Asp Phe Asn Ala Trp Ser Arg Pro Arg Met Asn
      210     215     220

```

Ala Leu Tyr Arg Phe Ala Arg Glu Met Ser Leu Arg Glu Val Arg Phe
 225 230 235 240
 Asn Asp Asp Gln Arg Lys Lys Ala Phe Gly Arg Pro Leu Asp Phe Val
 245 250 255
 Phe Tyr Arg Gly Leu Ser Val His Asp Ala Ser Val Leu Val Thr Arg
 260 265 270
 Ala Ser Asp His Asn Pro Leu Leu Val Glu Phe Ser Pro Gly Lys Pro
 275 280 285
 Asp Lys
 290

<210> 6545

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 6545

Arg Asp Gly Val Phe Met Pro Leu Ala Leu Leu Ala Leu Thr Ile Ser
 1 5 10 15
 Ala Phe Ala Ile Gly Thr Thr Glu Phe Val Ile Val Gly Leu Val Pro
 20 25 30
 Thr Ile Ala Glu Gln Leu Ala Ile Ser Leu Pro Ser Ala Gly Leu Leu
 35 40 45
 Val Ser Ile Tyr Ala Leu Gly Val Ala Val Gly Ala Pro Val Leu Thr
 50 55 60
 Ala Leu Thr Gly Arg Phe Ala Arg Lys Lys Leu Leu Val Ala Leu Met
 65 70 75 80
 Val Leu Phe Thr Ala Gly Asn Ile Leu Ala Trp Gln Ala Pro Asp Tyr
 85 90 95
 Thr Thr Leu Val Ile Ala Arg Leu Leu Thr Gly Leu Ala His Gly Val
 100 105 110
 Phe Phe Ser Ile Gly Ser Thr Ile Ala Thr Ser Leu Val Pro Lys Glu
 115 120 125
 Lys Ala Ala Ser Ala Ile Ala Ile Met Phe Gly Gly Leu Thr Val Ala
 130 135 140
 Leu Val Thr Gly Val Pro Leu Gly Thr Phe Ile Gly Gln His Phe Gly
 145 150 155 160
 Trp Arg Glu Thr Phe Leu Ala Val Ser Leu Leu Gly Val Ile Ala Met
 165 170 175
 Val Ala Ser Leu Leu Val Pro Ser Ser Ile Pro Gly Arg Ala Ser
 180 185 190
 Ala Ser Leu Ser Asp Gln Val Lys Val Leu Thr His Pro Arg Leu Leu
 195 200 205
 Leu Ile Tyr Ala Val Thr Ala Leu Gly Tyr Gly Gly Val Phe Thr Ala
 210 215 220
 Phe Thr Phe Leu Ala Pro Met Met Gln Glu Leu Ala Gly Phe Ser Pro
 225 230 235 240
 Gly Ala Val Ser Trp Ile Leu Leu Gly Tyr Gly Ile Ser Val Ala Ile
 245 250 255
 Gly Asn Ile Trp Gly Gly Lys Leu Ala Asp Lys His Gly Ala Val Pro
 260 265 270
 Ala Leu Lys Phe Ile Phe Ala Ala Leu Val Val Leu Leu Met Ile Phe
 275 280 285
 Gln Phe Thr Ala Ser Ile Gln Tyr Ala Ala Leu Val Thr Val Leu Val
 290 295 300
 Met Gly Ile Phe Ala Phe Gly Asn Val Pro Gly Leu Gln Val Tyr Val
 305 310 315 320
 Val Gln Lys Ala Glu Arg Tyr Thr Pro Asn Ala Val Asp Val Ala Ser
 325 330 335
 Gly Leu Asn Ile Ala Ala Phe Asn Ile Gly Ile Ala Leu Gly Ser Val
 340 345 350

Ile Gly Gly Gln Thr Val Glu His Val Gly Leu Thr Gln Thr Pro Trp
 355 360 365
 Ile Gly Ala Val Ile Val Leu Val Ala Phe Leu Leu Ile Gly Leu Ser
 370 375 380
 Gly Arg Leu Asp Lys Pro Ala Arg Val Ala Leu Gly
 385 390 395

<210> 6546

<211> 262

<212> PRT

<213> *Enterobacter cloacae*

<400> 6546

Lys Asp Ser Asn Met Thr Thr Thr His Ser His His Asp Asn Val Asp
 1 5 10 15
 Lys Gln Phe Gly Ser Gln Ala Ser Ala Tyr Leu Ser Ser Ala Val His
 20 25 30
 Ala Ser Gly Arg Asp Leu Val Arg Leu Gly Glu Arg Leu Ala Ala Phe
 35 40 45
 Pro Asp Ala His Val Leu Asp Leu Gly Cys Gly Ala Gly His Ala Ser
 50 55 60
 Phe Thr Ala Ala Glu Gln Val Ala Gln Val Thr Ala Tyr Asp Leu Ser
 65 70 75 80
 Ser Gln Met Leu Asp Val Val Ala Glu Ala Ala Lys Ala Lys Gly Leu
 85 90 95
 Asn Asn Val Thr Thr Arg Gln Gly Tyr Ala Glu Ser Leu Pro Phe Glu
 100 105 110
 Asp Ala Ser Phe Glu Val Val Ile Ser Arg Tyr Ser Ala His His Trp
 115 120 125
 His Asp Val Gly Gln Ala Leu Arg Glu Val Lys Arg Val Leu Lys Pro
 130 135 140
 Gly Gly Ile Phe Ile Ile Met Asp Val Met Ser Pro Gly His Pro Val
 145 150 155 160
 Arg Asn Ile Trp Leu Gln Thr Val Glu Ala Leu Arg Asp Thr Ser His
 165 170 175
 Val Gln Asn Tyr Ser Ser Gly Glu Trp Leu Thr Phe Ile Thr Glu Ala
 180 185 190
 Gly Leu Ile Ser Arg Ser Leu Ile Thr Asp Arg Leu Pro Leu Glu Phe
 195 200 205
 Ala Ser Trp Ile Ala Arg Met Arg Thr Pro Glu Ala Leu Thr Gln Ala
 210 215 220
 Ile Arg Leu Tyr Gln Glu Ser Ala Ser Ala Asp Val Lys Ala Tyr Phe
 225 230 235 240
 Glu Leu His Asp Asp Gly Ser Phe Thr Ser Asp Thr Ile Met Ala Glu
 245 250 255
 Ala Gln Lys Ala Gly
 260

<210> 6547

<211> 337

<212> PRT

<213> *Enterobacter cloacae*

<400> 6547

Pro Gly Cys Arg Leu Ser Lys Glu Ser Met Met Ser Ser Val Thr Thr
 1 5 10 15
 Ser Gly Ala Pro Lys Ser Ala Phe Ser Phe Gly Arg Ile Trp Asp Gln
 20 25 30
 Tyr Gly Met Leu Val Val Phe Ala Ala Leu Phe Val Ala Cys Ala Ile
 35 40 45
 Phe Val Pro Asn Phe Ala Thr Phe Ile Asn Met Lys Gly Leu Gly Leu

50		55		60
Ala Ile Ser Met Ser	Gly Met Val Ala Cys Gly Met Leu Phe Cys Leu			
65	70	75	80	
Ala Ser Gly Asp Phe	Leu Ser Val Ala Ser Val Ile Ala Cys Ala			
85	90	95		
Gly Val Thr Thr Ala Val Val	Ile Asn Met Thr Glu Ser Leu Trp Ile			
100	105	110		
Gly Val Leu Ala Gly Leu Leu	Leu Gly Val Leu Ser Gly Leu Val Asn			
115	120	125		
Gly Phe Val Ile Ala Arg Leu	Lys Ile Asn Ala Leu Ile Thr Thr Leu			
130	135	140		
Ala Thr Met Gln Ile Val Arg	Gly Leu Ala Tyr Ile Ile Ser Asp Gly			
145	150	155	160	
Lys Ala Val Gly Ile Glu Asp	Glu Arg Phe Phe Thr Leu Gly Tyr Ala			
165	170	175		
Asn Trp Leu Gly Leu Pro Ala	Pro Ile Trp Leu Thr Val Gly Cys Leu			
180	185	190		
Ile Leu Phe Gly Phe Leu Leu	Asn Arg Thr Thr Phe Gly Arg Asn Thr			
195	200	205		
Leu Ala Ile Gly Gly Asn Glu	Glu Ala Ala Arg Leu Ala Gly Val Pro			
210	215	220		
Val Val Arg Thr Lys Ile Ile	Ile Phe Val Leu Ser Gly Leu Val Ser			
225	230	235	240	
Ala Ala Ala Gly Ile Ile Leu	Ala Ser Arg Met Thr Ser Gly Gln Pro			
245	250	255		
Met Thr Ser Ile Gly Tyr Glu	Leu Ile Val Ile Ser Ala Cys Val Leu			
260	265	270		
Gly Gly Val Ser Leu Lys Gly	Gly Ile Gly Lys Ile Ser Tyr Val Val			
275	280	285		
Ala Gly Ile Leu Ile Leu Gly	Thr Val Glu Asn Ala Met Asn Leu Leu			
290	295	300		
Asn Ile Ser Pro Phe Ser Gln	Tyr Val Val Arg Gly Leu Ile Leu Leu			
305	310	315	320	
Ala Ala Val Ile Phe Asp Arg	Tyr Lys Gln Lys Ala Lys Arg Thr Val			
325	330	335		

<210> 6548

<211> 305

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (305)

<400> 6548

Pro Ala Gln Leu Leu Thr Ile Val Asp	Pro Leu Thr Gly Pro Pro Val
1	5 10 15
Leu Leu Thr Gly Arg Leu Leu Asn Gly	Glu His Arg His Thr Val Tyr
20	25 30
Thr Tyr Met Ala Val Leu Phe Thr Val	Arg Arg Ile Arg Val Ala Asp
35	40 45
Leu Leu Thr Ala Pro Pro Val Leu Pro	Gly Lys Phe Ala Phe Phe Phe
50	55 60
Asp Leu Asp Gly Thr Leu Ala Gly Ile	Glu Pro His Pro Asp Asp Val
65	70 75 80
Val Val Pro Asp Thr Val Leu Glu Asn	Leu Gln Gln Leu Ser Arg Gln
85	90 95
Asn Glu Gly Ala Leu Ala Leu Ile Ser	Gly Arg Ser Met Ala Glu Leu

100 105 110
 Asp Val Leu Ala Ser Pro Tyr His Phe Pro Leu Ala Gly Val His Gly
 115 120 125
 Ala Glu Arg Arg Asp Ile His Asp Gln Leu His Ile Val Ser Leu Pro
 130 135 140
 Asp Thr Leu Ile Gln Thr Leu His Ala Gln Leu Ser Ser Ala Leu Glu
 145 150 155 160
 Met Leu Pro Gly Thr Glu Leu Glu Ala Lys Gly Met Ala Phe Ala Leu
 165 170 175
 His Tyr Arg Gln Ala Pro His His Glu Ala Ala Ile Phe Ser Ile Ala
 180 185 190
 Arg Ser Val Ala Glu Ala His Pro Glu Leu Ala Leu Gln Pro Gly Lys
 195 200 205
 Cys Val Val Glu Ile Lys Pro Ala Gly Ile Asn Lys Gly Ala Ala Ile
 210 215 220
 Ala Ala Phe Met Ala Glu Ala Pro Phe Lys Gly Arg Thr Pro Val Phe
 225 230 235 240
 Phe Gly Asp Asp Leu Thr Asp Glu Ala Gly Phe Arg Val Val Asn Gln
 245 250 255
 Ala Gln Gly Met Ser Val Lys Val Gly Ser Gly Glu Thr Ile Ala Gly
 260 265 270
 Trp Arg Leu Glu Asn Val Ala Ser Val Trp Gln Trp Ile Ser Asp Val
 275 280 285
 Ala Asn Gln Gln Gln Leu Phe Thr Thr Asp Cys Arg Pro Ala His Met
 290 295 300
 Xaa
 305

<210> 6549
 <211> 140
 <212> PRT
 <213> Enterobacter cloacae

<400> 6549
 Lys Ala Cys Gly Gln Thr Thr Ala Gln Arg Leu Lys Thr Ser His Arg
 1 5 10 15
 Val Arg Cys Ser Asp Lys Lys Thr Cys Phe Gly Arg Phe Phe Tyr Val
 20 25 30
 Cys Gly Arg Arg Glu Gly Asp Gly Arg Ala Ser Val Leu Leu Trp
 35 40 45
 Arg Pro Leu Asn Lys Glu Asn Pro Met Ser Gln Asn Leu Ser Ala Asp
 50 55 60
 Gln Glu Leu Val Ser Asp Val Val Ala Cys Gln Leu Val Ile Lys Gln
 65 70 75 80
 Ile Leu Asp Val Ile Asp Val Ile Ala Pro Val Glu Val Arg Glu Lys
 85 90 95
 Met Ser Thr Gln Leu Lys Asn Ile Asp Phe Thr Asn His Pro Ala Ala
 100 105 110
 Ala Asp Pro Val Thr Leu Arg Ala Ile Gln Lys Ala Ile Ala Leu Ile
 115 120 125
 Glu Leu Arg Phe Thr Pro Gln Gly Glu Ser His
 130 135 140

<210> 6550
 <211> 203
 <212> PRT
 <213> Enterobacter cloacae

<400> 6550
 Arg Glu Lys Met Lys Arg Cys Phe Thr Leu Phe His Ser Leu Arg Phe
 1 5 10 15

Met Met Ala Asn Val Ala Val Leu Leu Ala Pro Gly Phe Glu Glu Ala
 20 25 30
 Glu Ala Ile Ile Thr Ile Asp Ile Leu Arg Arg Leu Gln Ile Glu Val
 35 40 45
 Glu Thr Leu Ala Cys Ala Glu Ser Arg Ala Val Val Ser Tyr His Asn
 50 55 60
 Ile Pro Met Val Ala Asp Ser Thr Leu Thr Glu Arg Ile Asn Arg Leu
 65 70 75 80
 Tyr Asp Ala Val Val Leu Pro Gly Gly Pro Gln Gly Ser Val Asn Leu
 85 90 95
 Ala Ala Asn Gln Glu Val Ile Arg Phe Val Ser Ala His Asp Glu His
 100 105 110
 Gly Lys Leu Ile Cys Pro Ile Cys Ser Ala Ala Ala Arg Val Leu Gly
 115 120 125
 Gly Asn Gly Leu Leu Lys Gly Arg Arg Tyr Val Cys Ser Gly Asp Leu
 130 135 140
 Trp Gln Ser Val Asp Asp Gly Val Tyr Val Asp Ala Pro Val Val Glu
 145 150 155 160
 Asp Asn Asn Leu Ile Ser Gly Lys Gly Leu Gly His Ala Phe Asp Phe
 165 170 175
 Ala Leu Thr Leu Ser Ala Arg Leu Leu Gly Val Asp Ser Pro Val Arg
 180 185 190
 Asp His Ala Glu His Ile Tyr Tyr Arg Trp
 195 200

<210> 6551

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 6551

Gly Ala Arg Arg Thr His Tyr Arg Asn His Gly Val Val Met Gln Gln
 1 5 10 15
 Ser Asp Pro Tyr Leu Ser Phe Arg Gly Ile Gly Lys Thr Phe Pro Gly
 20 25 30
 Val Asn Ala Leu Thr Asp Ile Ser Phe Asp Cys Tyr Ala Gly Gln Val
 35 40 45
 His Ala Leu Met Gly Glu Asn Gly Ala Gly Lys Ser Thr Leu Leu Lys
 50 55 60
 Ile Leu Ser Gly Asn Tyr Thr Pro Thr Thr Gly Thr Leu Ala Ile Arg
 65 70 75 80
 Gly Glu Glu Val Ala Phe Ala Asp Thr Thr Ala Ala Leu Asn Ala Gly
 85 90 95
 Val Ala Ile Ile Tyr Gln Glu Leu His Leu Ile Pro Glu Met Thr Val
 100 105 110
 Ala Glu Asn Ile Tyr Leu Gly Gln Leu Pro His Lys Ser Gly Val Val
 115 120 125
 Asn Arg Ser Leu Leu Asn Tyr Glu Ala Gly Leu Gln Leu Lys His Leu
 130 135 140
 Gly Leu Asp Val Asp Pro Gln Thr Pro Leu Lys Tyr Leu Ser Ile Gly
 145 150 155 160
 Gln Trp Gln Met Val Glu Ile Ala Lys Ala Leu Ala Arg Asn Ala Lys
 165 170 175
 Ile Ile Ala Phe Asp Glu Pro Thr Ser Ser Leu Ser Ala Arg Glu Ile
 180 185 190
 Glu Asn Leu Phe Arg Val Ile Arg Glu Leu Arg Lys Glu Gly Arg Ile
 195 200 205
 Ile Leu Tyr Val Ser His Arg Met Glu Glu Ile Phe Ala Leu Ser Asp
 210 215 220
 Ala Ile Thr Val Phe Lys Asp Gly Arg Tyr Val Arg Thr Phe Thr Asp
 225 230 235 240

Met Gln Gln Val Asn His Asp Gln Leu Val Gln Ala Met Val Gly Arg
 245 250 255
 Asp Leu Gly Asp Ile Tyr His Trp Lys Pro Arg Glu Tyr Gly Pro Glu
 260 265 270
 Arg Leu Arg Leu Asp Asn Val Lys Ala Pro Gly Val Arg Thr Pro Ile
 275 280 285
 Ser Leu Ser Val Arg Ser Gly Glu Ile Val Gly Leu Phe Gly Leu Val
 290 295 300
 Gly Ala Gly Arg Ser Glu Leu Met Lys Gly Leu Phe Gly Gly Thr Arg
 305 310 315 320
 Ile Thr Gln Gly Gln Val Phe Val Asp Gly Lys Lys Val Asp Ile Gln
 325 330 335
 Lys Pro Ala Gln Ala Ile Asn Ala Gly Ile Met Leu Cys Pro Glu Asp
 340 345 350
 Arg Lys Ala Glu Gly Ile Ile Pro Val His Ser Val Arg Asp Asn Ile
 355 360 365
 Asn Ile Ser Ala Arg Arg Lys Phe Ile Arg Ala Gly Cys Leu Ile Asn
 370 375 380
 Asp Gly Trp Glu Ala Ser Asn Ala Asp His His Ile Arg Ser Leu Asn
 385 390 395 400
 Ile Lys Thr Pro Gly Ala Glu Gln Leu Ile Met Asn Leu Ser Gly Gly
 405 410 415
 Asn Gln Gln Lys Ala Ile Leu Gly Arg Trp Leu Ser Glu Asp Met Lys
 420 425 430
 Val Ile Leu Leu Asp Glu Pro Thr Arg Gly Ile Asp Val Gly Ala Lys
 435 440 445
 His Glu Ile Tyr Asn Val Ile Tyr Glu Leu Ala Lys Arg Gly Val Ala
 450 455 460
 Val Leu Phe Ala Ser Ser Asp Leu Pro Glu Val Leu Gly Val Ala Asp
 465 470 475 480
 Arg Ile Val Val Met Arg Glu Gly Glu Ile Ala Gly Glu Leu Leu His
 485 490 495
 Glu Gln Ala Asn Glu Gln Gln Ala Leu Ser Leu Ala Met Pro Lys Val
 500 505 510
 Ser Gln Ala Val Ala
 515

<210> 6552

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 6552

Val Val Arg His Tyr Ser Leu Gln Ile Arg Met Leu Lys Leu Glu Phe
 1 5 10 15
 Thr Met His Lys Phe Thr Lys Ala Leu Ala Ala Ile Gly Leu Ala Ala
 20 25 30
 Val Met Ser Gln Ser Ala Ile Ala Glu Asn Leu Lys Leu Gly Phe Leu
 35 40 45
 Val Lys Gln Pro Glu Glu Pro Trp Phe Gln Thr Glu Trp Lys Phe Ala
 50 55 60
 Asp Lys Ala Gly Lys Asp Leu Gly Phe Glu Val Ile Lys Ile Ala Val
 65 70 75 80
 Pro Asp Gly Glu Lys Thr Leu Asn Ala Ile Asp Ser Leu Ala Ala Ser
 85 90 95
 Gly Ala Lys Gly Phe Val Ile Cys Thr Pro Asp Pro Lys Leu Gly Ser
 100 105 110
 Ala Ile Ala Ala Lys Ala Arg Gly Tyr Asp Met Lys Val Ile Ala Val
 115 120 125
 Asp Asp Gln Phe Val Asn Ala Lys Gly Lys Pro Met Asp Thr Val Pro
 130 135 140

Leu Val Met Met Ala Ala Thr Lys Ile Gly Glu Arg Gln Gly Gln Glu
 145 150 155 160
 Leu Tyr Lys Glu Met Gln Lys Arg Gly Trp Asp Val Lys Glu Thr Ala
 165 170 175
 Val Met Ala Ile Thr Ala Asp Glu Leu Asp Thr Ala Arg Arg Arg Thr
 180 185 190
 Thr Gly Ser Met Asp Ala Leu Lys Ala Ala Gly Phe Pro Glu Lys Gln
 195 200 205
 Ile Tyr Lys Val Pro Thr Lys Ser Asn Asp Ile Pro Gly Ala Phe Asp
 210 215 220
 Ala Ala Asn Ser Met Leu Val Gln His Pro Glu Val Lys His Trp Leu
 225 230 235 240
 Val Val Gly Met Asn Asp Asn Thr Val Leu Gly Gly Val Arg Ala Thr
 245 250 255
 Glu Gly Gln Gly Phe Lys Ala Pro Asp Val Ile Gly Ile Gly Ile Asn
 260 265 270
 Gly Val Asp Ala Val Ser Glu Leu Ser Lys Ala Gln Ala Thr Gly Phe
 275 280 285
 Tyr Gly Ser Leu Leu Pro Ser Pro Asp Val His Gly Tyr Lys Ser Ser
 290 295 300
 Glu Met Leu Tyr Asn Trp Val Thr Lys Gly Ala Glu Pro Pro Lys Phe
 305 310 315 320
 Thr Glu Val Thr His Val Val Leu Ile Thr Arg Asp Asn Phe Lys Glu
 325 330 335
 Glu Leu Ala Lys Gly Leu Gly Gly Lys
 340 345

<210> 6553

<211> 180

<212> PRT

<213> *Enterobacter cloacae*

<400> 6553

Arg Thr Ser Ser Pro Thr Val Asn Lys Asp Met Arg Met Thr Thr His
 1 5 10 15
 Thr Met Met Gln Lys Leu Asn Ala Gln Met Asn Leu Glu Phe Tyr Ala
 20 25 30
 Ser Asn Leu His Leu His Leu Ser Ala Trp Cys Ser Arg Lys Ser Leu
 35 40 45
 Asn Gly Thr Ala Thr Phe Phe Arg Thr Gln Ala Gln Ser Asn Val Thr
 50 55 60
 His Met Met Arg Val Phe Asn Phe Leu Lys Ala Val Gly Ala Asn Pro
 65 70 75 80
 Thr Val Lys Glu Leu Glu Thr Ile Glu Asp Asn Tyr Thr Ser Leu Glu
 85 90 95
 Glu Leu Phe Gln Lys Thr Leu Glu Glu Tyr Glu Gln Arg Cys Ala Lys
 100 105 110
 Leu Ser Lys Leu Ala Asp Glu Ala Lys Ala Gln Gln Asp Ile Ile Thr
 115 120 125
 Leu Thr Phe Leu Arg Asp Met Asp Arg Glu Gln Gln Gln Asp Gly Met
 130 135 140
 Leu Leu Lys Thr Leu Ala Asp Glu Ile Arg Asn Ala Lys Arg Ala Gly
 145 150 155 160
 Ile Cys Leu Glu Gln Thr Asp Arg His Leu Leu Asp Ile Ala Thr Val
 165 170 175
 Gln His His

180

<210> 6554

<211> 452

<212> PRT

<213> *Enterobacter cloacae*

<400> 6554

Arg Gly Ser Ile Met Ile Thr Ile Glu Phe Ile Val Ile Ile Leu Cys
 1 5 10 15
 Leu Leu Ile Gly Thr Arg Phe Gly Gly Met Gly Leu Gly Leu Ile Ser
 20 25 30
 Gly Ile Gly Leu Phe Ile Leu Ser Phe Val Phe Gly Leu Gln Pro Gly
 35 40 45
 Lys Pro Pro Val Asp Val Met Leu Thr Ile Leu Ala Val Ile Gly Cys
 50 55 60
 Ala Ala Thr Leu Gln Thr Ala Gly Gly Leu Asn Val Met Met Gln Phe
 65 70 75 80
 Ala Glu Arg Leu Leu Arg Lys His Pro Gln His Ile Thr Leu Leu Ala
 85 90 95
 Pro Phe Thr Thr Trp Met Leu Thr Phe Leu Cys Gly Thr Gly His Val
 100 105 110
 Val Tyr Thr Met Phe Pro Ile Ile Ala Asp Ile Ala Leu Lys Lys Gly
 115 120 125
 Ile Arg Pro Glu Arg Pro Met Ala Val Ala Ser Val Ala Ser Gln Met
 130 135 140
 Ala Ile Thr Ala Ser Pro Val Ser Val Ala Val Ser Leu Val Ser
 145 150 155 160
 Ile Leu Gly Ala Gln His Gly Ile Gly His Ala Trp Gly Ile Leu Glu
 165 170 175
 Ile Leu Ala Val Ser Val Pro Ala Ser Leu Ser Gly Val Ala Ile Ala
 180 185 190
 Ala Leu Trp Ser Leu Arg Arg Gly Lys Asn Leu Ala Asp Asp Thr Glu
 195 200 205
 Phe Gln Glu Lys Leu Lys Asp Pro Lys Gln Arg Glu Phe Ile Tyr Gly
 210 215 220
 Gly Thr Glu Thr Leu Met Asp Gln Arg Phe Pro Lys Gln Ala Tyr Trp
 225 230 235 240
 Ser Thr Trp Ile Phe Phe Ala Gly Ile Ala Val Val Val Leu Leu Gly
 245 250 255
 Ala Leu Pro Glu Leu Arg Pro Ala Phe Glu Ile Lys Gly Lys Met Thr
 260 265 270
 Ala Leu Ser Met Asn Leu Val Ile Gln Met Met Met Leu Ile Ala Gly
 275 280 285
 Ala Ile Met Leu Met Thr Cys Lys Val Asn Ala Ser Ala Ile Ser Asn
 290 295 300
 Gly Ala Val Phe Lys Ala Gly Met Val Ala Ile Phe Ser Val Phe Gly
 305 310 315 320
 Val Ala Trp Met Ser Asp Thr Phe Phe Gln Ala His Leu Asp Glu Leu
 325 330 335
 Lys Met Ala Leu Glu Gly Val Val Lys Ser His Pro Trp Thr Tyr Ala
 340 345 350
 Ile Val Leu Phe Leu Val Ser Lys Leu Val Asn Ser Gln Ala Ala Ala
 355 360 365
 Leu Thr Ala Val Ala Pro Met Gly Leu Met Leu Gly Ile Asp Pro Lys
 370 375 380
 Met Leu Val Ala Phe Phe Pro Ala Ser Tyr Gly Tyr Phe Val Leu Pro
 385 390 395 400
 Thr Tyr Pro Ser Asp Leu Ala Cys Ile Gly Phe Asp Arg Ser Gly Thr
 405 410 415
 Thr Arg Ile Gly Lys Phe Ile Ile Asn His Ser Phe Ile Leu Pro Gly
 420 425 430
 Leu Ile Gly Val Ser Cys Ala Cys Val Val Ser Tyr Leu Leu Val Gln
 435 440 445
 Thr Phe Phe
 450

<210> 6555
 <211> 422
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6555
 Ala Gly Arg Lys Arg Met Ser Glu Asn Val Ser Gly Lys Glu Ser Arg
 1 5 10 15
 Gly Leu Ser Pro Ala Ala Leu Leu Val Ala Gly Ala Phe Phe Met Glu
 20 25 30
 Phe Leu Asp Gly Thr Val Ile Ala Thr Ala Leu Pro Asp Met Ala Lys
 35 40 45
 Ser Phe Gly Val Gln Ala Val Asp Leu Asn Ile Gly Ile Ser Ala Tyr
 50 55 60
 Leu Ile Thr Leu Ala Val Leu Ile Pro Ala Ser Gly Trp Ile Ala Asp
 65 70 75 80
 Arg Phe Gly Ala Arg Lys Val Phe Ala Leu Ala Leu Ala Ile Phe Thr
 85 90 95
 Leu Ala Ser Val Phe Cys Gly Leu Ser Thr Thr Leu Asp Gln Phe Val
 100 105 110
 Ala Met Arg Val Leu Gln Gly Met Gly Gly Ala Leu Met Val Pro Val
 115 120 125
 Gly Arg Leu Ala Val Leu Arg Thr Thr Pro Lys His Gln Leu Ile Thr
 130 135 140
 Ala Ile Ala Thr Leu Thr Trp Pro Ala Leu Val Ala Pro Ile Ile Gly
 145 150 155 160
 Pro Pro Leu Gly Gly Phe Ile Thr Ser Tyr Ala Asp Trp Arg Trp Ile
 165 170 175
 Phe Phe Ile Asn Val Pro Leu Gly Ile Ile Ala Ile Leu Leu Ala Leu
 180 185 190
 Arg Ile Ile Pro Asp Leu His Glu Asp Thr Arg Arg Pro Phe Asp Leu
 195 200 205
 Pro Gly Phe Val Val Thr Thr Leu Ala Met Val Ser Leu Val Tyr Ala
 210 215 220
 Met Glu Leu Met Gly Ala Glu Pro Leu Arg Thr Gly Leu Thr Ala Thr
 225 230 235 240
 Leu Phe Ile Val Gly Ile Val Ala Leu Ser Leu Ala Leu Arg His Phe
 245 250 255
 Lys Arg Thr Thr Trp Pro Met Ile Arg Leu Asp Ala Met Gln Val Pro
 260 265 270
 Thr Phe Arg Val Thr Leu Tyr Gly Gly Ser Leu Phe Arg Ala Ser Ile
 275 280 285
 Ser Ala Val Pro Phe Leu Leu Pro Leu Met Phe Gln Val Gly Phe Gly
 290 295 300
 Met Asp Ala Phe His Ser Gly Leu Leu Val Leu Ala Val Phe Val Gly
 305 310 315 320
 Asn Leu Thr Ile Lys Pro Ala Thr Thr Pro Leu Ile Arg Ser Leu Gly
 325 330 335
 Phe Lys Arg Leu Leu Leu Ile Asn Gly Ala Leu Asn Val Leu Ala Leu
 340 345 350
 Leu Ala Cys Ala Phe Leu Thr Pro Gln Thr Pro Ala Trp Leu Val Met
 355 360 365
 Leu Ile Leu Tyr Leu Gly Gly Val Phe Arg Ser Ile Gln Phe Thr Ala
 370 375 380
 Ile Ser Thr Leu Ala Phe Ala Asp Val Pro Ser Val Gln Met Cys Tyr
 385 390 395 400
 Ala Asn Ile Leu Phe Ser Thr Ala Thr Gln Arg Leu Asp His Gly Ala
 405 410 415
 Gly Ala Ser Ala Cys Gly
 420

<210> 6556
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 6556
 Leu Thr Leu Arg Cys Glu Ala Glu Phe Asn Gln Arg Asn Arg Phe Leu
 1 5 10 15
 Asp Arg Ala Glu Arg Asn Arg Val Arg Ser Arg Met Val Gly Glu
 20 25 30
 Ile Asp Val Phe Gln Leu Gly Arg His Leu Phe Ala Tyr Leu Asn Arg
 35 40 45
 Arg Asp Asn Val Asn His Ile Lys Asp Leu Phe Asp Asn Gln Leu Ala
 50 55 60
 Gly Asp Asp Val Arg Tyr Gln Phe Leu Ile Gly Ala Gln Val Leu
 65 70 75 80

<210> 6557
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 6557
 Ser Pro Ser Arg Gly Glu Lys Pro Leu Asp Ile Ser Ser Thr His Tyr
 1 5 10 15
 Leu Asp Ile Asn His Ala Asp Ile Val Ala Arg Ile Asp Leu Thr Glu
 20 25 30
 Trp Glu Thr Asn Pro Glu Ser Thr Arg Tyr Leu Thr Phe Leu Lys Gly
 35 40 45
 Arg Val Gly Arg Lys Val Ala Asp Phe Phe Met Asp Phe Leu Gly Ala
 50 55 60
 Ser Glu Gly Leu Asn Ala Lys Ala Gln Asn Lys Gly Leu Leu Gln Ala
 65 70 75 80
 Val Asp Asp Phe Thr Ala Glu Ala Gln Leu Asp Lys Ser Glu Arg Gln
 85 90 95
 Asn Val Arg Gln Gln Val Tyr Ser Tyr Cys Asn Glu Gln Leu Gln Ala
 100 105 110
 Gly Glu Glu Ile Glu Leu Glu Ser Leu Ser Lys Glu Leu Ala Gly Val
 115 120 125
 Ser Glu Val Ser Phe Gln Glu Phe Thr Ala Glu Lys Gly Tyr Glu Leu
 130 135 140
 Glu Glu Ser Phe Pro Ala Asp Arg Ser Thr Leu Arg Gln Leu Thr Lys
 145 150 155 160
 Phe Ala Gly Ser Gly Gly Gly Leu Thr Ile Asn Phe Asp Ala Met Leu
 165 170 175
 Leu Gly Glu Arg Ile Phe Trp Asp Pro Ala Thr Asp Thr Leu Thr Ile
 180 185 190
 Lys Gly Thr Pro Pro Asn Leu Arg Asp Gln Leu Gln Arg Arg Thr Ser
 195 200 205
 Gly Gly Lys
 210

<210> 6558
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

<400> 6558
 Lys Asp Phe Met Arg Leu Asp Lys Phe Ile Ala Gln Gln Leu Gly Val
 1 5 10 15

Ser Arg Ala Ile Ala Gly Arg Glu Ile Arg Ala Ser Arg Val Thr Val
 20 25 30
 Asp Gly Asp Ile Val Lys Asp Ser Ala Phe Lys Leu Gln Pro Glu His
 35 40 45
 Gln Val Glu Tyr Asp Gly Asn Pro Leu Thr Gln Gln Asn Gly Pro Arg
 50 55 60
 Tyr Phe Met Leu Asn Lys Pro Glu Gly Tyr Val Cys Ser Thr Asp Asp
 65 70 75 80
 Pro Asp His Pro Thr Val Leu Tyr Phe Leu Asp Glu Pro Val Ala His
 85 90 95
 Lys Leu His Ala Ala Gly Arg Leu Asp Ile Asp Thr Thr Gly Leu Val
 100 105 110
 Leu Met Thr Asp Asp Gly Gln Trp Ser His Arg Ile Thr Ser Pro Arg
 115 120 125
 His His Cys Glu Lys Thr Tyr Arg Val Thr Leu Glu Ser Pro Val Ser
 130 135 140
 Asp Asp Thr Ala Glu Gln Phe Ala Lys Gly Val Gln Leu His Asn Glu
 145 150 155 160
 Lys Asp Leu Thr Lys Pro Ala Val Leu Glu Ile Ile Thr Pro Thr Asp
 165 170 175
 Val Arg Leu Thr Ile Ser Glu Gly Arg Tyr His Gln Val Lys Arg Met
 180 185 190
 Phe Ala Ala Val Gly Asn His Val Val Gly Leu His Arg Glu Arg Ile
 195 200 205
 Gly Ala Ile Glu Leu Asp Pro Asp Leu Ala Pro Gly Glu Tyr Arg Pro
 210 215 220
 Leu Thr Glu Glu Glu Ile Ala Ser Val Gly Leu Pro Ser Arg
 225 230 235

<210> 6559

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 6559

Ile Gln Glu Asn Ser Val Thr Thr Arg Pro His Ser Ser Phe Lys Ile
 1 5 10 15
 Val Phe Ile Leu Gly Leu Leu Ala Met Leu Met Pro Leu Ser Ile Asp
 20 25 30
 Met Tyr Leu Pro Ala Leu Pro Val Ile Ser Ala Gln Phe Gly Val Pro
 35 40 45
 Ala Gly Ser Ala Gln Met Thr Leu Ser Thr Tyr Ile Leu Gly Phe Ala
 50 55 60
 Leu Gly Gln Leu Phe Tyr Gly Pro Met Ala Asp Ser Leu Gly Arg Lys
 65 70 75 80
 Pro Val Ile Leu Gly Gly Thr Leu Ile Phe Ala Ala Ala Val Ala
 85 90 95
 Cys Ala Leu Ala Gln Ser Ile Asp Gln Leu Ile Val Met Arg Phe Phe
 100 105 110
 His Gly Leu Ala Ala Ala Ala Ala Ser Val Val Ile Asn Ala Leu Met
 115 120 125
 Arg Asp Val Tyr Pro Lys Glu Glu Phe Ser Arg Met Met Ser Phe Val
 130 135 140
 Met Leu Val Thr Thr Ile Ala Pro Leu Val Ala Pro Met Val Gly Gly
 145 150 155 160
 Ala Val Leu Val Trp Phe Ser Trp His Ala Ile Phe Trp Ile Leu Ala
 165 170 175
 Ile Ala Ala Leu Leu Ala Ser Val Met Ile Phe Val Phe Ile Asp Glu
 180 185 190
 Thr Leu Pro Val Glu Arg Arg Gln Lys Phe His Val Arg Thr Thr Leu
 195 200 205

Gly Asn Phe Ala Ser Leu Phe Arg His Lys Arg Val Leu Ser Tyr Met
 210 215 220
 Leu Ala Ser Gly Phe Ser Phe Ala Gly Met Phe Ser Phe Leu Ser Ala
 225 230 235 240
 Gly Pro Phe Val Tyr Ile Glu Leu Asn His Val Ser Pro Gln His Phe
 245 250 255
 Gly Tyr Tyr Phe Ala Leu Asn Ile Val Phe Leu Phe Val Met Thr Ile
 260 265 270
 Ile Asn Ser Arg Phe Val Arg Arg Val Gly Ala Leu Asn Met Phe Arg
 275 280 285
 Ala Gly Leu Trp Ile Gln Phe Val Met Ala Ile Trp Leu Val Leu Ser
 290 295 300
 Ala Leu Leu Gly Val Gly Phe Trp Ala Leu Val Val Gly Val Ala Ala
 305 310 315 320
 Phe Val Gly Cys Val Ser Met Val Ser Ser Asn Ala Met Ala Val Ile
 325 330 335
 Leu Asp Glu Phe Pro His Met Ala Gly Thr Ala Ser Ser Leu Ala Gly
 340 345 350
 Thr Phe Arg Phe Gly Ile Gly Ala Ile Val Gly Ala Leu Leu Ser Thr
 355 360 365
 Ala Thr Phe Asn Thr Ala Trp Pro Met Leu Trp Ala Ile Ala Leu Cys
 370 375 380
 Ala Thr Cys Ser Ile Leu Phe Tyr Leu Tyr Ala Ser Arg Pro Arg Lys
 385 390 395 400
 Thr Ala His Lys
 405

<210> 6560

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 6560

Ser Lys Phe Ala Ser Gly Asp Leu Asn Val Asn Thr Leu Gln Leu Ser
 1 5 10 15
 Ile Val His Arg Leu Pro Gln Ser Tyr Arg Trp Ser Thr Gly Phe Ala
 20 25 30
 Gly Ser Lys Val Glu Pro Ile Pro Gln Ser Val Ala Gly Glu Asp Asn
 35 40 45
 Cys Leu Val Ala Leu Lys Leu Leu Ser Pro Ser Asp Glu Asn Ala Trp
 50 55 60
 Pro Val Met Glu Arg Leu Ser Gln Ala Leu Thr Asp Ile Glu Val Asp
 65 70 75 80
 Ser Ser Val Leu Glu Cys Glu Gly Glu Pro Cys Leu Phe Val Asn Ser
 85 90 95
 Gln Asp Glu Phe Ala Ala Thr Cys Arg Leu Lys Asn Phe Gly Val Ala
 100 105 110
 Ile Ala Glu Pro Phe Ser Gly Gln Tyr Pro Phe
 115 120

<210> 6561

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6561

Lys Arg Met Glu Gln Val Ala Gln Arg Ala Ile Ala His Ser Ile Gly
 1 5 10 15
 Gln Ala Val Leu Asn Val Ala Val Glu Ser Ser Ala Pro Thr Ile Ala
 20 25 30
 Pro Ile Pro Lys Arg Asn Val Pro Ala Ser Asp Glu Ala Val Pro Ala

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      35              40              45
Ile Cys Gly Asn Ser Ser Arg Ile Thr Ala Ile Ala Leu Asp Glu Thr
  50              55              60
Ile Asp Thr Gln Pro Thr Asn Ala Ala Thr Pro Thr Thr Ser Ala Gln
  65              70              75              80
Lys Pro Thr Pro Ser Asn Ala Leu Asn Thr Ser Gln Ile Ala Ile Thr
      85              90              95
Asn Trp Ile His Ser Pro Ala Arg Asn Ile Phe Ser Ala Pro Thr Arg
      100              105              110
Arg Thr Lys Arg Leu Leu Ile Met Val Ile Thr Asn Arg Asn Thr Ile
      115              120              125
Phe Ser Ala Lys
      130

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<210> 6562

<211> 592

<212> PRT

<213> Enterobacter cloacae

<400> 6562

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Leu Asn Arg Glu Ala Met Thr Phe Thr Leu Arg Pro Tyr Gln Gln Glu
  1              5              10              15
Ala Val Asp Ala Thr Leu Ala Trp Phe Arg Lys His Arg Glu Pro Ala
      20              25              30
Ala Ile Val Leu Pro Thr Gly Ala Gly Lys Ser Leu Val Ile Ala Glu
      35              40              45
Leu Ala Arg Leu Ala Arg Gly Arg Val Leu Val Leu Ala His Val Lys
      50              55              60
Glu Leu Val Ala Gln Asn His Ala Lys Tyr Cys Ala Leu Gly Leu Glu
      65              70              75              80
Ala Asp Ile Phe Ala Ala Gly Leu Lys Arg Lys Glu Ser His Gly Lys
      85              90              95
Val Val Phe Gly Ser Val Gln Ser Val Ala Arg Asn Leu Glu Leu Phe
      100              105              110
Arg Ser Glu Phe Ser Leu Leu Ile Val Asp Glu Cys His Arg Ile Ser
      115              120              125
Asp Asp Asp Asp Ser Gln Tyr Gln Gln Ile Leu Thr His Leu Lys Lys
      130              135              140
Val Asn Pro His Leu Arg Leu Leu Gly Leu Thr Ala Thr Pro Phe Arg
      145              150              155              160
Leu Gly Lys Gly Trp Ile Tyr Gln Phe His Tyr His Gly Met Val Arg
      165              170              175
Gly Asp Glu Lys Ala Leu Phe Arg Asp Cys Ile Tyr Glu Leu Pro Leu
      180              185              190
Arg Tyr Met Ile Lys His Gly Tyr Leu Thr Pro Pro Glu Arg Leu Asp
      195              200              205
Met Pro Val Val Gln Tyr Asp Phe Ser Arg Leu Gln Ala Gln Ser Asn
      210              215              220
Gly Leu Phe Ser Glu Ala Asp Leu Asn His Glu Leu Lys Lys Gln Lys
      225              230              235              240
Arg Ile Thr Pro His Ile Ile Ser Gln Ile Glu Glu Phe Ala Gln Thr
      245              250              255
Arg Lys Gly Val Met Ile Phe Ala Ala Thr Val Glu His Ala Arg Glu
      260              265              270
Ile Thr Gly Leu Leu Pro Ala Asp Asp Ala Ala Leu Ile Thr Gly Glu
      275              280              285
Thr Pro Gly Pro Glu Arg Asp Ser Leu Ile Glu Asp Phe Lys Ala Gln
      290              295              300
Arg Phe Arg Tyr Leu Val Asn Val Ser Val Leu Thr Thr Gly Phe Asp
      305              310              315              320
Ala Pro His Val Asp Leu Ile Ala Ile Leu Arg Pro Thr Glu Ser Val

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          325          330          335
Ser Leu Tyr Gln Gln Ile Val Gly Arg Gly Leu Arg Leu Ala Pro Gly
          340          345          350
Lys Thr Asp Cys Leu Ile Leu Asp Tyr Ala Gly Asn Pro His Asp Leu
          355          360          365
Tyr Ser Pro Glu Val Gly Thr Pro Lys Gly Lys Ser Asp Asn Val Pro
          370          375          380
Val Gln Val Phe Cys Pro Ala Cys Gly Phe Ala Asn Thr Phe Trp Gly
          385          390          395
Lys Thr Thr Ala Asp Gly Thr Leu Ile Glu His Phe Gly Arg Arg Cys
          405          410          415
Gln Gly Trp Phe Glu Asp Asp Glu Gly His Arg Glu Gln Cys Asp Phe
          420          425          430
Arg Phe Arg Phe Lys Asn Cys Pro Gln Cys Asn Ala Glu Asn Asp Ile
          435          440          445
Ala Ala Arg Arg Cys Arg Glu Cys Asp Thr Val Leu Val Asp Pro Asp
          450          455          460
Asp Met Leu Lys Ala Ala Leu Lys Leu Lys Asp Ala Leu Val Leu Arg
          465          470          475
Cys Ser Gly Met Ala Leu Gln Pro Gly Ala Asp Glu Lys Gly Glu Trp
          485          490          495
Leu Lys Ile Thr Tyr Tyr Asp Glu Asp Gly Ala Asp Val Ser Glu Arg
          500          505          510
Phe Arg Val Gln Thr Ser Ala Gln Arg Thr Ala Phe Glu Gln Leu Phe
          515          520          525
Ile Arg Pro His Thr Arg Thr Pro Gly Val Pro Leu Arg Trp Leu Thr
          530          535          540
Val Ala Asp Ile Val Arg Gln Gln Ala Leu Leu Arg His Pro Asp Phe
          545          550          555
Val Val Ala Arg Lys Lys Gly Gln Phe Trp Gln Val Arg Glu Lys Val
          565          570          575
Phe Asp Tyr Glu Gly Arg Phe Arg Arg Ala Asn Glu Leu Arg Gly
          580          585          590

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<210> 6563

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6563

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Gly Pro Leu Met Ser Arg Leu Ser Pro Val Asn Gln Ala Arg Trp Ala
1      5      10      15
Arg Phe Arg His Asn Arg Arg Gly Tyr Trp Ser Leu Trp Ile Phe Ala
20     25     30
Val Leu Phe Ala Leu Ser Met Cys Ser Glu Leu Ile Ala Asn Asp Lys
35     40     45
Pro Leu Leu Val His Phe Lys Asp Arg Trp Tyr Val Pro Val Leu Thr
50     55     60
Thr Tyr Ser Glu Ser Asp Phe Gly Gly Pro Phe Ala Thr Pro Ala Glu
65     70     75     80
Tyr Gln Asp Pro Trp Leu Arg Glu Gln Ile Ala Gln His Gly Trp Ala
85     90     95
Ile Trp Ala Pro Ile Arg Phe Gly Ala Asn Ser Ile Asn Phe Ala Thr
100    105    110
Ser Thr Pro Phe Pro Ser Pro Pro Ser Ala Gln Asn Trp Leu Gly Thr
115    120    125
Asp Ala Asn Gly Gly Asp Val Leu Ala Arg Ile Leu Tyr Gly Thr Arg
130    135    140
Ile Ser Leu Leu Phe Gly Leu Met Leu Thr Leu Phe Ser Ser Val Met
145    150    155    160
Gly Val Val Ala Gly Ala Val Gln Gly Tyr Tyr Gly Gly Lys Ile Asp

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165 170 175
 Leu Trp Gly Gln Arg Val Ile Glu Val Trp Ser Gly Met Pro Thr Leu
 180 185 190
 Phe Leu Ile Ile Leu Leu Ser Ser Val Val Gln Pro Gly Phe Trp Trp
 195 200 205
 Leu Leu Gly Ile Thr Val Leu Phe Gly Trp Met Ala Leu Val Gly Val
 210 215 220
 Val Arg Ala Glu Phe Leu Arg Thr Arg Asn Tyr Asp Tyr Ile Arg Ala
 225 230 235 240
 Ala Gln Ala Leu Gly Val Ser Asp Arg Ala Ile Ile Phe Arg His Met
 245 250 255
 Leu Pro Asn Ala Val Val Ala Thr Leu Thr Phe Leu Pro Phe Ile Leu
 260 265 270
 Cys Ser Ser Ile Thr Thr Leu Thr Ser Leu Asp Phe Leu Gly Phe Gly
 275 280 285
 Leu Pro Leu Gly Ser Pro Ser Leu Gly Glu Leu Leu Leu Gln Gly Lys
 290 295 300
 Asn Asn Leu Gln Ala Pro Trp Leu Gly Ile Thr Ala Phe Leu Ser Val
 305 310 315 320
 Ala Val Leu Leu Ser Leu Leu Ile Phe Ile Gly Glu Ala Val Arg Asp
 325 330 335
 Ala Phe Asp Pro Asn Lys Ala Val
 340 345

<210> 6564

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 6564

Gly Pro Gly Leu Ala Thr Phe Ser Glu Asn His Thr Arg Ala Val Arg
 1 5 10 15
 Gly Leu Asn Pro Glu Val Ile Ala Glu Ile Thr His Arg Tyr Gly Leu
 20 25 30
 Asn Lys Pro Leu His Glu Arg Tyr Cys Arg Met Leu Trp Asp Tyr Val
 35 40 45
 Arg Phe Asp Phe Gly Asp Ser Leu Phe Arg Ser Ala Ser Val Leu Thr
 50 55 60
 Leu Ile Lys Gln Ser Leu Pro Val Ser Ile Thr Leu Gly Leu Trp Gly
 65 70 75 80
 Thr Leu Ile Ile Tyr Leu Val Ser Ile Pro Leu Gly Ile Arg Lys Ala
 85 90 95
 Val Tyr Asn Gly Ser Arg Phe Asp Ile Trp Ser Ser Thr Phe Ile Ile
 100 105 110
 Ile Gly Tyr Ala Ile Pro Ala Phe Leu Phe Ala Val Leu Leu Ile Val
 115 120 125
 Phe Phe Ala Gly Gly Ser Tyr Phe Asp Leu Phe Pro Leu Arg Gly Leu
 130 135 140
 Val Ser Ala Asp Phe Ser Thr Leu Pro Trp Tyr Gln Lys Ile Thr Asp
 145 150 155 160
 Tyr Phe Trp His Ile Thr Leu Pro Val Leu Ala Thr Val Ile Gly Gly
 165 170 175
 Phe Ala Ala Leu Thr Met Leu Thr Lys Asn Ala Phe Leu Asp Glu Ile
 180 185 190
 Arg Lys Gln Tyr Val Val Thr Ala Arg Ala Lys Gly Val Gly Glu Lys
 195 200 205
 Gln Ile Met Trp Lys His Val Phe Arg Asn Ala Met Leu Leu Val Ile
 210 215 220
 Ala Gly Phe Pro Ala Thr Phe Ile Ser Met Phe Phe Thr Gly Ser Leu
 225 230 235 240
 Leu Ile Glu Val Met Phe Ser Leu Asn Gly Leu Gly Leu Leu Gly Tyr

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<210> 6565
<211> 548
<212> PRT
<213> Enterobacter cloacae
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1	Leu	Leu	Leu	Ala	5	Pro	Cys	Ala	Met	Pro	Ser	Ile	Pro	Thr	Arg	Arg
1	Tyr	Asp	Met	Thr	20	Arg	Pro	Leu	Leu	25	Ile	Glu	Asn	Leu	Ser	15
	Phe	Ser	Lys	Gln	Gly	Glu	Ser	Arg	Thr	Val	Val	Thr	Asp	Leu	Ser	30
	Gln	Ile	Gln	Arg	Gly	Glu	Thr	Leu	Ala	Leu	Val	Gly	Glu	Ser	Gly	Ser
	Gly	Lys	Ser	Val	Ser	Ala	Leu	Ser	Val	Leu	Arg	Leu	Leu	Pro	Ser	Pro
65	Pro	Val	Ser	Tyr	Pro	Gln	Gly	Asp	Ile	Leu	75	Phe	His	Gly	Gln	Ser
	Leu	Asn	Ala	Asp	Glu	Gln	Thr	Leu	Arg	Gly	Ile	Arg	Gly	Asn	Asn	Ile
	Ala	Met	Ile	Phe	Gln	Glu	Pro	Met	Val	Ser	Leu	Asn	Pro	Leu	His	Thr
	Leu	Glu	Lys	Gln	Leu	Tyr	Glu	Val	Leu	Ser	Leu	His	Arg	Gly	Met	Arg
	Lys	Glu	Ala	Ala	Arg	Gly	Glu	Ile	Leu	Asp	Cys	Leu	Glu	Arg	Thr	Gly
145	Ile	Arg	His	Ala	Ala	Lys	Arg	Leu	Asn	Asp	Phe	Pro	His	Gln	Leu	Ser
	Gly	Gly	Glu	Arg	Gln	Arg	Val	Met	Ile	Ala	Met	Ala	Leu	Leu	Thr	Arg
	Pro	Glu	Leu	Leu	Ile	Ala	Asp	Glu	Pro	Thr	Thr	Ala	Leu	Asp	Val	Thr
	Val	Gln	Ala	Gln	Ile	Leu	Gln	Leu	Leu	Arg	Glu	Leu	Arg	Asp	Glu	Leu
225	Asn	Met	Ser	Leu	Leu	Phe	Ile	Thr	His	Asn	Leu	Ser	Ile	Val	Lys	Lys
	Leu	Ala	Asp	Ala	Val	Ala	Val	Met	Gln	Asn	235	Gly	Arg	Cys	Val	Gln
	Asn	Arg	Ala	Ser	Ala	Leu	Leu	Ser	Ala	Pro	Gln	His	Pro	Tyr	Thr	Gln
	Arg	Leu	Leu	Asp	Ser	Glu	Pro	Ala	Gly	Asp	Pro	Val	Pro	Leu	Asn	Ala
	Asp	Cys	Ala	Pro	Leu	Leu	Ser	Val	Glu	Gly	Leu	Ser	Val	Ser	Phe	Pro
305	Ile	Arg	Lys	Gly	Ile	Leu	Arg	Arg	Val	Val	Asp	His	Asn	His	Val	Leu
	Lys	Asp	Met	Ser	Phe	Ala	Leu	Arg	Pro	Gly	Glu	Ser	Leu	Gly	Leu	Val
	Gly	Glu	Ser	Gly	Ser	Gly	Lys	Ser	Thr	Thr	Gly	Leu	Ala	Leu	Leu	Arg
	Leu	Ile	Ala	Ser	Gln	Gly	Ser	Ile	Val	Phe	Asp	Gly	Met	Pro	Leu	Gln
	Asn	Leu	Asn	Arg	Arg	Met	Met	Leu	Pro	Val	Arg	Pro	Arg	Met	Gln	Val

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      370      375      380
Val Phe Gln Asp Pro Asn Ser Ser Leu Asn Pro Arg Leu Ser Val Leu
385      390      395      400
Gln Ile Ile Glu Glu Gly Leu Arg Val His Gln Pro Thr Met Thr Ala
      405      410      415
Gln Gln Arg Glu Ile Asp Val Lys Arg Val Met Glu Glu Val Gly Leu
      420      425      430
Asp Pro Glu Thr Arg His Arg Tyr Pro Ala Glu Phe Ser Gly Gly Gln
      435      440      445
Arg Gln Arg Ile Ala Ile Ala Arg Ala Leu Ile Leu Lys Pro Glu Leu
      450      455      460
Ile Val Leu Asp Glu Pro Thr Ser Ser Leu Asp Arg Thr Val Gln Ala
      465      470      475      480
Gln Ile Leu Ala Leu Leu Lys Gly Leu Gln Glu Lys His Arg Leu Ala
      485      490      495
Tyr Ile Phe Ile Ser His Asp Leu Gln Val Val Arg Ala Leu Cys His
      500      505      510
Gln Val Val Val Leu Arg Gln Gly Glu Val Val Glu Gln Gly Glu Cys
      515      520      525
Gln Arg Val Phe Thr Ala Pro Thr Gln Asp Tyr Thr Arg Gln Leu Leu
      530      535      540
Ser Ala Asp
545

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<210> 6566
<211> 160
<212> PRT
<213> Enterobacter cloacae

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<400> 6566
Arg Gln Pro Asp Ala Gly Asn Leu Phe Phe Arg Gln Arg Ala Ile Phe
1      5      10      15
Pro Trp Arg Gln Val Trp Ile Glu Phe Asn Arg Ala Asp Thr Phe Thr
20      25      30
Met Gln Pro His Asn Val Val Ala His Gly Gly Lys His Pro Phe His
35      40      45
Leu Val Ile Ala Ala Phe Thr Asp Gly Gln Ala His Val Ser Trp Ser
50      55      60
Asp Asp Phe Gln His Arg Arg Phe Gly Gln Ile Phe Phe Ile Met Gln
65      70      75      80
Leu Asn Ala Phe Cys Glu Leu Leu Cys Arg Val Ile Arg Asp Arg Arg
85      90      95
Leu Lys Arg His Pro Ile Gly Phe Leu Thr Val Met Ala Arg Gly Gly
100      105      110
Asp Ala Met Arg Pro Leu Ala Val Ile Gly His Gln His Gln Ala Gly
115      120      125
Gly Ile Asn Ile Gln Ser Pro Cys Arg Met Gln Leu Val Arg His Arg
130      135      140
Phe Val Glu Glu Val Glu His Arg Arg Val Ile Arg Ile Val Arg
145      150      155      160

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<210> 6567
<211> 121
<212> PRT
<213> Enterobacter cloacae

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<400> 6567
Thr Asp Val Thr Phe Arg Phe Val Glu His Glu Val Ala Arg Ala Ile
1      5      10      15
Leu Leu Gly Gln Arg Val Ala Val Ile Leu His Leu Val Leu Arg Leu
20      25      30

```

Glu Phe Lys Ser Ala Val Phe His Asn Val Ala Val His Gly Tyr Ala
 35 40 45
 Ala Gly Ala Asn Phe Thr Pro Gly Asn Ser Ala Ala Tyr Ala Glu Leu
 50 55 60
 Leu Ser Asp Lys Leu Ile Lys Ser His Glu Ile Phe Leu Ala Leu Met
 65 70 75 80
 Val Leu Glu Val Gly Leu Arg Val Arg Lys Arg Ser Ser Gln Lys Gln
 85 90 95
 Phe Ser Ile Met Val Trp Leu Arg His Ser Arg Glu Lys Val Ser Trp
 100 105 110
 His Thr Ile Cys Glu Leu Thr Glu
 115 120

<210> 6568

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 6568

Gly Phe Lys Tyr Arg Glu Lys Ser Met Phe Thr Ile Glu Ala Glu Val
 1 5 10 15
 Arg Asn Val Gln Gly Lys Gly Ala Ser Arg Arg Leu Arg Thr Ala Asn
 20 25 30
 Lys Phe Pro Ala Ile Val Tyr Gly Gly Glu Ala Ala Pro Val Ala Ile
 35 40 45
 Glu Leu Asp His Asp Lys Val Trp Asn Met Gln Thr Lys Ala Glu Phe
 50 55 60
 Tyr Ser Glu Val Leu Thr Ile Val Val Gly Gly Lys Glu Glu Lys Val
 65 70 75 80
 Lys Val Gln Ala Val Gln Arg His Ala Phe Lys Pro Lys Leu Thr His
 85 90 95
 Ile Asp Phe Val Arg Ala
 100

<210> 6569

<211> 496

<212> PRT

<213> Enterobacter cloacae

<400> 6569

Glu Ile Thr Met Leu Ser Ser Thr Arg Lys Asp Trp Leu Gly Asn
 1 5 10 15
 Val Arg Gly Asp Val Leu Ala Gly Ile Val Val Ala Leu Ala Leu Ile
 20 25 30
 Pro Glu Ala Ile Ala Phe Ser Ile Ile Ala Gly Val Asp Pro Gln Val
 35 40 45
 Gly Leu Tyr Ser Ala Phe Cys Ile Pro Leu Val Met Ala Phe Phe Gly
 50 55 60
 Gly Arg Pro Ala Met Ile Ser Ser Ser Thr Gly Ala Met Ala Leu Leu
 65 70 75 80
 Met Val Thr Leu Val Lys Asp His Gly Leu Gln Tyr Leu Leu Ala Ala
 85 90 95
 Ser Ile Leu Thr Gly Val Phe Gln Leu Ile Ala Gly Tyr Leu Lys Leu
 100 105 110
 Gly Gly Leu Met Arg Phe Val Ser Arg Ser Val Val Thr Gly Phe Val
 115 120 125
 Asn Ala Leu Ala Ile Leu Ile Phe Met Ala Gln Leu Pro Glu Leu Thr
 130 135 140
 Asn Val Thr Trp His Val Tyr Ala Met Thr Ala Ala Gly Leu Gly Ile
 145 150 155 160
 Ile Tyr Leu Phe Pro Tyr Ile Asn Lys Thr Ile Pro Ser Pro Leu Val

165 170 175
 Cys Ile Val Val Leu Thr Gly Ile Ala Met Trp Leu His Leu Asp Val
 180 185 190
 Arg Thr Val Gly Asp Met Gly Lys Leu Pro Asp Ser Leu Pro Val Phe
 195 200 205
 Leu Leu Pro Asp Val Pro Leu Asn Leu Gln Thr Leu Leu Ile Ile Leu
 210 215 220
 Pro Tyr Ser Ala Gly Leu Ala Val Val Gly Leu Leu Glu Ser Met Met
 225 230 235 240
 Thr Ala Thr Ile Val Asp Asp Met Thr Asp Thr Pro Ser Asp Lys Asn
 245 250 255
 Arg Glu Cys Lys Ala Gln Gly Ile Ala Asn Ile Cys Thr Ser Phe Ile
 260 265 270
 Gly Gly Met Ala Gly Cys Ala Met Ile Gly Gln Ser Val Ile Asn Val
 275 280 285
 Lys Ser Gly Gly Arg Gly Arg Leu Ser Thr Leu Thr Ala Gly Val Val
 290 295 300
 Leu Leu Cys Leu Ile Val Phe Leu Arg Asn Trp Val Ser Gln Ile Pro
 305 310 315 320
 Met Ala Ala Leu Val Ala Val Met Ile Met Val Ser Ile Gly Thr Phe
 325 330 335
 Ser Trp Arg Ser Ile Ala Asn Leu Arg Thr His Pro Leu Ser Thr Ser
 340 345 350
 Val Val Met Leu Ala Thr Val Ala Val Val Ala Thr His Asn Leu
 355 360 365
 Ala Phe Gly Val Leu Thr Gly Val Leu Ile Ala Ser Leu Asn Phe Ala
 370 375 380
 Thr Lys Val Ser Arg Phe Met Arg Val Thr Ser Val Leu Glu Gly Thr
 385 390 395 400
 Ser Arg Thr Tyr Thr Val Thr Gly Gln Val Phe Phe Ala Ser Ala Asp
 405 410 415
 Arg Phe Thr Ser His Phe Asp Phe Arg Glu Ala Ile Glu Asn Val Val
 420 425 430
 Ile Asp Val Ser His Ala His Phe Trp Asp Ile Thr Ser Val Ser Ala
 435 440 445
 Leu Asp Lys Val Val Ile Lys Phe Arg Arg Glu Gly Ala Gly Val Glu
 450 455 460
 Ile Arg Gly Met Asn Glu Ala Thr Arg Thr Ile Val Asp Arg Phe Gly
 465 470 475 480
 Val His Asp Lys Pro Glu Glu Val Glu Lys Leu Met Gly Gly His
 485 490 495

<210> 6570

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 6570

Gln Thr Gly Gly Lys Thr Met Asn Asn Thr Val Thr Ala Cys Val Asp
 1 5 10 15
 Gly Ser Leu Ser Thr Arg Ser Val Cys Glu Tyr Ala Ala Trp Ala Ala
 20 25 30
 Arg Thr Leu Gln Ser Gln Leu Ala Leu Leu His Val Ile Glu Lys Asp
 35 40 45
 Ser Thr Pro Val Val Ser Asp Leu Thr Gly Thr Leu Gly Ile Asp Ser
 50 55 60
 Gln Gln Leu Leu Thr Asp Glu Leu Val Glu Ile Glu Gly Gln Arg Asn
 65 70 75 80
 Arg Leu Leu Met Ala Gln Gly Lys Ala Ile Leu Glu Ser Cys Ala Glu
 85 90 95
 Leu Leu Gln Lys Gln Gly Ser Pro Asp Val Leu Leu Met Gln Lys His

100 105 110
 Gly Thr Pro Asp Glu Val Leu Ala Glu Leu Ser Asp Leu Arg Leu Met
 115 120 125
 Val Leu Gly Arg Arg Gly Ser Gln His Pro Val Gly Ser His Leu Glu
 130 135 140
 Ser Val Ile Arg Leu Gln Lys Lys Pro Leu Leu Val Val Pro Glu Asn
 145 150 155 160
 Tyr Ser Val Pro Ser Arg Val Met Leu Ala Tyr Asp Gly Ser Glu Glu
 165 170 175
 Ser Arg Ser Asn Leu Glu Arg Leu Thr Met Ser Pro Leu Leu Arg Gly
 180 185 190
 Leu Glu Cys His Leu Val Met Val Asn Gly Lys Lys Glu Glu Leu Leu
 195 200 205
 Thr Ala Gln Gln Ile Leu Arg Asp Ala Asp Ile Glu Asn Ser Thr Thr
 210 215 220
 His Leu Thr Gly Gln Ser Val Gly Asp Ala Leu Ile Arg Tyr Ala Glu
 225 230 235 240
 Glu Asn Ala Val Asp Leu Ile Val Met Gly Ala Tyr Gly His Ser Arg
 245 250 255
 Leu Arg Gln Phe Phe Ile Gly Ser His Thr Ser Glu Met Leu Gln Lys
 260 265 270
 Thr Gln Gln Pro Leu Leu Ile Leu Arg
 275 280

<210> 6571

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 6571

Leu Met Lys Trp Arg Phe Phe Met Thr Asp Leu Pro Ala Ile Glu Pro
 1 5 10 15
 Ala Tyr Phe Asp Asp Ala Leu Ala Ser Lys Leu Thr Gly Asn Asn Glu
 20 25 30
 Thr Met Pro Arg Ile Leu Ile Leu Tyr Gly Ser Val Arg Glu Arg Ser
 35 40 45
 Tyr Ser Arg Phe Ala Ala Glu Glu Ala Gly Arg Leu Leu Ala Lys Met
 50 55 60
 Gly Ala Glu Val Lys Ile Phe Asn Pro Ser Gly Leu Pro Leu Pro Asp
 65 70 75 80
 Asp Ala Pro Glu Ser His Pro Lys Val Leu Glu Leu Arg Glu Leu Val
 85 90 95
 Arg Trp Cys Asp Gly Met Val Trp Ser Ser Pro Glu Arg His Gly Ala
 100 105 110
 Met Ser Ser Val Met Lys Ala Gln Ile Asp Trp Ile Pro Leu Ser Glu
 115 120 125
 Gly Ala Val Arg Pro Ser Gln Gly Lys Thr Leu Ala Val Met Gln Val
 130 135 140
 Cys Gly Gly Ser Gln Ser Phe Asn Thr Val Asn Gln Met Arg Ile Leu
 145 150 155 160
 Gly Arg Trp Met Arg Met Phe Thr Ile Pro Asn Gln Ser Ser Val Pro
 165 170 175
 Lys Ala Trp Gln Glu Phe Asp Asp Glu Gly Arg Met Lys Pro Ser Pro
 180 185 190
 Trp Tyr Asp Arg Ile Val Asp Val Thr Glu Glu Leu Phe Lys Met Thr
 195 200 205
 Leu Leu Leu Lys Gly His Thr Ala Tyr Leu Ser Asp Arg Tyr Ser Glu
 210 215 220
 Arg Lys Glu Ser His Gln Glu Leu Ala Ala Arg Val Asn Gln Ala Lys
 225 230 235 240
 Ile

<210> 6572
 <211> 512
 <212> PRT
 <213> Enterobacter cloacae

<400> 6572

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Phe Met His Ser Tyr Glu Asp Arg Ile Arg Ala Val Glu Leu Tyr Tyr
1          5          10          15
Arg Tyr Gly Lys Lys Ala Ser Val Val Val Met Glu Leu Gly Tyr Pro
20          25          30
Ser Thr Lys Gln Leu Gly Arg Trp Val Arg Ile Tyr Glu Glu Lys Gly
35          40          45
Asp Leu Pro Arg Glu Leu Lys Pro Arg Glu Arg Tyr Ser Arg Thr Gln
50          55          60
Lys Ile Ala Ala Val Glu His Tyr Leu Thr His Gly Gly Cys Leu Ser
65          70          75          80
Tyr Thr Arg Arg Ala Ile Gly Tyr Pro Ser Asn Glu Ile Leu Lys Arg
85          90          95
Trp Ile Glu Glu Phe Tyr Pro Asn Ala Arg Pro Leu Val Ile Arg Ser
100          105          110
Gly Thr Asn Lys Cys Phe Ser Pro Glu Glu Arg Ser Gln Ala Val Arg
115          120          125
Glu Leu Cys Asn Arg Arg Gly Thr Ala Arg Lys Val Ala Gln Ser Ile
130          135          140
Gly Val Ser Val Pro Val Leu Tyr Lys Trp Lys Lys Asp Leu Ile Ser
145          150          155          160
Asp Glu Ala Tyr Gln Ser Met Arg Lys Arg Lys Ala Ala Pro Gln Asp
165          170          175
Lys Asn Gln Asp Ala Leu Leu Gly Glu Ile Gln Arg Leu Arg Gln Gln
180          185          190
Val His Gln Leu Gln Leu Glu Arg Asp Ile Leu Thr Lys Ala Asn Glu
195          200          205
Leu Ile Lys Lys Asp Leu Gly Ile Ser Phe Leu Thr Leu Lys Asn Arg
210          215          220
Glu Lys Thr Leu Ile Val Asp Ala Leu Lys Lys Lys Tyr Pro Val Ala
225          230          235          240
Glu Leu Leu Ser Val Leu Gln Leu Ala Arg Ser Cys Tyr Phe Tyr His
245          250          255
Lys Ala Ser Lys Arg Leu Cys Asp Lys Tyr Ala Glu Ile Arg Val Ile
260          265          270
Met Ala Asp Ile Phe Glu Glu Asn Tyr Arg Cys Tyr Gly Tyr Arg Arg
275          280          285
Leu His Ala Met Leu Arg Gly Asn Asn Arg Val Ile Ser Glu Lys Val
290          295          300
Val Arg Arg Leu Met Ala Glu Glu Gln Leu Val Val Lys Arg Thr Arg
305          310          315          320
Arg Arg Arg Tyr Asn Ser Tyr Cys Gly Glu Ile Gly Pro Ala Pro Glu
325          330          335
Asn Leu Leu Ala Arg Asp Phe Ser Ser Cys Arg Pro Asn Glu Lys Trp
340          345          350
Leu Thr Asp Ile Thr Glu Phe Gln Leu Pro Ala Gly Lys Val Tyr Leu
355          360          365
Ser Pro Val Ile Asp Cys Phe Asp Gly Gln Val Val Ser Trp Ser Ile
370          375          380
Gly Thr Arg Pro Asp Ala Thr Leu Val Asn Thr Met Leu Asp Glu Ala
385          390          395          400
Leu Asp Thr Leu Asn Glu His Asp Lys Pro Val Ile His Ser Asp Arg
405          410          415
Gly Gly His Tyr Arg Trp Pro Gly Trp Leu Asp Arg Ile Asn Thr Ser

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420 425 430
 Gly Leu Ile Arg Ser Met Ser Arg Lys Gly Cys Ser Ser Asp Asn Ala
 435 440 445
 Ala Cys Glu Gly Phe Phe Gly Arg Ile Lys Asn Glu Met Phe Tyr Gly
 450 455 460
 Arg Asn Trp Thr Gly Ile Thr Leu Glu Lys Phe Ile Cys Phe Leu Asp
 465 470 475 480
 Arg Tyr Ile Arg Trp Tyr Asn Glu Lys Arg Ile Lys Leu Ser Leu Gly
 485 490 495
 Ala Met Ser Pro Val Lys Tyr Arg Gln His Leu Gly Ile Thr Thr
 500 505 510

<210> 6573

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 6573

Val Lys Met Ser Gly Val Tyr Asn Gln Val Arg Ile Thr Met Thr Ala
 1 5 10 15
 Leu Ala Ala Glu Phe Phe Thr Leu Asp Glu Val Asn Arg Leu Lys Ile
 20 25 30
 Ile Gln Asp Val Ile Asp Arg Arg Leu Thr Thr Gln Met Ala Ala Gln
 35 40 45
 Arg Leu Gly Ile Ser Asp Arg Gln Cys Arg Arg Leu Leu Ala Arg Tyr
 50 55 60
 Arg Glu Asp Gly Pro Ile Gly Met Thr Ser Arg Arg Arg Gly Lys Ser
 65 70 75 80
 Ser Asn Asn Gln Leu Pro Gln Gly Leu Ala Ala Tyr Ala Leu Asn Ile
 85 90 95
 Ile Arg Glu Arg Tyr Asn Asp Phe Gly Pro Thr Leu Ala Cys Glu Lys
 100 105 110
 Leu Ser Glu Val His Gly Val His Leu Ser Lys Glu Thr Val Arg Lys
 115 120 125
 Leu Met Thr Gln Ala Ser Leu Trp Val Pro Arg Lys Gln Arg Ala Pro
 130 135 140
 Lys Ile Gln Gln Pro Arg Tyr Arg Arg Ala Cys Ala Gly Glu Leu Ile
 145 150 155 160
 Gln Ile Asp Gly Cys Asp His His Trp Phe Glu Asn Arg Gly Pro Lys
 165 170 175
 Cys Thr Ala Leu Val Tyr Val Asp Asp Ala Thr Ser Arg Leu Met Gln
 180 185 190
 Leu Leu Phe Val Lys Ser Glu Ser Thr Phe Thr Tyr Phe Glu Ala Thr
 195 200 205
 Arg Gly Tyr Ile Glu Lys His Gly Lys Pro Leu Ala Leu Tyr Ser Asp
 210 215 220
 Lys Ala Ser Val Phe Arg Ile Asn Asn Lys Asn Ala Thr Gly Gly Asp
 225 230 235 240
 Gly Asp Thr Gln Phe Gly Arg Ala Met His Glu Leu Asn Ile Gln Thr
 245 250 255
 Ile Cys Ala Glu Thr Ser Ala Ala Lys Gly Arg Val Glu Arg Ala His
 260 265 270
 Leu Thr Leu Gln Asp Arg Leu Val Lys Glu Leu Arg Leu Gln Gly Ile
 275 280 285
 Ser Ser Met Glu Ala Ala Asn Ala Phe Ala Glu Glu Phe Met Asn Asp
 290 295 300
 Tyr Asn Arg Arg Phe Ala Lys Ala Pro Arg Gln Glu Phe Asp Val His
 305 310 315 320
 Arg Glu Leu Asp Val Asp Asp Asp Leu Asp Met Val Phe Asn Trp Arg
 325 330 335
 Glu Ala Arg Lys Val Ser Lys Ser Leu Thr Val Gln Tyr Asp Lys Val

	340		345		350
Leu Tyr	Leu Ile Glu Asp Ser	Glu Phe Ser Arg Arg	Ala Ile Gly Lys		
	355	360	365		
Tyr Ile	Asp Val Trp His Tyr	Pro Asp Gly His Lys	Glu Leu Arg Leu		
	370	375	380		
Asn Gly	Val Ser Leu Pro Tyr	Ser Thr Tyr Asp Lys	Leu Ser Glu Ile		
385		390	395		400
Asp Gln	Gly Ala Ile Val Asp	Asn Lys Arg Leu Gly	Arg Ala Leu Glu		
	405	410	415		
Met Ala	Gln Leu Val Gln Ala	Glu Arg Asp Asn Asn	Arg Ser Gln Ser		
	420	425	430		
Val Pro	Ser Gly Asp Gly Pro	Ser Arg Arg Arg Lys	Ala Pro Thr Thr		
	435	440	445		
Lys Lys	Ser Gln Arg Ser Leu	Asp Asp Met Phe Asn	Ala Leu		
	450	455	460		
Val Lys	Leu Gln Ser Arg Ser	Glu Glu Ile Phe Gly	Lys Lys Pro Ile		
465		470	475		480

<210> 6574

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 6574

Leu Asp	Thr Phe Leu Val Ile	Pro Ala Tyr Val	Pro Val Gln Glu Ala
1	5	10	15
Asp Lys	Phe Phe Gln Arg Asp	Thr Ser Pro Val Ser	Ala Ile Glu His
	20	25	30
Phe Val	Phe Asp Thr Pro	Glu Glu Ala Phe Thr	Arg Ser Ile Ile Arg
	35	40	45
Arg Ala	Ser Phe Ala Arg His	Gly Pro Tyr Lys Ser	Gly Cys Val Asp
	50	55	60
Thr Ile	Glu Pro Ala Arg Pro	Pro Val Met Ala Thr	Thr Ile Ala Val
65	70	75	80
Tyr Tyr	Arg Phe Ile Met Phe	Val Glu Arg Ile Glu	Cys Phe Ile Glu
	85	90	95
His Arg	Ile His Gln Arg Arg	Val Arg Ala Cys Ser	Tyr Arg Pro Ala
	100	105	110
Tyr Asn	Leu Ala Ile Lys Ala	Val Asp Asn Arg Arg	Gln Ile Asp Phe
	115	120	125
Ser Ser	Arg Lys Leu Glu Leu	Arg Asn Ile Gly Gln	Pro Leu Leu Ile
	130	135	140
Trp Pro	Ala Gly Thr Lys Ile	Pro Gly Glu	
145	150	155	

<210> 6575

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6575

Lys Leu	Ser His Met Lys Tyr	His Met Tyr Cys Tyr	Phe Phe Thr Arg
1	5	10	15
Leu Ser	Met Leu Gln Pro Val	Gln Leu Phe Lys Leu	Leu Ala Asp Glu
	20	25	30
Thr Arg	Ser Thr Ile Val Met	Leu Leu Arg Glu Ser	Gly Glu Met Cys
	35	40	45
Val Cys	Asp Ile Cys Ala Ala	Thr Ala Glu Ser Gln	Pro Lys Ile Ser
	50	55	60

Arg His Met Ala Leu Leu Arg Glu Ala Glu Leu Val Ile Asp Arg Arg
 65 70 75 80
 Glu Gly Lys Trp Val His Tyr Arg Leu Ser Pro His Met Pro Ala Trp
 85 90 95
 Ala Ala Gly Ile Ile Asp Thr Ala Trp Asn Cys Glu Arg Glu Asn Ile
 100 105 110
 Arg Asn Lys Leu Ser Ser Val Ala Ser Val Ser Cys
 115 120 125

<210> 6576

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 6576

Met Glu Phe Leu Met Leu Leu Ala Gly Ala Ile Phe Leu Phe Thr Leu
 1 5 10 15
 Val Leu Val Ile Trp Gln Pro Arg Gly Leu Gly Ile Gly Trp Ser Ala
 20 25 30
 Ser Leu Gly Ala Ile Leu Ala Leu Leu Thr Gly Val Val His Leu Gly
 35 40 45
 Asp Ile Pro Val Val Trp Gln Ile Val Trp Asn Ala Thr Ala Thr Phe
 50 55 60
 Ile Ala Val Ile Ile Ile Ser Leu Leu Leu Asp Glu Ser Gly Phe Phe
 65 70 75 80
 Glu Trp Ala Ala Leu His Val Ala Arg Trp Gly Asn Gly Arg Gly Arg
 85 90 95
 Leu Leu Phe Thr Trp Ile Val Leu Leu Gly Ala Met Val Ala Ala Leu
 100 105 110
 Phe Ala Asn Asp Gly Ala Ala Leu Ile Leu Thr Pro Ile Val Ile Ala
 115 120 125
 Met Leu Leu Ala Leu Gly Phe Ser Arg Gly Ala Thr Leu Ala Phe Ile
 130 135 140
 Met Ala Ala Gly Phe Ile Ala Asp Thr Ala Ser Leu Pro Leu Ile Val
 145 150 155 160
 Ser Asn Leu Val Asn Ile Val Ser Ala Asp Phe Phe Lys Leu Gly Phe
 165 170 175
 Ser Glu Tyr Ala Val Met Val Pro Val Asn Leu Ala Ala Ile Ala
 180 185 190
 Ala Thr Leu Val Met Leu His Leu Phe Phe Arg Lys Asp Ile Pro Ala
 195 200 205
 Val Tyr Asp Val Ser Leu Leu Lys Glu Pro Lys Asp Ala Ile Arg Asp
 210 215 220
 Val Asn Thr Phe Lys Thr Gly Trp Leu Val Leu Val Leu Leu Val
 225 230 235 240
 Gly Phe Phe Gly Leu Glu Pro Leu Gly Val Pro Val Ser Leu Val Ala
 245 250 255
 Ala Ala Gly Ala Leu Leu Leu Phe Ala Val Ala Lys Lys Gly His Ala
 260 265 270
 Ile Asn Thr Gly Lys Val Leu Arg Gly Ala Pro Trp Gln Ile Val Ile
 275 280 285
 Phe Ser Leu Gly Met Tyr Leu Val Val Tyr Gly Leu Arg Asn Ala Gly
 290 295 300
 Leu Thr His Tyr Leu Ser Ser Leu Leu Asn Gln Leu Ala Glu Gln Gly
 305 310 315 320
 Leu Trp Ala Ala Thr Leu Gly Thr Gly Phe Leu Thr Ala Phe Leu Ser
 325 330 335
 Ser Val Met Asn Asn Met Pro Thr Val Leu Val Gly Ala Leu Ser Ile
 340 345 350
 Asp Gly Ser Thr Ala Thr Gly Val Ile Lys Glu Ala Met Ile Tyr Ala
 355 360 365

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Asn Val Ile Gly Ser Asp Leu Gly Pro Lys Ile Thr Pro Ile Gly Ser
370 375
Leu Ala Thr Leu Leu Trp Leu His Val Leu Ser Gln Lys Asn Ile Lys
385 390 395 400
Ile Thr Trp Gly Tyr Tyr Phe Arg Val Gly Ile Val Met Thr Ile Pro
405 410 415
Val Leu Phe Val Thr Leu Ala Ala Leu Arg Leu Ser Phe Thr
420 425 430
Leu

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<210> 6577
<211> 145
<212> PRT
<213> Enterobacter cloacae

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```

<400> 6577
Asp Thr Asp Met Ser Asn Ile Thr Ile Tyr His Asn Pro Ala Cys Gly
1 5 10 15
Thr Ser Arg Asn Thr Leu Glu Met Ile Arg Asn Ser Gly Thr Glu Pro
20 25 30
Thr Val Ile His Tyr Leu Glu Thr Pro Pro Ser Arg Ala Glu Leu Val
35 40 45
Lys Leu Ile Ala Asp Met Gly Ile Thr Val Arg Ala Leu Leu Arg Lys
50 55 60
Asn Val Glu Pro Phe Glu Ala Leu Gly Leu Ala Glu Asp Arg Phe Thr
65 70 75 80
Asp Glu Gln Leu Ile Asp Phe Met Leu Gln His Pro Val Leu Ile Asn
85 90 95
Arg Pro Ile Val Val Thr Pro Leu Gly Thr Arg Leu Cys Arg Pro Ser
100 105 110
Glu Val Val Leu Asp Ile Leu Pro Asp Ala Gln Lys Ser Ala Phe Thr
115 120 125
Lys Glu Asp Gly Glu Lys Val Val Asp Glu Lys Gly Asn Arg Leu Asn
130 135 140

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145

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<210> 6578
<211> 208
<212> PRT
<213> Enterobacter cloacae

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<400> 6578
Pro Pro Leu Cys Gly Phe Phe Ile Gly Asp Ser Leu Val Ala Glu Glu
1 5 10 15
Val Lys Phe Val Val Val Gly His His Thr Arg Thr Gly Gln Ala Gln
20 25 30
Arg Leu Ala Ala Leu Leu Asp Ala His Leu Leu Ile Asp Asp Gly Lys
35 40 45
His Gly Ala Asn Trp Asn His Arg Arg Ala Leu Glu Trp Ala Ala Glu
50 55 60
Gln Thr Cys Arg Val Val Val Glu Asp Asp Ala Leu Pro Val His
65 70 75 80
Gly Phe Thr Glu Lys Val Thr Asp Trp Leu Ala Arg Phe Pro Asp Asp
85 90 95
Met Leu Ser Phe Tyr Leu Gly Thr Gly Arg Pro Pro Gln Tyr Gln Met
100 105 110
Gln Ile Ala Glu Arg Leu Thr Val Ala Asp Lys Thr Arg Ala Asp Tyr
115 120 125
Ile Thr Leu Ser Arg Leu Ile His Gly Val Cys Tyr Ser Val Pro Pro

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130	135	140
Glu His Val His Arg Val Leu Ser Arg Trp Asp Asn Ser Lys Pro Ala		
145	150	155
Asp Tyr Ala Val Gly Asp Ala Trp Gly Gly Ser Val Ile Tyr Pro Cys		160
	165	170
Tyr Ser Leu Val Asp His Ala Asp Gly Glu Pro Val Glu Arg His Pro		175
	180	185
Asp Ser Ala Pro Arg Thr Glu Arg Arg Ala Trp Arg Leu Ala		190
	195	200
		205

<210> 6579

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6579

Glu Phe Ser Ile Met Ser Gly Pro Pro Lys Thr Pro Thr His Leu Arg		
1	5	10
Leu Val Arg Gly Asn Pro Ser Lys Arg Pro Ile Asn Glu Asn Glu Pro		15
	20	25
Lys Pro Pro Ser Gly Val Pro Pro Thr Pro Lys His Phe Asp Lys Gln		30
	35	40
Gly Lys Tyr Trp Phe Lys Arg Met Ala Asp Glu Leu Asp Ala Ile Gly		45
	50	55
Val Met Ser Gln Leu Asp Ala Arg Ala Leu Glu Leu Leu Val Glu Ala		60
65	70	75
Tyr Thr Glu Tyr Arg His His Cys Asp Thr Leu Glu Val Glu Gly Tyr		80
	85	90
Thr Tyr Arg Thr Glu Thr Gln Ser Gly Asp Val Leu Ile Lys Ala His		95
	100	105
Pro Ala Ala Ile Met Lys Ala Asp Ala Trp Lys Arg Leu Arg Ala Met		110
	115	120
Leu Gly Glu Phe Gly Met Thr Pro Ala Ser Arg Ser Lys Val Asn Ala		125
	130	135
Lys Gly Pro Glu Ala Val Asp Pro Leu Ala Glu Phe Met Lys Ala Arg		140
145	150	155
Asp		160

<210> 6580

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 6580

Ser His His Gly Arg Phe Leu Met Lys Lys Asn Lys Arg Pro Gly Arg		
1	5	10
Val Lys Ser Ala Leu Leu Asn Trp Leu Gly Val Pro Ile Ser Leu Thr		15
	20	25
Thr Gly Thr Phe Trp Glu Glu Trp Phe Gly Thr Ser Ser Ser Gly Lys		30
	35	40
Val Val Thr Ala Asp Lys Ala Ile Gln Leu Ser Ala Val Trp Ala Cys		45
	50	55
Val Arg Leu Leu Ser Glu Ser Ile Ser Thr Leu Pro Leu Lys Ile Tyr		60
65	70	75
Val Arg Gln Pro Asp Gly Ser Arg Lys Ala Ala Thr Asp His Pro Ala		80
	85	90
Tyr Ser Ile Leu Cys Arg Arg Pro Asn Ser Glu Met Thr Pro Ser Arg		95
	100	105
Phe Met Leu Met Val Val Ala Ser Ile Cys Leu Arg Gly Asn Ala Phe		110
	115	120
		125

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Ile Glu Lys Lys Phe Ile Ala Asn Arg Leu Val Ser Leu Val Pro Leu
130 135 140
Leu Pro Gln Asn Met Val Val Lys Arg Leu Val Thr Gly Ala Leu Glu
145 150 155 160
Tyr Lys Tyr Thr Glu Asn Gly Asn Glu Arg Val Ile Pro Val Lys Asn
165 170 175
Ile Met His Ile Arg Gly Phe Gly Leu Asp Gly Val Cys Gly Met Met
180 185 190
Pro Met Lys Thr Gly Arg Asp Val Ile Gly Ser Ala Met Ala Val Glu
195 200 205
Glu Ser Ala Ala Lys Ile Phe Glu Gln Gly Leu Gln Ser Ser Gly Phe
210 215 220
Leu Ser Ala Glu Asn Ala Leu Ser Asp Glu Gln Arg Glu Arg Leu Arg
225 230 235 240
Ser Tyr Met Ala Ala Phe Thr Gly Ser Lys Asn Ala Gly Lys Ile Met
245 250 255
Val Leu Glu Gly Gly Leu Lys Tyr Gln Gly Val Thr Met Asn Pro Glu
260 265 270
Asp Ala Gln Met Leu Glu Ser Arg Ser Phe Ser Ile Glu Glu Ile Cys
275 280 285
Arg Trp Phe Arg Val Pro Pro Phe Met Val Gly His Thr Thr Lys Gln
290 295 300
Ser Ser Trp Ala Ser Ser Leu Glu Gly Met Asn Leu Gln Phe Leu Thr
305 310 315 320
His Thr Leu Arg Pro Leu Leu Val Asn Ile Glu Gln Glu Ile Gly Arg
325 330 335
Cys Leu Leu Asp Ser Asp Asp Glu Val Phe Ala Glu Phe Ser Val Glu
340 345 350
Gly Leu Leu Arg Ala Asp Ser Ala Gly Arg Ala Ala Tyr Thr Ser
355 360 365
Ala Leu Gln Asn Gly Trp Met Ser Arg Asn Asp Val Arg Arg Leu Glu
370 375 380
Asn Met Pro Pro Ile Glu Gly Gly Asp Ile Tyr Thr Val Gln Leu Asn
385 390 395 400
Leu Thr Gln Leu Lys Asn Leu Glu Ser Ser Asn Pro Ala Val Gln Ala
405 410 415
Leu Ala Leu Arg Glu Leu His Asn His Ile Phe Pro Asp Ile Ser Phe
420 425 430
Glu Gln Ser Pro Leu Lys Gln Ala Ala
435 440

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<210> 6581

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 6581

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Ala Ser Pro Arg Leu Ser Ala Thr His Arg Thr Pro Pro Gly Val Glu
1 5 10 15
Val Ser Leu Met Pro Ala Leu Ile Pro Arg Ala Cys Arg Lys Arg Gly
20 25 30
Cys Pro Gly Thr Thr Thr Asp Arg Ser Gly Tyr Cys Pro Lys His Leu
35 40 45
Asn Glu Gly Trp Gln Gln His Gln Arg Gly Gln Ser Arg His Gln Arg
50 55 60
Gly Tyr Gly Ser Lys Trp Asp Arg Leu Arg Pro Ile Val Leu Gly Arg
65 70 75 80
Asp Lys His Leu Cys Gln Glu Cys Leu Arg Asn Gly Arg Tyr Thr Pro
85 90 95
Ala Glu Thr Val Asp His Ile Thr Ala Lys Ala Asn Gly Gly Thr Asp
100 105 110

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Asp Leu Ser Asn Leu Glu Ser Leu Cys Lys Pro Cys His Arg Ala Lys
 115 120 125
 Thr Ala Val Glu Arg Leu Lys
 130 135

<210> 6582

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 6582

Ser Ala Gly Arg Val Tyr Glu Ser Glu Gly Leu Met Ala Lys Val Ala
 1 5 10 15
 Glu Gly Ile Arg Tyr Ala Glu Arg Val Val Ala Gly Glu Ile Ile Ala
 20 25 30
 Cys Glu Tyr Val Arg Leu Ala Cys Glu Arg Phe Leu Asp Asp Leu Ala
 35 40 45
 His Gly Glu Glu Arg Gly Ile Phe Phe Ser Glu Pro Arg Ala Gln His
 50 55 60
 Ile Leu Asn Phe Tyr Asn Phe Val Pro His Val Lys Gly Ala Leu Ala
 65 70 75 80
 Gly Gln Pro Ile Glu Leu Met Asp Trp His Val Phe Ile Leu Ile Asn
 85 90 95
 Ile Phe Gly Phe Val Ile Pro Leu Val Asn Glu Glu Thr Gly Glu Thr
 100 105 110
 Val Leu Arg Asn Asp Gly Ser Gly Arg Pro Val Met Val Arg Arg Phe
 115 120 125
 Arg Thr Ala Asp Val Glu Val Ala Arg Lys Asn Ala Lys Ser Thr Leu
 130 135 140
 Cys Ser Gly Val Gly Leu Tyr Met Ala Gly Ala Asp Gly Glu Gly Gly
 145 150 155 160
 Ala Glu Val Tyr Ser Ala Ala Thr Thr Arg Asp Gln Ala Arg Ile Val
 165 170 175
 Phe Glu Asp Ala Lys Asn Met Val Lys Lys Ala Lys Ala Thr Leu Gly
 180 185 190
 Arg Ile Phe Glu Phe Asn Lys Leu Ala Ile Tyr Gln Glu Gln Thr Ala
 195 200 205
 Ser Lys Phe Glu Pro Leu Ser Ser Asp Ala Asn Asn Leu Asp Gly Leu
 210 215 220
 Asn Ile His Cys Ala Ile Val Asp Glu Leu His Ala His Lys Thr Arg
 225 230 235 240
 Asp Val Trp Asp Val Leu Glu Thr Ala Thr Gly Ala Arg Leu Gln Ser
 245 250 255
 Leu Leu Phe Gly Ile Thr Thr Ala Gly Phe Asn Lys Glu Gly Ile Cys
 260 265 270
 Tyr Glu Leu Arg Asp Tyr Ala Ile Lys Val Leu Arg Gly Leu Val Lys
 275 280 285
 Asp Asp Thr Phe Phe Ala Ile Ile Tyr Thr Leu Asp Glu Gly Asp Asp
 290 295 300
 Pro Phe Asp Glu Lys Val Trp Gln Lys Ala Asn Pro Gly Leu Gly Ile
 305 310 315 320
 Cys Lys Arg Trp Asp Asp Leu Arg Arg Leu Ala Lys Lys Ala Lys Glu
 325 330 335
 Gln Val Ser Ala Arg Ile Asn Phe Phe Thr Lys His Met Asn Ile Trp
 340 345 350
 Val Thr Ala Glu Ser Ala Trp Met Asp Met Met Lys Trp Glu Lys Cys
 355 360 365
 Glu Phe Ile Ala Pro Gln His Glu Leu Lys Thr Tyr Pro Ser Trp Val
 370 375 380
 Gly Val Asp Leu Ser Asn Lys Ile Asp Ile Cys Ala Ala Ala Lys Val
 385 390 395 400

Trp Arg Ala Pro Asp Gly His Val His Ala Asp Phe Lys Phe Trp Leu
 405 410 415
 Pro Glu Gly Arg Leu Glu Lys Cys Ser Arg Gln Met Ala Glu Leu Tyr
 420 425 430
 Arg Lys Trp Ala Gly Met Asp Lys Leu Ile Leu Thr Asp Gly Asp Val
 435 440 445
 Ile Asp His Ala Gln Ile Lys Glu Glu Leu Gln Leu Trp Val Ala Gly
 450 455 460
 Glu Ser Leu Lys Glu Ile Gly Phe Asp Pro Trp Ser Ala Thr Gln Phe
 465 470 475 480
 Ser Leu Ala Leu Ala Glu Glu Gly Leu Pro Leu Val Glu Val Pro Gln
 485 490 495
 Thr Val Arg Asn Phe Ser Glu Ala Met Lys Glu Val Glu Ala Leu Val
 500 505 510
 Tyr Gly Gly Arg Phe His His Ser Asp His Pro Val Met Asn Trp Met
 515 520 525
 Met Ser Asn Val Thr Val Lys Pro Asp Arg Asn Glu Asn Ile Phe Pro
 530 535 540
 Asn Lys Ser Thr Pro Glu Ala Lys Ile Asp Gly Pro Ala Ala Leu Phe
 545 550 555 560
 Thr Ala Met Ser Arg Val Leu Val Asn Gly Gly Asn Asp Gln Gln Asp
 565 570 575
 Leu Ser Gly Phe Phe Asn Asn Pro Ile Met Val Gly Phe
 580 585 590

<210> 6583

<211> 292

<212> PRT

<213> *Enterobacter cloacae*

<400> 6583

Asn Arg Pro Leu Arg Ser Thr Phe Leu Met Ser Lys Lys Gln Leu Pro
 1 5 10 15
 Ala Ala Pro Ala Gly Arg Pro Cys Ala Arg Val Thr Cys Glu Thr Leu
 20 25 30
 Pro Ser Ala Leu Asp Arg Trp Asp Gly Ile Lys Ala Ala Thr
 35 40 45
 Asp Asp Asn Ser Ile Ser Val Phe Asp Val Ile Gly Gln Asp Tyr Trp
 50 55 60
 Gly Glu Gly Val Thr Ala Lys Arg Ile Ala Gly Ala Leu Arg Ala Met
 65 70 75 80
 Asn Gly Ala Asp Val Thr Val Asn Ile Asn Ser Pro Gly Gly Asp Met
 85 90 95
 Phe Glu Gly Leu Ala Ile Tyr Asn Leu Leu Arg Glu Tyr Glu Gly Arg
 100 105 110
 Val Thr Val Lys Val Leu Gly Ile Ala Ala Ser Ala Ala Ser Val Ile
 115 120 125
 Ala Met Ala Gly Asp Asp Ile Leu Ile Gly Arg Gly Ala Phe Leu Met
 130 135 140
 Ile His Asn Cys Trp Val Tyr Ala Met Gly Asn Arg His Asp Phe Ala
 145 150 155 160
 Glu Leu Ala Gln Ser Leu Glu Pro Phe Asp Asn Ala Met Ala Asp Ile
 165 170 175
 Tyr Ala Ala Arg Ser Gly Leu Asp Met Ala Ala Val Gln Lys Leu Met
 180 185 190
 Asp Ala Glu Ser Tyr Ile Gly Gly Ser Asp Ala Val Ala Lys Gly Leu
 195 200 205
 Ala Asp Ser Leu Leu Ser Ala Asp Ala Val Ser Asp Gly Asp Glu Ser
 210 215 220
 Pro Ala Ala Ala Leu Arg Lys Leu Asp Ala Leu Leu Ala Lys Thr Asn
 225 230 235 240

Thr Pro Arg Ser Glu Arg Arg Lys Leu Ile Lys Ala Leu Ser Gly Gly
 245 250 255
 Met Pro Gly Ala Val Thr Thr Asn Asp Gly Thr Pro Gly Ala Ala Glu
 260 265 270
 Asp Ile Lys Pro Glu Thr Leu Asn Ser Leu Glu Ser Ala Leu Ala Ala
 275 280 285
 Leu Val Lys
 290

<210> 6584

<211> 417

<212> PRT

<213> *Enterobacter cloacae*

<400> 6584

Ala Gly Arg Ile Asn Met Gly Leu Lys His Leu Phe Glu Lys Ile Glu
 1 5 10 15
 Pro His Phe Thr Glu Gly Lys Leu Lys Lys Tyr Tyr Pro Leu Tyr Glu
 20 25 30
 Ala Thr Thr Thr Ile Phe Tyr Thr Pro Gly Leu Val Thr Lys Gly Ala
 35 40 45
 Ala His Val Arg Asp Ala Ile Asp Leu Lys Arg Met Met Ile Leu Val
 50 55 60
 Trp Phe Ala Val Phe Pro Ala Met Phe Trp Gly Met Tyr Asn Val Gly
 65 70 75 80
 Leu Gln Thr Ile Pro Ala Leu His His Met Tyr Asp Ala Glu Gln Leu
 85 90 95
 Ala Gln Val Ile Gln Ser Asp Trp His Tyr Arg Leu Ala Gln Ser Leu
 100 105 110
 Gly Val Ser Phe Ala Ala Asp Ala Gly Trp Ile Ser Met Met Thr Leu
 115 120 125
 Gly Ala Val Phe Phe Leu Pro Ile Tyr Met Thr Val Phe Ile Val Gly
 130 135 140
 Gly Phe Trp Glu Val Leu Phe Ala Ile Ile Arg Lys His Glu Ile Asn
 145 150 155 160
 Glu Gly Phe Phe Val Thr Ser Ile Leu Phe Ala Leu Ile Val Pro Pro
 165 170 175
 Thr Leu Pro Leu Trp Gln Ala Ala Met Gly Ile Ser Phe Gly Val Val
 180 185 190
 Ile Ala Lys Glu Ile Phe Gly Gly Thr Gly Arg Asn Phe Leu Asn Pro
 195 200 205
 Ala Leu Ala Gly Arg Ala Phe Leu Phe Phe Ala Tyr Pro Ala Gln Ile
 210 215 220
 Ser Gly Asp Leu Val Trp Thr Ala Ala Asp Gly Phe Ser Gly Ala Thr
 225 230 235 240
 Pro Leu Ser Gln Trp Ala Ala Gly Gly Gly Glu Thr Leu Val Asn Asn
 245 250 255
 Ala Thr Gly Gln Pro Val Thr Trp Phe Asp Ala Phe Ile Gly Asn Ile
 260 265 270
 Pro Gly Ser Ile Gly Glu Val Ser Thr Leu Met Ile Leu Ile Gly Gly
 275 280 285
 Ala Ile Ile Leu Phe Gly Arg Val Ala Ser Trp Arg Ile Val Ala Gly
 290 295 300
 Val Met Leu Gly Met Val Leu Thr Ala Thr Leu Phe Asn Phe Ile Gly
 305 310 315 320
 Ser Asp Thr Asn Pro Met Phe Ser Met Pro Trp Tyr Trp His Leu Val
 325 330 335
 Leu Gly Gly Phe Ala Phe Gly Met Met Phe Met Ala Thr Asp Pro Val
 340 345 350
 Ser Ala Ser Phe Thr Asp Arg Gly Lys Trp Cys Tyr Gly Ala Leu Ile
 355 360 365

Gly Val Met Cys Val Leu Ile Arg Val Val Asn Pro Ala Tyr Pro Glu
 370 375 380
 Gly Met Met Leu Ala Ile Leu Phe Ala Asn Leu Phe Ala Pro Leu Phe
 385 390 395 400
 Asp Tyr Leu Val Val Arg Ala Asn Ile Lys Arg Arg Lys Ala Arg Gly
 405 410 415

<210> 6585

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 6585

Gln Met Glu Ile Ile Leu Gly Val Val Met Phe Thr Leu Ile Val Leu
 1 5 10 15
 Val Leu Ser Gly Leu Ile Leu Ala Ala Arg Ala Lys Leu Val Asn Ser
 20 25 30
 Gly Asp Val Ile Ile Asp Ile Asn Asp Asp Pro Gln Asn Gln Ile Arg
 35 40 45
 Thr Pro Ala Gly Asp Lys Leu Leu Asn Thr Leu Ser Gly Asn Gly Ile
 50 55 60
 Phe Val Ser Ser Ala Cys Gly Gly Gly Ser Cys Gly Gln Cys Arg
 65 70 75 80
 Val Thr Val Lys Glu Gly Gly Gly Asp Ile Leu Pro Thr Glu Leu Ser
 85 90 95
 His Ile Thr Lys Arg Glu Ala Lys Glu Gly Cys Arg Leu Ala Cys Gln
 100 105 110
 Val Ala Val Arg Gln Asn Met Lys Ile Glu Leu Pro Glu Glu Ile Phe
 115 120 125
 Gly Val Lys Lys Trp Glu Cys Glu Val Ile Ser Asn Asp Asn Lys Ala
 130 135 140
 Thr Phe Ile Lys Glu Leu Lys Leu Arg Val Pro Glu Gly Glu Ser Val
 145 150 155 160
 Pro Phe Arg Ala Gly Gly Tyr Ile Gln Ile Glu Cys Pro Ala His Thr
 165 170 175
 Val Ala Tyr Ala Asp Phe Asp Val Pro Glu Tyr Arg Ala Asp Trp
 180 185 190
 Asp Lys Phe Asn Leu Phe Arg Phe Val Ser Glu Val Lys Glu Pro Ala
 195 200 205
 Leu Arg Ala Tyr Ser Met Ala Asn Tyr Pro Glu Glu Lys Gly Ile Ile
 210 215 220
 Met Leu Asn Val Arg Ile Ala Thr Pro Pro Pro Asn Val Pro Asp Ala
 225 230 235 240
 Pro Pro Gly Val Met Ser Ser Tyr Ile Trp Ser Leu Lys Pro Gly Asp
 245 250 255
 Lys Val Thr Ile Ser Gly Pro Phe Gly Glu Phe Phe Ala Lys Asp Thr
 260 265 270
 Asp Ala Glu Met Val Phe Ile Gly Gly Gly Ala Gly Met Ala Pro Met
 275 280 285
 Arg Ser His Ile Phe Asp Gln Leu Lys Arg Leu Gly Ser Lys Arg Lys
 290 295 300
 Ile Ser Phe Trp Tyr Gly Ala Arg Ser Leu Arg Glu Met Phe Tyr Asp
 305 310 315 320
 Asp Glu Phe Glu Gln Leu Ala Arg Asp Asn Pro Asn Phe Thr Phe His
 325 330 335
 Val Ala Leu Ser Asp Pro Gln Pro Glu Asp Asn Trp Thr Gly Tyr Thr
 340 345 350
 Gly Phe Ile His Asn Val Leu Tyr Glu Asn Tyr Leu Lys Gln His Pro
 355 360 365

Ala Pro Glu Asp Cys Glu Phe Tyr Met Cys Gly Pro Pro Met Met Asn
 370 375 380
 Ala Ala Val Ile Lys Met Leu Lys Asp Leu Gly Val Glu Asp Glu Asn
 385 390 395 400
 Ile Met Leu Asp Asp Phe Gly Gly
 405

<210> 6586

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 6586

Ala Val Tyr Lys Gln Ala Gly Thr Leu His Met Ser Glu Lys Tyr Val
 1 5 10 15
 Val Thr Trp Asp Met Leu Gln Ile His Ala Arg Lys Leu Ala Ala Arg
 20 25 30
 Leu Met Pro Ser Glu Gln Trp Lys Gly Ile Ile Ala Val Ser Arg Gly
 35 40 45
 Gly Leu Val Pro Gly Ala Leu Leu Ala Arg Glu Leu Gly Ile Arg His
 50 55 60
 Val Asp Thr Val Cys Ile Ser Ser Tyr Asp His Asp Asn Gln Arg Glu
 65 70 75 80
 Leu Lys Val Leu Lys Arg Ala Glu Gly Asp Gly Glu Gly Phe Ile Val
 85 90 95
 Ile Asp Asp Leu Val Asp Thr Gly Gly Thr Ala Val Ala Ile Arg Glu
 100 105 110
 Met Tyr Pro Lys Ala His Phe Val Thr Ile Phe Ala Lys Pro Ala Gly
 115 120 125
 Arg Pro Leu Val Asp Asp Tyr Val Ile Asp Ile Pro Gln Asp Thr Trp
 130 135 140
 Ile Glu Gln Pro Trp Asp Met Gly Val Val Phe Val Pro Pro Ile Ser
 145 150 155 160
 Gly Arg

<210> 6587

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 6587

Leu Ala Phe Arg Arg Ala Arg Arg Arg Ile Cys Cys Pro Trp Gln Gly
 1 5 10 15
 Leu Lys Trp Tyr Thr Pro Val Ser Leu Asp Cys Cys Ser Trp Ile Pro
 20 25 30
 Ala Asn His Met Phe Arg Ile Arg Lys Gly Leu Asp Leu Pro Ile Ser
 35 40 45
 Gly Val Pro Glu Gln His Val Thr Thr Gly Ala Ser Ile His His Val
 50 55 60
 Ala Ile Val Gly Asp Asp Tyr Val Gly Met Arg Pro Ala Met Leu Val
 65 70 75 80
 Gln Glu Gly Asp Arg Val Ile Lys Gly Gln Ala Leu Phe Glu Asp Lys
 85 90 95
 Lys Asn Pro Gly Val Met Phe Thr Ala Pro Ala Ser Gly Thr Val Val
 100 105 110
 Ala Ile His Arg Gly Glu Arg Arg Val Leu Gln Ser Val Val Ile Gln
 115 120 125
 Ile Glu Gly Asp Glu Lys Arg Glu Phe Ala Arg Phe Asp Ala Ala Asp
 130 135 140
 Leu Ala Thr Leu Ser His Asp Val Val Gln Thr Gln Leu Leu Glu Ser

145 150 155 160
 Gly Leu Trp Thr Ala Leu Arg Thr Arg Pro Tyr Ser Lys Thr Pro Val
 165 170 175
 Pro Gly Thr Val Pro Ala Ala Ile Phe Val Thr Ala Ile Asp Thr Asn
 180 185 190
 Pro Leu Ser Ala Asp Pro Gln Pro Leu Ile Leu Ala Glu Arg Lys Ala
 195 200 205
 Phe Asp Ala Gly Leu Ala Val Leu Thr Arg Leu Thr Pro Gly Lys Val
 210 215 220
 His Val Cys Gln Ala Cys Gly Gly Lys Leu Gly Gly His Pro Gln Gly
 225 230 235 240
 Gln Val Ala Phe Asn Glu Phe Ala Gly Pro His Pro Ala Gly Leu Val
 245 250 255
 Gly Thr His Ile His Phe Leu Glu Pro Val Ser Leu Thr Lys Gln Val
 260 265 270
 Trp His Leu Asn Tyr Gln Asp Val Ile Ala Ile Gly Lys Leu Phe Thr
 275 280 285
 Thr Gly Glu Leu Cys Ala Glu Arg Ile Ile Ala Ile Gly Gly Pro Gln
 290 295 300
 Ala Thr Gln Pro Arg Leu Val Arg Thr Leu Leu Gly Ala Asp Leu Thr
 305 310 315 320
 Ala Leu Leu Ala Gly Glu Thr Lys Glu Gly Glu Asn Arg Ile Ile Ser
 325 330 335
 Gly Ser Val Leu Ser Gly Arg His Ala Thr Gly Pro Met Ala Trp Leu
 340 345 350
 Gly Arg Phe His Leu Gln Val Ser Val Val Leu Glu Gly Arg Asp Lys
 355 360 365
 Glu Leu Phe Gly Trp Val Leu Pro Gly Ala Glu Lys Tyr Ser Val Thr
 370 375 380
 Arg Thr Thr Leu Gly His Phe Leu Arg His Lys Leu Phe Asn Phe Ser
 385 390 395 400
 Thr Ser Thr Asn Gly Gly Glu Arg Ala Met Val Pro Ile Gly Asn Tyr
 405 410 415
 Glu Arg Val Met Pro Leu Asp Ile Leu Pro Thr Val Leu Leu Arg Asp
 420 425 430
 Leu Leu Ala Gly Asp Thr Asp Gly Ala Gln Ala Leu Gly Cys Leu Glu
 435 440 445
 Leu Asp Glu Glu Asp Leu Ala Leu Cys Thr Tyr Val Cys Pro Gly Lys
 450 455 460
 Tyr Glu Tyr Gly Pro Val Leu Arg Glu Val Leu Thr Arg Ile Glu Gln
 465 470 475 480
 Glu Gly

<210> 6588

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 6588

Cys Trp Pro Phe Cys Leu Pro Ile Cys Leu Arg Arg Cys Ser Thr Thr
 1 5 10 15
 Trp Ser Cys Ala Pro Thr Leu Asn Gly Gly Arg Arg Val Ala Glu Ile
 20 25 30
 Lys Asn Asn Asp Ser Ile Ser Lys Thr Leu Leu Val Val Leu Val Leu
 35 40 45
 Cys Leu Val Cys Ser Ile Val Val Ala Gly Ser Ala Val Gly Leu Lys
 50 55 60
 Pro Leu Gln Gln Glu Gln Arg Ala Leu Asp Lys Gln Arg Asn Ile Leu
 65 70 75 80
 Ala Val Ala Gly Leu Met Gln Glu Gly Met Thr Lys Asp Asp Val Ala

85 90 95
 Ala Val Phe Ala Glu Arg Ile Thr Ala Arg Leu Val Asp Leu Lys Thr
 100 105 110
 Gly Glu Leu Met Asp Lys Asp Pro Ala Lys Tyr Asn Gln Ala Leu Ala
 115 120 125
 Leu Lys Asp Pro Gln Met Ser Thr Thr Leu Asp Ala Ser Gln Asp Pro
 130 135 140
 Ala Gly Ile Lys Arg Arg Ser Asn Val Ala Glu Ile Tyr Leu Val Arg
 145 150 155 160
 Asp Glu Gln Lys Arg Ile Gln Lys Ile Val Leu Pro Ile Tyr Gly Asn
 165 170 175
 Gly Leu Trp Ser Met Met Tyr Ala Phe Val Ala Leu Asp Thr Asp Gly
 180 185 190
 Arg Thr Val Lys Gly Ile Thr Tyr Tyr Asp Gln Gly Glu Thr Pro Gly
 195 200 205
 Leu Gly Gly Glu Val Glu Asn Pro Asn Trp Arg Ala Gln Phe Val Gly
 210 215 220
 Lys Lys Val Leu Asp Asp Asn Gly Gln Pro Ala Leu Lys Val Val Lys
 225 230 235 240
 Gly Gly Ala Arg Pro Gly Asp Glu Phe Ala Val Asp Gly Leu Ser Gly
 245 250 255
 Ala Thr Leu Thr Ser Asn Gly Val Gln His Ser Phe Asp Phe Trp Met
 260 265 270
 Gly Glu Leu Gly Phe Gly Pro Phe Leu Lys Asn Val Arg Glu Gly Ala
 275 280 285
 Leu Asn Asn Gly
 290

<210> 6589

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 6589

Gly Leu Thr Met Arg Lys Ile Ile His Val Asp Met Asp Cys Phe Phe
 1 5 10 15
 Ala Ala Val Glu Met Arg Asp Asn Pro Ala Leu Arg Asp Ile Pro Ile
 20 25 30
 Ala Ile Gly Gly Ser Arg Val Gln Arg Gly Val Ile Ser Thr Ala Asn
 35 40 45
 Tyr Pro Ala Arg Lys Tyr Gly Val Arg Ser Ala Met Pro Thr Ala Met
 50 55 60
 Ala Leu Lys Leu Cys Pro His Leu Thr Leu Leu Pro Gly Arg Phe Asp
 65 70 75 80
 Ala Tyr Lys Glu Ala Ser Ser His Ile Arg Glu Ile Phe Ser Arg Tyr
 85 90 95
 Thr Ser Leu Ile Glu Pro Leu Ser Leu Asp Glu Ala Tyr Leu Asp Val
 100 105 110
 Thr His Ser Val His Cys His Gly Ser Ala Thr Leu Met Ala Gln Glu
 115 120 125
 Ile Arg Gln Thr Ile Phe Asn Glu Leu Asn Leu Thr Ala Ser Ala Gly
 130 135 140
 Val Ala Pro Val Lys Phe Leu Ala Lys Ile Ala Ser Asp Leu Asn Lys
 145 150 155 160
 Pro Asn Gly Gln Tyr Val Ile Thr Pro Glu Glu Val Ser Ala Phe Leu
 165 170 175
 Lys Thr Leu Pro Leu Ser Lys Ile Pro Gly Val Gly Lys Val Ser Ala
 180 185 190
 Ala Lys Leu Glu Ser Met Gly Leu Arg Thr Cys Glu Asp Val Gln Arg
 195 200 205
 Ser Asp Leu Ala Leu Leu Lys Arg Phe Gly Lys Phe Gly Arg Val

210	215	220
Leu Trp Glu Arg Ser	Gln Gly Ile Asp	Asp Arg Val Asn Asn Glu
225	230	235
Arg Leu Arg Lys Ser	Val Gly Val Glu Arg Thr	Leu Ser Glu Asp Ile
245	250	255
His Asp Trp Thr Glu	Cys Glu Thr Ile	Ile Thr Glu Gln Leu Tyr Pro
260	265	270
Glu Leu Glu Arg Arg	Leu Leu Lys Val Lys	Pro Asp Leu Leu Ile Ala
275	280	285
Arg Gln Gly Ile Lys	Leu Lys Phe Asn Asp Phe	Gln Gln Thr Thr Gln
290	295	300
Glu His Val Trp Pro	Arg Leu Asn Lys Glu Asp	Leu Ile Ala Thr Ala
305	310	315
Lys Lys Ala Trp Glu	Glu Arg Arg Gly Gly Arg	Gly Val Arg Leu Val
325	330	335
Gly Leu His Val Thr	Leu Leu Asp Pro Gln	Leu Glu Arg Gln Leu Val
340	345	350
Leu Gly Leu		
355		

<210> 6590

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 6590

Ile Met Ala Asp Thr	Gly Glu Leu Lys	Glu Val Lys Lys Val Leu Ile
1	5	10
Gly Pro Leu Leu Ala	Asn Asn Pro Ile	Thr Leu Gln Val Leu Gly Val
20	25	30
Cys Ser Ala Leu Ala	Val Thr Thr Lys Leu Glu Thr	Ala Val Val Met
35	40	45
Thr Leu Ala Val Thr	Leu Val Thr Ala Phe Ser Ser	Met Phe Ile Ser
50	55	60
Met Ile Arg His His	Ile Pro Asn Ser Val Arg	Ile Ile Val Gln Met
65	70	75
Ala Ile Ile Ala Ser	Leu Val Ile Val Val Asp	Gln Leu Leu Arg Ala
85	90	95
Phe Ala Tyr Glu Thr	Ser Lys Gln Leu Ser Val Phe	Val Gly Leu Ile
100	105	110
Ile Thr Asn Cys Ile	Val Met Gly Arg Ala Glu Ala Tyr	Ala Met Lys
115	120	125
Met Pro Pro Leu Ala	Ser Phe Met Asp Gly Ile Gly	Asn Gly Leu Gly
130	135	140
Tyr Gly Val Ile Leu	Leu Thr Val Gly Phe Leu Arg Glu	Leu Ile Gly
145	150	155
Ser Gly Lys Leu Phe	Gly Ile Pro Val Leu Asp Thr	Val Gln Asn Gly
165	170	175
Gly Trp Tyr Leu Pro	Asn Gly Leu Phe Leu Leu Ala Pro	Ser Ala Phe
180	185	190
Phe Ile Ile Gly Leu	Leu Ile Trp Leu Ile Arg Thr	Leu Lys Pro Glu
195	200	205
Gln Gln Glu Lys Glu		
210		

<210> 6591

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 6591

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Pro Thr Met Ala His Tyr Leu Ser Leu Phe Val Arg Ala Val Phe Val
1      5      10
Glu Asn Met Ala Leu Ala Phe Phe Leu Gly Met Cys Thr Phe Leu Ala
20      25      30
Val Ser Lys Lys Val Ser Thr Ala Phe Gly Leu Gly Val Ala Val Thr
35      40      45
Val Val Leu Gly Leu Ser Val Pro Ile Asn Asn Leu Val Phe Asn Phe
50      55      60
Val Leu Arg Asp Gly Ala Leu Val Glu Gly Val Asp Leu Ser Phe Leu
65      70      75      80
Asn Phe Ile Thr Phe Ile Gly Val Ile Ala Ala Leu Val Gln Ile Leu
85      90      95
Glu Met Ile Leu Asp Lys Tyr Phe Pro Ser Leu Tyr Asn Ala Leu Gly
100      105      110
Ile Phe Leu Pro Leu Ile Ala Val Asn Cys Ala Ile Phe Gly Gly Val
115      120      125
Ser Phe Met Val Gln Arg Asp Tyr Asn Phe Ser Glu Ser Val Val Tyr
130      135      140
Gly Phe Gly Ser Gly Ile Gly Trp Met Leu Ala Ile Val Thr Met Ala
145      150      155      160
Gly Ile Arg Glu Lys Met Lys Tyr Ala Asn Val Pro Ala Gly Leu Arg
165      170      175
Gly Leu Gly Ile Thr Phe Ile Thr Thr Gly Leu Met Ala Leu Gly Phe
180      185      190
Met Ser Phe Ser Gly Val Gln Leu
195      200

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<210> 6592

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6592

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Phe Arg Arg Leu Ile Met Leu Thr Phe Leu Ala Thr Phe Ala Val Phe
1      5      10      15
Val Leu Val Ile Phe Gly Met Ser Leu Gly Trp Ile Ile Lys Arg Lys
20      25      30
Ser Ile Gln Gly Ser Cys Gly Gly Ile Ser Ser Ile Gly Met Glu Lys
35      40      45
Val Cys Asp Cys Pro Glu Pro Cys Asp Ala Arg Lys Lys Arg Met Ala
50      55      60
Arg Glu Gln Gln Arg Ile Ile
65      70

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<210> 6593

<211> 186

<212> PRT

<213> Enterobacter cloacae

<400> 6593

```

Pro Ala Thr Leu Phe Cys Ser Ala Ser Thr Arg Arg Pro Ile Val Ser
1      5      10      15
Glu Leu Ser Gln Leu Ser Pro Gln Pro Leu Trp Asp Ile Phe Ala Lys
20      25      30
Ile Cys Ser Ile Pro His Pro Ser Tyr His Glu Glu Gln Leu Ala Glu
35      40      45
His Ile Met Gly Trp Ala Lys Glu Lys Gly Leu His Ala Glu Arg Asp
50      55      60
Gln Val Gly Asn Ile Leu Ile Arg Lys Pro Ala Thr Ala Gly Met Glu
65      70      75      80
Asn Arg Lys Pro Val Val Leu Gln Ala His Leu Asp Met Val Pro Gln

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<210> 6594
<211> 314
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 6595

<211> 567

<212> PRT

<213> Enterobacter cloacae

<400> 6595

Tyr Cys Leu Arg Gly Cys Pro Ala Pro Val Val Lys Thr Ile Glu Gln
 1 5 10 15
 Met Arg Leu Ser Ala Thr Lys Ala Leu Leu Glu Arg Arg Asp Val Val
 20 25 30
 Val Val Ala Ser Val Ser Ala Ile Tyr Gly Leu Gly Asp Pro Asp Leu
 35 40 45
 Tyr Leu Lys Met Met Leu His Leu Thr Gln Gly Met Ile Ile Asp Gln
 50 55 60
 Arg Ala Ile Leu Arg Arg Leu Ala Glu Leu Gln Tyr Thr Arg Asn Asp
 65 70 75 80
 Gln Ala Phe Gln Arg Gly Thr Phe Arg Val Arg Gly Glu Val Ile Asp
 85 90 95
 Ile Phe Pro Ala Glu Ser Asp Asp Met Ala Leu Arg Val Glu Leu Phe
 100 105 110
 Asp Glu Glu Val Glu Arg Leu Ser Leu Phe Asp Pro Leu Thr Gly His
 115 120 125
 Val Glu Ser Val Ile Gln Arg Phe Thr Ile Tyr Pro Lys Thr His Tyr
 130 135 140
 Val Thr Pro Arg Glu Arg Ile Val Gln Ala Met Glu Glu Ile Lys Ile
 145 150 155 160
 Glu Leu Ala Asp Arg Arg Lys Val Leu Leu Ala Asn Asn Lys Leu Leu
 165 170 175
 Glu Glu Gln Arg Leu Ser Gln Arg Thr Gln Phe Asp Leu Glu Met Met
 180 185 190
 Asn Glu Leu Gly Tyr Cys Ser Gly Ile Glu Asn Tyr Ser Arg Tyr Leu
 195 200 205
 Ser Gly Arg Gly Pro Gly Glu Ala Pro Pro Thr Leu Phe Asp Tyr Leu
 210 215 220
 Pro Ala Asp Gly Leu Leu Val Ile Asp Glu Ser His Val Thr Ile Pro
 225 230 235 240
 Gln Ile Gly Gly Met Tyr Arg Gly Asp Arg Ala Arg Lys Glu Thr Leu
 245 250 255
 Val Glu Tyr Gly Phe Arg Leu Pro Ser Ala Leu Asp Asn Arg Pro Met
 260 265 270
 Lys Phe Glu Glu Phe Glu Ala Leu Ala Pro Gln Thr Ile Tyr Val Ser
 275 280 285
 Ala Thr Pro Gly Asn Tyr Glu Leu Glu Lys Ser Gly Asp Asp Val Val
 290 295 300
 Asp Gln Val Val Arg Pro Thr Gly Leu Leu Asp Pro Ile Ile Glu Val
 305 310 315 320
 Arg Pro Val Ala Thr Gln Val Asp Asp Leu Leu Ser Glu Ile Arg Ala
 325 330 335
 Arg Ser Ala Ile Asn Glu Arg Val Leu Val Thr Thr Leu Thr Lys Arg
 340 345 350
 Met Ala Glu Asp Leu Thr Glu Tyr Leu Glu Glu His Gly Glu Lys Val
 355 360 365
 Arg Tyr Leu His Ser Asp Ile Asp Thr Val Glu Arg Met Glu Ile Ile
 370 375 380
 Arg Asp Leu Arg Leu Gly Glu Phe Asp Val Leu Val Gly Ile Asn Leu
 385 390 395 400
 Leu Arg Glu Gly Leu Asp Met Pro Glu Val Ser Leu Val Ala Ile Leu
 405 410 415
 Asp Ala Asp Lys Glu Gly Phe Leu Arg Ser Glu Arg Ser Leu Ile Gln
 420 425 430
 Thr Ile Gly Arg Ala Ala Arg Asn Val Asn Gly Lys Ala Ile Leu Tyr

```

          435              440              445
Gly Asp Lys Ile Thr Pro Ser Met Ala Lys Ala Ile Gly Glu Thr Glu
450              455              460
Arg Arg Arg Glu Lys Gln Arg Tyr Asn Glu Glu His Gly Ile Thr
465              470              475              480
Pro Gln Gly Leu Asn Lys Lys Val Val Asp Ile Leu Ala Leu Gly Gln
          485              490              495
Asn Ile Ala Lys Thr Lys Ala Lys Gly Arg Gly Lys Ala Arg Ser Val
          500              505              510
Val Glu Glu Asp Thr Val Ala Leu Thr Pro Lys Ala Leu Gln Gln Lys
          515              520              525
Ile His Glu Leu Glu Gly Gln Met Met Gln His Ala Gln Asn Leu Glu
          530              535              540
Phe Glu Glu Ala Ala Gln Ile Arg Asp Gln Leu His Gln Leu Arg Asp
          545              550              555              560
Leu Phe Ile Ala Ala Ser
          565

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<210> 6596

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 6596

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Lys Ala Met Ile Lys Val Leu Phe Phe Ala Gln Val Arg Glu Leu Val
1              5              10              15
Asn Thr Asp Ser Leu Thr Leu Asp Gly Ser Phe Glu Asn Val Ala Ala
          20              25              30
Leu Arg Ala His Leu Ala Ala Gln Gly Asp Arg Trp Ala Leu Ala Leu
          35              40              45
Asp Glu Gly Lys Leu Leu Ala Ala Val Asn Gln Thr Leu Val Glu Leu
          50              55              60
Thr His Pro Leu Ala Asp Gly Asp Glu Val Ala Phe Phe Pro Pro Val
          65              70              75              80
Thr Gly Gly

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<210> 6597

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6597

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Ile Ser Arg Glu Lys Ser Phe Arg Arg Glu Ala Met Lys Trp Gln Gln
1              5              10              15
Arg Val Arg Val Ala Thr Gly Leu Ser Cys Trp Gln Ile Met Leu His
          20              25              30
Leu Leu Val Val Ala Val Leu Val Met Gly Trp Met Ser Gly Thr Leu
          35              40              45
Val Arg Val Gly Leu Gly Leu Cys Val Val Tyr Gly Val Thr Val Leu
          50              55              60
Ser Met Leu Phe Leu Gln Arg His His Asp Ala Arg Trp Arg Glu Val
          65              70              75              80
Gly Asp Val Leu Glu Glu Leu Thr Thr Thr Trp Tyr Phe Gly Ala Ala
          85              90              95
Met Ile Val Leu Trp Leu Leu Ser Arg Val Leu Gln Asn Asn Leu Leu
          100              105              110
Leu Ala Leu Ala Gly Leu Ala Ile Leu Ala Gly Pro Ala Val Val Ser
          115              120              125
Leu Leu Thr Lys Glu Lys Lys Leu Arg Asp Val Ser Ser Lys His Arg
          130              135              140

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Ile Gly His
145

<210> 6598

<211> 171

<212> PRT

<213> *Enterobacter cloacae*

<400> 6598

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Pro Thr Arg Trp Pro Met Gly Thr Lys Trp Pro Ser Ser Arg Arg Ser
1      5      10      15
Gln Gly Val Lys Met Thr Glu Thr Arg Ile Leu Val Gly Pro Glu Arg
20      25      30
Phe Ser Val Gly Thr Glu Tyr Ser Trp Leu Ala Glu Arg Asp Glu Asp
35      40      45
Gly Ala Val Val Thr Phe Thr Gly Lys Val Arg Asn His Asn Leu Gly
50      55      60
Asp Ser Val Lys Ala Leu Thr Leu Glu His Tyr Pro Gly Met Thr Glu
65      70      75      80
Lys Ser Leu Ala Ala Ile Val Glu Glu Ala Arg Gly Arg Trp Pro Leu
85      90      95
Gly Arg Val Thr Val Ile His Arg Ile Gly Glu Met Trp Pro Gly Glu
100      105      110
Glu Ile Val Phe Val Gly Val Thr Ser Ala His Arg Gly Ser Ala Phe
115      120      125
Ala Ala Gly Glu Phe Ile Met Asp Tyr Leu Lys Thr Lys Ala Pro Phe
130      135      140
Trp Lys Arg Glu Ala Thr Pro Glu Gly Glu Arg Trp Val Glu Ser Arg
145      150      155      160
Asp Ser Asp Lys His Ala Ala Ser Arg Trp
165      170

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<210> 6599

<211> 404

<212> PRT

<213> *Enterobacter cloacae*

<400> 6599

```

Lys Cys Thr Ile Thr Ser Leu Cys Ile Asn Leu Tyr Ser Glu Lys Arg
1      5      10      15
Gln Trp Arg Ser Gly Asp Phe His Ala Thr Ile Ala Ile Thr Thr Phe
20      25      30
Ser Lys Leu Lys Thr Tyr Thr Leu Ala Leu Ala Pro Val Ser Arg Asp
35      40      45
Met Ala Pro Trp Pro Trp Arg Ile Cys His Gln Gly Thr Glu Arg Asn
50      55      60
Asp Cys Ala Ser Arg Ser Gly Lys Val Tyr Met Ala Ser Gln Leu Thr
65      70      75      80
Asp Ala Phe Ala Arg Lys Phe Tyr Tyr Leu Arg Leu Ser Ile Thr Asp
85      90      95
Val Cys Asn Phe Arg Cys Thr Tyr Cys Leu Pro Asp Gly Tyr Lys Pro
100      105      110
Gly Ser Val Thr Asn Asn Gly Phe Leu Ser Val Asp Gly Val Arg Arg
115      120      125
Val Thr Arg Ala Phe Ser Glu Leu Gly Thr Glu Lys Val Arg Leu Thr
130      135      140
Gly Gly Glu Pro Ser Leu Arg Arg Asp Phe Pro Asp Ile Ile Ala Ala
145      150      155      160
Val Arg Glu Asn Glu Arg Ile Arg Gln Ile Ala Val Thr Thr Asn Gly
165      170      175
Tyr Arg Met Ala Arg Asp Val Ala Asn Trp Arg Asp Ala Gly Leu Thr

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180      185      190
Ala Ile Asn Val Ser Val Asp Ser Leu Asp Ala Arg Gln Phe His Ala
195      200      205
Ile Thr Gly Gln Asp Lys Phe Arg Gln Val Met Asp Gly Ile Asp Ala
210      215      220
Ala Phe Thr Ala Gly Phe Glu Lys Val Lys Val Asn Thr Val Leu Met
225      230      235      240
Arg Asp Val Asn His His Gln Leu Asp Thr Phe Leu Ala Trp Ile Lys
245      250      255
Ser Arg Pro Ile Gln Leu Arg Phe Ile Glu Leu Met Glu Thr Gly Glu
260      265      270
Gly Ser Glu Leu Phe Arg Arg His His Ile Ser Gly Met Val Leu Arg
275      280      285
Asp Glu Leu Leu Lys Arg Gly Trp Ile His Gln Ile Arg Gln Arg Ser
290      295      300
Asp Gly Pro Ala Gln Val Phe Cys His Pro Asp Tyr Glu Gly Glu Ile
305      310      315      320
Gly Leu Ile Met Pro Tyr Glu Lys Asp Phe Cys Ala Ser Cys Asn Arg
325      330      335
Leu Arg Val Ser Ser Val Gly Lys Leu His Leu Cys Leu Phe Gly Asp
340      345      350
Gly Gly Val Asp Leu Arg Asp Leu Leu Glu Asp Asp Ala Gln Gln Asp
355      360      365
Ala Leu Glu Ala Arg Ile Ser Glu Ala Leu Thr His Lys Lys Gln Thr
370      375      380
His Phe Leu His Gln Gly Asn Thr Gly Ile Thr Gln Asn Leu Ser Tyr
385      390      395      400
Ile Gly Gly

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<210> 6600

<211> 179

<212> PRT

<213> *Enterobacter cloacae*

<400> 6600

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Ser Gly Phe Arg Arg Asn Gln Lys Met Ser Gln Val Ser Ala Glu Phe
1      5      10      15
Ile Pro Thr Arg Ile Ala Ile Leu Thr Val Ser Glu Arg Arg Gly Glu
20      25      30
Glu Asp Asp Thr Ser Gly His Trp Leu Arg Glu Ala Ala His Glu Ala
35      40      45
Gly His Gln Ile Val Asp Lys Ala Ile Val Lys Glu Asn Arg Tyr Ala
50      55      60
Ile Arg Ala Gln Val Ser Gln Trp Ile Ala Asn Asp Asp Val Gln Val
65      70      75      80
Val Leu Ile Thr Gly Gly Thr Gly Phe Thr Ala Gly Asp Gln Ala Pro
85      90      95
Glu Ala Leu Leu Pro Leu Phe Asp Arg Glu Val Glu Gly Phe Gly Glu
100      105      110
Val Phe Arg Met Leu Ser Phe Glu Glu Ile Gly Thr Ser Thr Leu Gln
115      120      125
Ser Arg Ala Val Ala Gly Val Ala Asn Lys Thr Leu Ile Phe Ala Met
130      135      140
Pro Gly Ser Thr Lys Ala Cys Arg Thr Ala Trp Glu Asn Ile Ile Ala
145      150      155      160
Pro Gln Leu Asp Ala Arg Thr Arg Pro Cys Asn Phe His Pro His Leu
165      170      175
Lys Lys

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<210> 6601
 <211> 163
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6601

Ala	Met	Ser	Gln	Leu	Thr	His	Ile	Asn	Ala	Ala	Gly	Glu	Ala	His	Met
1			5					10					15		
Val	Asp	Val	Ser	Ala	Lys	Ala	Glu	Thr	Val	Arg	Glu	Ala	Arg	Ala	Glu
		20					25					30			
Ala	Phe	Ile	Thr	Met	Leu	Pro	Glu	Thr	Leu	Ala	Met	Ile	Ile	Asp	Gly
	35						40				45				
Ser	His	His	Lys	Gly	Asp	Val	Phe	Ala	Thr	Ala	Arg	Ile	Ala	Gly	Ile
	50				55					60					
Gln	Ala	Ala	Lys	Arg	Thr	Trp	Asp	Leu	Ile	Pro	Leu	Cys	His	Pro	Leu
65				70				75							
Met	Leu	Ser	Lys	Val	Glu	Val	Asn	Leu	Gln	Ala	Gln	Pro	Ala	His	Asn
			85					90				95			
Arg	Val	Arg	Ile	Glu	Ser	Leu	Cys	Arg	Leu	Thr	Gly	Lys	Thr	Gly	Val
			100					105					110		
Glu	Met	Glu	Ala	Leu	Thr	Ala	Ala	Ser	Val	Ala	Ala	Leu	Thr	Ile	Tyr
	115						120				125				
Asp	Met	Cys	Lys	Ala	Val	Gln	Lys	Asp	Met	Val	Ile	Gly	Pro	Val	Arg
	130					135					140				
Leu	Leu	Ala	Lys	Ser	Gly	Gly	Lys	Ser	Gly	Asp	Phe	Lys	Val	Glu	Ser
145					150					155				160	
His	Asp														

<210> 6602
 <211> 237
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6602

Ile	Met	Asp	Arg	Phe	Pro	Arg	Ser	Asp	Ser	Ile	Val	Gln	Gln	Thr	Arg
1			5					10					15		
Ser	Gly	Leu	Gln	Thr	Tyr	Met	Ala	Gln	Val	Tyr	Gly	Trp	Met	Thr	Val
		20					25					30			
Gly	Leu	Leu	Leu	Thr	Ala	Phe	Ile	Ala	Trp	Tyr	Ala	Ala	Asn	Thr	Pro
	35					40					45				
Glu	Leu	Met	Met	Phe	Ile	Phe	Ser	Ser	Lys	Ile	Thr	Phe	Phe	Gly	Leu
	50				55					60					
Ile	Ile	Ala	Gln	Leu	Ala	Leu	Val	Phe	Val	Leu	Ser	Gly	Leu	Val	His
65				70				75						80	
Lys	Leu	Ser	Ser	Gly	Met	Ala	Thr	Thr	Leu	Phe	Met	Leu	Tyr	Ser	Ala
			85					90				95			
Leu	Thr	Gly	Leu	Thr	Leu	Ser	Ser	Ile	Phe	Ile	Val	Tyr	Thr	Tyr	Ser
			100					105				110			
Ser	Ile	Ala	Ser	Thr	Phe	Val	Val	Thr	Gly	Gly	Met	Phe	Gly	Val	Met
	115						120				125				
Ser	Leu	Tyr	Gly	Tyr	Thr	Thr	Lys	Arg	Asp	Leu	Ser	Gly	Phe	Gly	Asn
	130					135					140				
Met	Leu	Phe	Met	Gly	Leu	Ile	Gly	Ile	Val	Leu	Ala	Ser	Leu	Val	Asn
145				150				155						160	
Leu	Trp	Leu	Lys	Ser	Asp	Ala	Leu	Met	Trp	Ala	Val	Thr	Tyr	Ile	Gly
			165					170					175		
Val	Val	Ile	Phe	Val	Gly	Leu	Thr	Ala	Tyr	Asp	Thr	Gln	Lys	Leu	Lys
			180					185				190			
Asn	Ile	Gly	Glu	Gln	Ile	Asp	Val	Arg	Asp	Ser	Ser	Asn	Leu	Arg	Lys
	195						200					205			

Tyr Ser Ile Leu Gly Ala Leu Thr Leu Tyr Leu Asp Phe Ile Asn Leu
 210 215 220
 Phe Leu Met Leu Leu Arg Ile Phe Gly Asn Arg Arg
 225 230 235

<210> 6603

<211> 432

<212> PRT

<213> *Enterobacter cloacae*

<400> 6603

Lys Ala Arg Gly Pro Asn Phe Pro Arg Gly Glu Asn Phe Gly Gly Gln
 1 5 10 15
 Val Ala Asn Pro Phe Ser Gly Gly Gly Glu Phe Pro Gly Gly Ala Asp
 20 25 30
 Phe Gln Thr Arg Cys Phe Lys Gly Val Gly Arg Gly Ser Leu Phe Gly
 35 40 45
 Trp Glu Gly Gly Glu Thr His Thr Gly Gly Trp Ile Arg Gly Arg Ala
 50 55 60
 Phe Phe Arg Gly Tyr Gly Pro Leu Ile Ala Lys Gly Arg Gln Ser Met
 65 70 75 80
 Val Arg Glu Arg Arg Thr Arg Ala Ile Met Gly Leu Pro Val Leu Val
 85 90 95
 Pro Val Val Leu Phe Arg Phe Ala Pro Thr Val Glu Val Thr Thr Ala
 100 105 110
 Thr Phe Ala Ile Tyr Asn Glu Asp Asn Gly Lys His Ser Val Glu Leu
 115 120 125
 Thr Gln Arg Phe Ala Arg Ala Lys Ala Phe Thr His Val Leu Leu Leu
 130 135 140
 Gln Ser Pro Gln Ala Ile Gln Pro Thr Ile Asp Thr Gln Lys Ala Leu
 145 150 155 160
 Leu Leu Val Arg Phe Pro Ala Asp Phe Ser Arg Asn Leu Asp Thr Phe
 165 170 175
 Gln Thr Ala Pro Met Gln Leu Ile Leu Asp Gly Arg Asn Ser Asn Ser
 180 185 190
 Ala Gln Ile Ala Ala Asn Tyr Leu Gln Gln Val Val Lys Asp Tyr Gln
 195 200 205
 Gln Glu Leu Met Asp Gly Lys Pro Lys Pro Asn Asn Ser Glu Leu Val
 210 215 220
 Val Arg Asn Trp Tyr Asn Pro Asn Leu Asp Tyr Lys Trp Phe Val Val
 225 230 235 240
 Pro Ser Leu Ile Ala Met Ile Thr Thr Ile Gly Val Met Ile Val Thr
 245 250 255
 Ser Leu Ser Val Ala Arg Glu Arg Glu Gln Gly Thr Leu Asp Gln Leu
 260 265 270
 Leu Val Ser Pro Leu Ala Thr Trp Gln Ile Phe Val Gly Lys Ala Val
 275 280 285
 Pro Ala Leu Ile Val Ala Thr Phe Gln Ala Thr Ile Val Leu Gly Val
 290 295 300
 Gly Ile Trp Ala Tyr Gln Ile Pro Phe Ala Gly Ser Leu Ala Leu Phe
 305 310 315 320
 Tyr Phe Thr Met Val Ile Tyr Gly Leu Ser Leu Val Gly Phe Gly Leu
 325 330 335
 Leu Ile Ser Ala Leu Cys Ser Thr Gln Gln Gln Ala Phe Ile Gly Val
 340 345 350
 Phe Val Phe Met Met Pro Ala Ile Leu Leu Ser Gly Tyr Val Ser Pro
 355 360 365
 Val Glu Asn Met Pro Val Trp Leu Gln Asp Leu Thr Trp Ile Asn Pro
 370 375 380
 Ile Arg His Phe Thr Asp Ile Thr Lys Gln Ile Tyr Leu Lys Asp Ala
 385 390 395 400

Ser Leu Asp Ile Val Trp Gly Ser Leu Trp Pro Leu Leu Val Ile Ala
 405 410 415
 Ala Thr Thr Gly Ser Val Ala Tyr Ala Met Phe Arg Arg Asn Ile Ala
 420 425 430

<210> 6604

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 6604

Val His Gly Ala Glu Thr Glu Leu Val Glu Arg Gly His Arg Arg Gly
 1 5 10 15
 Gly Val Pro Leu Pro Ala Pro Leu Pro Gly His Gly Gly Leu Ala Ala
 20 25 30
 Arg Ala Tyr Ala Glu Thr Gly Ala Gly Gly Ser Ala Cys Ala Thr Arg
 35 40 45
 Asn Gly Asn Pro Gly Pro Arg Arg Gly Gly Arg Trp Arg Glu Asn Leu
 50 55 60
 Met Ser Lys Ser His Pro Arg Trp Arg Leu Ala Lys Lys Ile Leu Thr
 65 70 75 80
 Trp Leu Phe Phe Ile Ala Val Ala Val Leu Val Val Tyr Ala Gln
 85 90 95
 Lys Val Asp Trp Glu Glu Val Trp Lys Val Ile Arg Asn Tyr Asn Arg
 100 105 110
 Thr Val Leu Leu Gly Ala Val Gly Leu Val Ile Val Ser Tyr Leu Met
 115 120 125
 Tyr Gly Cys Tyr Asp Leu Leu Gly Arg Ala Tyr Cys Gly His Lys Leu
 130 135 140
 Ala Lys Arg Gln Val Met Leu Val Ser Phe Ile Cys Tyr Ala Phe Asn
 145 150 155 160
 Leu Thr Leu Ser Thr Trp Val Gly Gly Ile Gly Met Arg Tyr Arg Leu
 165 170 175
 Tyr Ser Arg Leu Gly Leu Pro Gly Gly Thr Ile Thr Arg Ile Phe Ser
 180 185 190
 Leu Ser Ile Thr Thr Asn Trp Leu Gly Tyr Ile Leu Leu Gly Gly Val
 195 200 205
 Ile Phe Thr Ile Gly Val Val Gln Leu Pro Ala His Trp Tyr Ile Asp
 210 215 220
 Glu Ala Thr Leu Arg Ile Leu Gly Ile Val Leu Leu Ile Ile Ala
 225 230 235 240
 Ala Tyr Leu Trp Ala Cys Ala Phe Ala Lys Arg Arg His Met Thr Ile
 245 250 255
 Lys Gly Gln Lys Leu Val Leu Pro Ser Trp Lys Phe Ala Val Leu Gln
 260 265 270
 Met Val Val Ser Ser Ala Asn Trp Met Ala Met Gly Ala Ile Ile Trp
 275 280 285
 Leu Leu Ile Gly Glu Asp Val Asn Tyr Phe Phe Val Leu Gly Val Leu
 290 295 300
 Leu Val Ser Ser Ile Ala Gly Val Ile Val His Ile Pro Ala Gly Ile
 305 310 315 320
 Gly Val Leu Glu Ala Val Phe Ile Ala Leu Leu Ala Gly Glu His Val
 325 330 335
 Ser His Gly Thr Ile Ile Ala Ala Leu Leu Ala Tyr Arg Met Ile Tyr
 340 345 350
 Tyr Phe Leu Pro Leu Ala Leu Ala Thr Val Cys Tyr Leu Val Leu Glu
 355 360 365
 Ser Arg Ala Lys Lys Leu Arg Ala Lys Asn Glu Lys Ala Met Ala Lys
 370 375 380

<210> 6605
 <211> 306
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6605
 Gly Ile Gly Met Arg Asn Arg Thr Phe Ala Asp Leu Asp Arg Val Val
 1 5 10 15
 Ala Leu Gly Gly Gly His Gly Leu Gly Arg Val Met Ser Ser Leu Ser
 20 25 30
 Ser Leu Gly Ser Arg Leu Thr Gly Ile Val Thr Thr Thr Asp Asn Gly
 35 40 45
 Gly Ser Thr Gly Arg Ile Arg Arg Ala Glu Gly Gly Ile Ala Trp Gly
 50 55 60
 Asp Met Arg Asn Cys Leu Asn Gln Leu Ile Thr Glu Pro Ser Val Ala
 65 70 75 80
 Ser Ala Met Phe Glu Tyr Arg Phe Gly Gly Asn Gly Glu Leu Ser Gly
 85 90 95
 His Asn Leu Gly Asn Leu Met Leu Lys Ala Leu Asp His Leu Ser Val
 100 105 110
 Arg Pro Leu Glu Ala Ile Asn Leu Ile Arg Asn Leu Leu Lys Val Asp
 115 120 125
 Ala Phe Leu Ile Pro Met Ser Glu Gln Pro Val Asp Leu Met Ala Ile
 130 135 140
 Asp Ala Asp Asp His Glu Val Tyr Gly Glu Val Asn Ile Asp Gln Leu
 145 150 155 160
 Leu Leu Pro Pro Lys Glu Leu Met Thr Tyr Pro Ser Val Pro Ala Thr
 165 170 175
 Arg Glu Ala Val Glu Ala Ile Gly Glu Ala Asp Leu Ile Leu Ile Gly
 180 185 190
 Pro Gly Ser Phe Tyr Thr Ser Leu Met Pro Ile Leu Leu Val Lys Glu
 195 200 205
 Leu Ala Gln Ala Leu Arg Arg Thr Pro Ala Pro Met Val Tyr Ile Gly
 210 215 220
 Asn Leu Gly Arg Glu Leu Ser Pro Ala Ala Ala Ser Leu Ser Leu Ala
 225 230 235 240
 Asp Lys Leu Asp Leu Met Glu Gln Tyr Val Gly Lys Lys Ile Ile Asp
 245 250 255
 Gly Val Val Val Gly Pro Lys Val Asp Val Ser Gly Ile Gly Asp Arg
 260 265 270
 Val Val Val Gln Glu Pro Leu Glu Ala Ser Asp Ile Lys Tyr Arg His
 275 280 285
 Asp Arg His Leu Leu Arg Glu Ala Leu Glu Lys Ala Ile Gln Ala Leu
 290 295 300
 Gly
 305

<210> 6606
 <211> 102
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6606
 Ser Pro Arg Lys Val Phe Met Ser Lys Lys Thr Gln His Phe Ser Leu
 1 5 10 15
 Lys Val Leu Thr Ile Asn Ile His Lys Gly Phe Thr Ala Phe Asn Arg
 20 25 30
 Arg Phe Ile Leu Pro Glu Leu Arg Asp Ala Val Arg Thr Val Ser Ala
 35 40 45
 Asp Ile Val Cys Leu Gln Glu Val Met Gly Ala His Glu Val His Pro

50 55 60
 Met His Phe Glu Asn Trp Pro Asp Thr Pro His Tyr Glu Phe Leu Ala
 65 70 75 80
 Asp Thr Met Trp Ser Asp Tyr Ala Tyr Gly Arg Asn Ala Val Tyr Pro
 85 90 95
 Glu Gly Ala Ser Arg
 100

<210> 6607

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 6607

Pro His Leu Arg Lys Lys Cys Pro Arg Gln Gln Pro Asp Gly Ala Gly
 1 5 10 15
 Phe Thr Gln Leu Ala Thr Ser Leu Arg Pro Cys Pro Thr Gln Arg Gly
 20 25 30
 Asp Pro Leu Met Lys Cys Thr Trp Gln Glu Gly Asn Arg Ile Thr Leu
 35 40 45
 Leu Glu Asn Gly Asp Asn Tyr Tyr Pro Ala Val Phe Glu Ala Ile Ser
 50 55 60
 His Ala Gln Gln Lys Val Phe Leu Glu Thr Phe Ile Trp Phe Glu Asp
 65 70 75 80
 Asp Val Gly Arg Gln Leu His Ser Ala Leu Leu His Ala Ala Arg Arg
 85 90 95
 Gly Ile Lys Ile Glu Val Leu Leu Asp Gly Tyr Gly Ser Pro Asp Leu
 100 105 110
 Ser Asp Glu Phe Val Asn Glu Leu Thr Ala Ala Gly Val Val Phe Arg
 115 120 125
 Tyr Tyr Asp Pro Gly Pro Arg Leu Phe Gly Met Arg Thr Asn Leu Phe
 130 135 140
 Arg Arg Met His Arg Lys Ile Val Val Val Asp Glu Thr Val Ala Phe
 145 150 155 160
 Val Gly Gly Ile Asn Tyr Ser Ala Glu His Met Ser Asp Tyr Gly Pro
 165 170 175
 Glu Ala Lys Gln Asp Tyr Ala Ile Arg Ile Glu Gly Pro Val Val Gln
 180 185 190
 Asp Ile Gln Leu Phe Val Leu Glu Asn Leu Pro Gly Lys Glu Ala Ala
 195 200 205
 Arg Arg Trp Trp Arg Arg Arg His Arg Pro Glu Glu Asn Arg Lys Pro
 210 215 220
 Gly Glu Ala Gln Ala Leu Phe Val Trp Arg Asp Asn Glu Glu His Arg
 225 230 235 240
 Asp Asp Ile Glu Arg His Tyr Leu Lys Met Leu Ala Asn Ala Lys Arg
 245 250 255
 Glu Val Ile Ile Ala Asn Ala Tyr Phe Phe Pro Gly Tyr Arg Ile Leu
 260 265 270
 His Ala Met Arg Asn Ala Ala Arg Arg Gly Val Ser Val Lys Leu Ile
 275 280 285
 Val Gln Gly Glu Pro Asp Met Pro Ile Val Lys Val Gly Ala Arg Leu
 290 295 300
 Leu Tyr Arg Tyr Leu Val Lys Ser Gly Val Gln Ile Tyr Glu Tyr Arg
 305 310 315 320
 Arg Arg Pro Leu His Gly Lys Val Ala Val Met Asp Asp His Trp Ala
 325 330 335
 Thr Val Gly Ser Ser Asn Leu Asp Pro Leu Ser Leu Ser Leu Asn Leu
 340 345 350
 Glu Ala Asn Leu Ile Ile His Asp Arg Gln Phe Asn His Thr Leu Arg
 355 360 365
 Asp Asn Leu Gln Gly Leu Ile Asn Lys Asp Cys Val Arg Val Asp Glu

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      370          375          380
Ser Met Val Pro Lys Arg Ser Trp Trp Asn Val Gly Ile Gly Val Val
385          390          395          400
Val Phe His Phe Leu Arg His Phe Pro Ala Met Val Gly Trp Leu Pro
      405          410          415
Ala His Thr Pro Lys Leu Ala Leu Val Asp Pro Pro Val Gln Pro Glu
      420          425          430
Met Glu Thr Thr Gln Asp Arg Val Glu Ala Glu Asp Gly Gly Lys Thr
      435          440          445

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<210> 6608
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

```

<400> 6608
Thr Phe Ile Arg Ala Ser Gln His Leu Thr Ala Ala Ser Phe Tyr Arg
1          5          10          15
Ser Cys Ala Thr Arg Tyr Ala Pro Ser Ala Pro Ile Leu Ser Ala Ser
      20          25          30
Arg Arg Ser Trp Ala Arg Met Lys Cys Thr Arg Cys Ile Ser Lys Thr
      35          40          45
Gly Pro Thr Arg Pro Thr Thr Ser Phe Trp Arg Ile Pro Cys Gly Ala
      50          55          60
Ile Thr Pro Thr Gly Ala Met Arg Ser Thr Arg Arg Gly His His Gly
65          70          75          80
Asn Ala Val Leu Ser Arg Phe Pro Ile Glu His Tyr Glu Asn Arg Asp
      85          90          95
Val Ser Val Gly Glu Ser Glu Lys Arg Gly Leu Leu Tyr Cys Arg Ile
      100          105          110
Thr Pro Pro Glu Leu Asp Phe Pro Ile His Val Gly Cys Val His Leu
      115          120          125
Gly Leu Arg Glu Ala His Arg Gln Ala Gln Leu Gln Met Leu Ala Asp
      130          135          140
Trp Thr Asn Ala Leu Pro Glu Gly Glu Pro Val Val Val Ala Gly Asp
145          150          155          160
Phe Asn Asp Trp Arg Gln Arg Ala Asn His Pro Leu Lys Val Asn Ala
      165          170          175
Gly Leu Glu Glu Ile Phe Thr Arg Ala Arg Gly Arg Pro Ala Arg Thr
      180          185          190
Phe Pro Val Arg Phe Pro Leu Leu Arg Leu Asp Arg Ile Tyr Val Lys
195          200          205
Asn Ala His Ala Ser Ser Pro Thr Ala Leu Ala Leu Leu Asn Trp Arg
      210          215          220
His Leu Ser Asp His Ala Pro Leu Ser Ala Glu Ile His Leu
225          230          235

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<210> 6609
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

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<400> 6609
Lys Ser Pro Val Thr Glu Thr Ser Ile Met Asn Ser Lys Arg Tyr Glu
1          5          10          15
Arg Ile Cys Glu Met Leu Ala Arg Arg Gln Pro Asp Leu Thr Val Cys
      20          25          30
Met Glu Gln Val His Lys Pro His Asn Val Ser Ala Ile Val Arg Thr
      35          40          45
Ala Asp Ala Val Gly Val His Glu Val His Ala Val Trp Pro Gly Ala
      50          55          60

```

Arg Met Arg Thr Met Ala Ser Thr Ala Ala Gly Ser Asn Ser Trp Val
 65 70 75 80
 Ser Val Lys Thr His Gln Thr Ile Gly Glu Ala Val Ser His Leu Lys
 85 90 95
 Gly Arg Gly Met Gln Val Leu Ala Thr Asn Leu Ser Ala Lys Ala Val
 100 105 110
 Asp Phe Arg Glu Ile Asp Tyr Thr Arg Pro Thr Cys Ile Leu Met Gly
 115 120 125
 Gln Glu Lys Thr Gly Ile Thr Gln Glu Ala Leu Asp Leu Ala Asp Arg
 130 135 140
 Asp Ile Ile Ile Pro Met Ile Gly Met Val Gln Ser Leu Asn Val Ser
 145 150 155 160
 Val Ala Ser Ala Leu Ile Leu Tyr Glu Ala Gln Arg Gln Arg Gln Asn
 165 170 175
 Ala Gly Met Tyr Glu Arg Ser Asn Ser Met Leu Pro Glu Glu Glu Gln
 180 185 190
 Gln Arg Leu Leu Phe Glu Gly Gly Tyr Pro Val Leu Ala Arg Val Ala
 195 200 205
 Lys Gln Lys Lys Leu Pro Tyr Pro His Val Asn Ala Gln Gly Glu Ile
 210 215 220
 Glu Ala Asp Ala Glu Trp Trp Ser Thr Met Gln Tyr Ala Gly
 225 230 235

<210> 6610

<211> 695

<212> PRT

<213> Enterobacter cloacae

<400> 6610

Ile Met Lys Gly Arg Leu Leu Asp Ala Ile Pro Leu Asn Ser Leu Thr
 1 5 10 15
 Gly Val Gly Ala Ala Gln Ser Ser Lys Leu Ala Lys Ile Gly Leu His
 20 25 30
 Thr Val Gln Asp Leu Leu Leu His Leu Pro Leu Arg Tyr Glu Asp Arg
 35 40 45
 Thr Gln Leu Tyr Lys Ile Gly Asp Leu Leu Pro Ala Ile Tyr Ala Thr
 50 55 60
 Val Glu Gly Glu Val Leu Asn Cys Asn Ile Thr Phe Gly Gly Arg Arg
 65 70 75 80
 Met Met Thr Cys Gln Ile Ser Asp Gly Thr Gly Ile Leu Thr Leu Arg
 85 90 95
 Phe Phe Asn Phe Asn Ala Ala Met Lys Asn Ser Leu Ala Thr Gly Arg
 100 105 110
 Arg Val Leu Ala Tyr Gly Glu Ala Lys Arg Gly Lys Tyr Gly Ala Glu
 115 120 125
 Met Ile His Pro Glu Tyr Arg Val Gln Gly Asp Leu Ser Ser Pro Glu
 130 135 140
 Leu Gln Glu Thr Leu Thr Pro Val Tyr Pro Thr Thr Glu Gly Ile Lys
 145 150 155 160
 Gln Ala Thr Leu Arg Lys Leu Thr Asp Gln Ala Leu Glu Leu Leu Asp
 165 170 175
 Thr Cys Ala Ile Asn Glu Leu Leu Pro Pro Glu Leu Ala Gln Gly Met
 180 185 190
 Met Ser Leu Pro Glu Ala Leu Arg Thr Leu His Arg Pro Pro Pro Thr
 195 200 205
 Leu Gln Leu Val Asp Leu Glu Ser Gly Lys His Pro Ala Gln Arg Arg
 210 215 220
 Leu Ile Leu Glu Glu Leu Leu Ala His Asn Leu Ser Met Leu Ala Leu
 225 230 235 240
 Arg Ala Gly Ala Gln Arg Phe His Ala Gln Pro Leu Ser Gln Arg Asp
 245 250 255

Glu Leu Lys Asp Lys Leu Leu Ala Ser Leu Pro Phe Lys Pro Thr Gly
 260 265 270
 Ala Gln Ala Arg Val Thr Ala Glu Ile Glu Arg Asp Met Ala Leu Asp
 275 280 285
 Val Pro Met Met Arg Leu Val Gln Gly Asp Val Gly Ser Gly Lys Thr
 290 295 300
 Leu Val Ala Ala Leu Ala Ala Leu Arg Ala Ile Ala His Gly Lys Gln
 305 310 315 320
 Val Ala Leu Met Ala Pro Thr Glu Leu Leu Ala Glu Gln His Ala Asn
 325 330 335
 Asn Phe Arg Asn Trp Phe Ala Pro Leu Gly Ile Glu Val Gly Trp Leu
 340 345 350
 Ala Gly Lys Gln Lys Gly Lys Ala Arg Leu Ala Gln Gln Glu Ala Ile
 355 360 365
 Ala Ser Gly Gln Val Gln Met Ile Val Gly Thr His Ala Ile Phe Gln
 370 375 380
 Glu Gln Val Gln Phe Asn Gly Leu Ala Leu Val Ile Ile Asp Glu Gln
 385 390 395 400
 His Arg Phe Gly Val His Gln Arg Leu Ala Leu Trp Glu Lys Gly Leu
 405 410 415
 Gln Gln Gly Phe His Pro His Gln Leu Ile Met Thr Ala Thr Pro Ile
 420 425 430
 Pro Arg Thr Leu Ala Met Thr Ala Tyr Ala Asp Leu Asp Thr Ser Thr
 435 440 445
 Ile Asp Glu Leu Pro Pro Gly Arg Thr Pro Val Thr Thr Val Ala Ile
 450 455 460
 Pro Asp Thr Arg Arg Ser Asp Ile Ile Asp Arg Val Arg Asn Ala Cys
 465 470 475 480
 Thr His Glu Gly Arg Gln Ala Tyr Trp Val Cys Thr Leu Ile Glu Glu
 485 490 495
 Ser Glu Leu Leu Glu Ala Gln Ala Ala Glu Ala Thr Trp Glu Glu Leu
 500 505 510
 Lys Leu Ala Leu Pro Glu Leu Asn Val Gly Leu Val His Gly Arg Met
 515 520 525
 Lys Pro Ala Glu Lys Gln Ala Val Met Gln Ser Phe Lys Gln Gly Glu
 530 535 540
 Leu His Leu Leu Val Ala Thr Thr Val Ile Glu Val Gly Val Asp Val
 545 550 555 560
 Pro Asn Ser Ser Leu Met Ile Ile Glu Asn Pro Glu Arg Leu Gly Leu
 565 570 575
 Ala Gln Leu His Gln Leu Arg Gly Arg Val Gly Arg Gly Ala Ile Ala
 580 585 590
 Ser His Cys Val Leu Leu Tyr Lys Ala Pro Leu Ser Lys Thr Ala Gln
 595 600 605
 Met Arg Leu Gln Val Leu Arg Asp Ser Asn Asp Gly Phe Val Ile Ala
 610 615 620
 Gln Lys Asp Leu Glu Ile Arg Gly Pro Gly Glu Leu Leu Gly Thr Arg
 625 630 635 640
 Gln Thr Gly Asn Ala Glu Phe Lys Val Ala Asp Leu Leu Arg Asp Gln
 645 650 655
 Ala Met Ile Pro Glu Val Gln Arg Leu Ala Arg His Ile His Glu Arg
 660 665 670
 Tyr Pro Glu Gln Ala Ala Leu Ile Glu Arg Trp Met Pro Glu Thr
 675 680 685
 Glu Arg Tyr Ser Asn Ala
 690 695

<210> 6611

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 6611

Asn Ala Arg Phe Ser Thr Val Gly Leu Pro Pro Met Ser Val Asn Thr
 1 5 10 15
 Leu Glu Ser Ala Asp Ala Gln Pro Ile Ala Gln Lys Gln Asn Ser Glu
 20 25 30
 Leu Ile Tyr Arg Leu Glu Asp Arg Pro Leu Pro Gln Thr Leu Phe
 35 40 45
 Ala Ala Cys Gln His Leu Leu Ala Met Phe Val Ala Val Ile Thr Pro
 50 55 60
 Ala Leu Leu Ile Cys Gln Ala Leu Gly Leu Pro Ala Gln Asp Thr Gln
 65 70 75 80
 His Ile Ile Ser Met Ser Leu Phe Ala Ser Gly Val Ala Ser Ile Ile
 85 90 95
 Gln Ile Lys Ala Trp Gly Pro Val Gly Ser Gly Leu Leu Ser Ile Gln
 100 105 110
 Gly Thr Ser Phe Asn Phe Val Ala Pro Leu Ile Met Gly Gly Thr Ala
 115 120 125
 Leu Lys Thr Gly Gly Ala Asp Val Pro Thr Met Met Ala Ala Leu Phe
 130 135 140
 Gly Thr Leu Met Leu Ala Ser Cys Thr Glu Met Ile Ile Ser Arg Val
 145 150 155 160
 Leu His Leu Ala Arg Arg Val Ile Thr Pro Leu Val Ser Gly Val Val
 165 170 175
 Val Met Ile Ile Gly Leu Ser Leu Ile Gln Val Gly Leu Thr Ser Ile
 180 185 190
 Gly Gly Gly Tyr Ala Ala Met Ser Asp His Thr Phe Gly Ala Pro Lys
 195 200 205
 Asn Leu Leu Leu Ala Gly Val Val Leu Ala Ile Ile Ile Leu Leu Asn
 210 215 220
 Arg Gln Arg Asn Pro Tyr Leu Arg Val Ala Ser Leu Val Ile Ala Met
 225 230 235 240
 Ala Ala Gly Tyr Leu Leu Ala Trp Ala Leu Gly Met Leu Pro Glu Asn
 245 250 255
 Thr Thr Pro Thr Asn Ser Ala Leu Ile Thr Val Pro Thr Pro Leu Tyr
 260 265 270
 Tyr Gly Leu Gly Ile Asp Trp Ser Leu Leu Leu Pro Leu Met Leu Val
 275 280 285
 Phe Met Ile Thr Ser Leu Glu Thr Ile Gly Asp Ile Thr Ala Thr Ser
 290 295 300
 Asp Val Ser Glu Gln Pro Val Ser Gly Pro Leu Tyr Met Lys Arg Leu
 305 310 315 320
 Lys Gly Gly Val Leu Ala Asn Gly Leu Asn Ser Phe Val Ser Ala Val
 325 330 335
 Phe Asn Thr Phe Pro Asn Ser Cys Phe Gly Gln Asn Asn Gly Val Ile
 340 345 350
 Gln Leu Thr Gly Val Ala Ser Arg Tyr Val Gly Phe Val Val Ala Leu
 355 360 365
 Met Leu Val Val Leu Gly Leu Phe Pro Ala Val Ser Gly Phe Val Gln
 370 375 380
 His Ile Pro Glu Pro Val Leu Gly Gly Ala Thr Leu Val Met Phe Gly
 385 390 395 400
 Thr Ile Ala Ala Ser Gly Val Arg Ile Val Ser Arg Glu Pro Leu Asn
 405 410 415
 Arg Arg Ala Ile Met Ile Ile Ala Leu Ser Leu Ala Val Gly Leu Gly
 420 425 430
 Val Ser Gln Gln Pro Met Ile Leu Gln Phe Ala Pro Asp Trp Val Lys
 435 440 445
 Asn Leu Leu Ser Ser Gly Ile Ala Ala Gly Gly Ile Thr Ala Ile Val
 450 455 460
 Leu Asn Leu Ile Phe Pro Pro Glu Lys Asn

465

470

475

<210> 6612

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 6612

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Thr His Phe Gln Tyr His Ala Gln Ser Phe Leu His Leu Trp Ser Ile
1          5          10          15
Leu Ser Met Ala Arg Val Thr Val Gln Asp Ala Val Lys Lys Ile Gly
20          25          30
Asn Arg Phe Asp Leu Val Leu Val Ala Ala Arg Arg Ala Arg Gln Met
35          40          45
Gln Val Gly Gly Lys Asp Pro Leu Val Pro Glu Glu Asn Asp Lys Thr
50          55          60
Thr Val Ile Ala Leu Arg Glu Ile Glu Glu Gly Leu Ile Asn Asn Gln
65          70          75          80
Ile Leu Asp Val Arg Glu Arg Gln Glu Gln Gln Glu Glu Ala Ala
85          90          95
Glu Leu Gln Ala Val Thr Ala Ile Ala Glu Gly Arg Arg
100          105          110

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<210> 6613

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 6613

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His Pro Tyr Val Arg Phe Ala Gly Arg Lys Thr Met Lys Phe Ile Gly
1          5          10          15
Lys Leu Leu Ile Tyr Leu Leu Val Ala Leu Leu Ile Val Val Leu Ala
20          25          30
Phe Tyr Phe Leu Leu Gln Thr Arg Trp Gly Ala Ser Gln Val Ser Ser
35          40          45
Trp Ile Thr Val Asn Thr Asp Tyr Glu Leu Asn Phe Asp Leu Met Asp
50          55          60
His Arg Phe Ser Ser Pro Ser His Ile Leu Leu Glu Asn Val Thr Phe
65          70          75          80
Gly Arg Asp Gly Lys Pro Ala Thr Leu Val Ala Lys Lys Val Asp Ile
85          90          95
Gly Leu Ser Ser Arg Gln Ile Thr Asp Pro Leu His Met Asp Ala Ile
100          105          110
Thr Leu Phe Asp Gly Thr Leu Asn Leu Ser Pro Gln Thr Ala Pro Leu
115          120          125
Pro Phe Gln Ala Asp Arg Leu Gln Leu Asn Asn Met Ala Phe Asn Ser
130          135          140
Pro Asn Thr Glu Trp Asp Leu Ser Ala Gln Lys Val Thr Gly Gly Val
145          150          155          160
Ser Pro Trp Gln Pro Glu Ala Gly Asn Val Leu Gly Lys Asn Ala Gln
165          170          175          180
Ile Gln Met Ser Ala Gly Ser Leu Thr Leu Asn Gly Ile Pro Ala Asn
180          185          190
Asn Val Leu Ile Gln Gly Gln Leu Asn Gly Lys Glu Val Ala Leu Asn
195          200          205
Thr Ile Gly Ala Asp Met Ala Arg Gly Ser Leu Thr Gly Ser Ala Leu
210          215          220
Arg Asn Ala Asp Gly Gly Trp Val Ile Asn Thr Leu Arg Leu Asn Glu
225          230          235          240
Ile Arg Leu Gln Ser Asp Lys Ser Leu Leu Asp Phe Phe Ala Pro Leu
245          250          255

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Ser Thr Leu Pro Ser Leu Gln Ile Gly Arg Leu Glu Val Thr Asp Ala
 260 265 270
 Arg Leu Gln Gly Pro Asp Trp Ala Val Thr Asp Leu Asp Leu Ser Leu
 275 280 285
 Arg Asn Leu Thr Leu Ser Lys Gly Asp Trp Gln Ser Gln Glu Gly Arg
 290 295 300
 Leu Ser Met Asn Ala Ser Glu Phe Ile Tyr Gly Ser Leu His Leu Phe
 305 310 315 320
 Asp Pro Ile Leu Asn Ala Glu Phe Ser Pro Gln Gly Ile Ala Leu Arg
 325 330 335
 Gln Phe Thr Ser Arg Trp Glu Gly Gly Met Val Arg Thr Ser Gly Asn
 340 345 350
 Trp Leu Arg Glu Gly Gln Ala Leu Val Leu Asp Asp Val Ala Ile Ala
 355 360 365
 Gly Leu Glu Tyr Thr Leu Pro Glu Asn Trp Lys Thr Leu Trp Met Asp
 370 375 380
 Pro Leu Pro Ala Trp Leu Asn Ser Val Thr Leu Lys Lys Phe Gly Leu
 385 390 395 400
 Ser Arg Asn Leu Val Ile Asp Ile Asp Pro Ala Phe Pro Trp Gln Ile
 405 410 415
 Thr Ser Leu Asp Gly Tyr Gly Ala Asn Leu Arg Leu Ala Gln Asp His
 420 425 430
 Lys Trp Gly Val Trp Gly Gly Asn Ala Thr Leu Asn Gly Ala Ala Ala
 435 440 445
 Thr Phe Asn Arg Val Asp Val Arg Arg Pro Ser Leu Ala Leu Asn Ala
 450 455 460
 Asn Ala Ala Thr Val Asn Ile Thr Asp Leu Ser Ala Phe Thr Glu Lys
 465 470 475 480
 Gly Ile Leu Glu Ala Thr Ala Thr Val Ser Gln Leu Pro Gln Arg Gln
 485 490 495
 Thr Thr Val Ser Leu Asn Gly Arg Gly Val Pro Leu Asn Val Leu Gln
 500 505 510
 Gln Trp Gly Trp Pro Ala Leu Pro Ile Ala Gly Asp Gly Asn Ile Gln
 515 520 525
 Leu Thr Ala Ser Gly Ser Val Gln Ala Asn Ala Pro Leu Lys Pro Thr
 530 535 540
 Val Asn Gly Lys Leu Ser Ala Val Asn Met Asp Lys Gln Gln Val Gln
 545 550 555 560
 Gln Thr Met Thr Gly Gly Val Val Ser Thr Val Ala Pro Ala Gln
 565 570 575

<210> 6614

<211> 710

<212> PRT

<213> Enterobacter cloacae

<400> 6614

Thr Cys Gly Ser Pro Leu Tyr Leu Phe Glu Ser Leu Asn Gln Leu Ile
 1 5 10 15
 Gln Thr Tyr Leu Pro Glu Asp Gln Ile Lys Arg Leu Gln Ala Tyr
 20 25 30
 Leu Val Ala Arg Asp Ala His Glu Gly Gln Thr Arg Ser Ser Gly Glu
 35 40 45
 Pro Tyr Ile Thr His Pro Val Ala Val Ala Cys Ile Leu Ala Glu Met
 50 55 60
 Lys Leu Asp Tyr Glu Thr Leu Met Ala Ala Leu Leu His Asp Val Ile
 65 70 75 80
 Glu Asp Thr Pro Ala Thr Tyr Gln Asp Met Glu Gln Leu Phe Gly Lys
 85 90 95
 Ser Val Ala Glu Leu Val Glu Gly Val Ser Lys Leu Asp Lys Leu Lys
 100 105 110

Phe Arg Asp Lys Lys Glu Ala Gln Ala Glu Asn Phe Arg Lys Met Ile
 115 120 125
 Met Ala Met Val Gln Asp Ile Arg Val Ile Leu Ile Lys Leu Ala Asp
 130 135 140
 Arg Thr His Asn Met Arg Thr Leu Gly Ser Leu Arg Pro Asp Lys Arg
 145 150 155 160
 Arg Arg Ile Ala Arg Glu Thr Leu Glu Ile Tyr Ser Pro Leu Ala His
 165 170 175
 Arg Leu Gly Ile His His Ile Lys Thr Glu Leu Glu Glu Leu Gly Phe
 180 185 190
 Glu Ala Leu Tyr Pro Asn Arg Tyr Arg Val Ile Lys Glu Val Val Lys
 195 200 205
 Ala Ala Arg Gly Asn Arg Lys Glu Met Ile Gln Lys Ile Leu Ser Glu
 210 215 220
 Ile Glu Gly Arg Leu Gln Glu Ala Gly Ile Pro Cys Arg Val Ser Gly
 225 230 235 240
 Arg Glu Lys His Leu Tyr Ser Ile Tyr Cys Lys Met Val Leu Lys Glu
 245 250 255
 Gln Arg Phe His Ser Ile Met Asp Ile Tyr Ala Phe Arg Val Ile Val
 260 265 270
 His Asp Ser Asp Thr Cys Tyr Arg Val Leu Gly Gln Met His Ser Leu
 275 280 285
 Tyr Lys Pro Arg Pro Gly Arg Val Lys Asp Tyr Ile Ala Ile Pro Lys
 290 295 300
 Ala Asn Gly Tyr Gln Ser Leu His Thr Ser Met Ile Gly Pro His Gly
 305 310 315 320
 Val Pro Val Glu Val Gln Ile Arg Thr Glu Asp Met Asp Gln Met Ala
 325 330 335
 Glu Met Gly Val Ala Ala His Trp Ala Tyr Lys Glu His Gly Gly Glu
 340 345 350
 Ser Ser Thr Thr Ala Gln Ile Arg Ala Gln Arg Trp Met Gln Ser Leu
 355 360 365
 Leu Glu Leu Gln Gln Ser Ala Gly Ser Ser Phe Glu Phe Ile Glu Ser
 370 375 380
 Val Lys Ser Asp Leu Phe Pro Asp Glu Ile Tyr Val Phe Thr Pro Glu
 385 390 395 400
 Gly Arg Ile Val Glu Leu Pro Ala Gly Ala Thr Pro Val Asp Phe Ala
 405 410 415
 Tyr Ala Val His Thr Asp Ile Gly His Ala Cys Val Gly Ala Arg Val
 420 425 430
 Asp Arg Gln Pro Tyr Pro Leu Ser Gln Pro Leu Phe Ser Gly Gln Thr
 435 440 445
 Val Glu Ile Ile Thr Ala Pro Gly Ala Arg Pro Asn Ala Ala Trp Leu
 450 455 460
 Asn Phe Val Val Ser Ser Lys Ala Arg Ala Lys Ile Arg Gln Leu Leu
 465 470 475 480
 Lys Asn Leu Lys Arg Asp Asp Ser Val Ser Leu Gly Arg Arg Leu Leu
 485 490 495
 Asn His Ala Leu Gly Gly Ser Arg Lys Leu Ala Glu Ile Pro Pro Glu
 500 505 510
 Asn Ile Gln His Glu Leu Glu Arg Met Lys Leu Ala Ser Leu Asp Asp
 515 520 525
 Leu Leu Ala Glu Ile Gly Leu Gly Asn Ala Met Ser Val Val Val Ala
 530 535 540
 Lys Asn Leu Gln Gln Gly Glu Thr Thr Ala Val Pro Ala Thr Thr Gln
 545 550 555 560
 Asn His Gly His Leu Pro Ile Lys Gly Ala Asp Gly Val Leu Ile Thr
 565 570 575
 Phe Ala Lys Cys Cys Arg Pro Ile Pro Gly Asp Pro Ile Ile Ala His
 580 585 590
 Val Ser Pro Gly Lys Gly Leu Val Ile His His Glu Ser Cys Arg Asn

595 600 605
 Ile Arg Gly Tyr Gln Lys Glu Pro Glu Lys Phe Met Ala Val Glu Trp
 610 615 620
 Asp Lys Glu Thr Ala Gln Glu Phe Ile Thr Glu Ile Lys Val Asp Met
 625 630 635 640
 Phe Asn His Gln Gly Ala Leu Ala Asn Leu Thr Ala Ala Ile Asn Thr
 645 650 655
 Ala Ser Ser Asn Ile Gln Ser Leu Asn Thr Glu Glu Lys Asp Gly Arg
 660 665 670
 Val Tyr Ser Ala Phe Ile Arg Leu Thr Ala Arg Asp Arg Val His Leu
 675 680 685
 Ala Asn Ile Met Arg Lys Ile Arg Val Met Pro Asp Val Ile Lys Val
 690 695 700
 Thr Arg Asn Arg Asn
 705 710

<210> 6615

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 6615

Gln Glu Pro Phe Met Ile His Leu Asp Thr Leu Ser Thr Leu Val Ala
 1 5 10 15
 Ala Thr Leu Val Leu Leu Gly Arg Lys Leu Val His Ser Val Ser
 20 25 30
 Phe Leu Lys Lys Tyr Thr Ile Pro Glu Pro Val Ala Gly Gly Leu Leu
 35 40 45
 Val Ala Leu Ala Leu Leu Ile Leu Lys Lys Ser Met Gly Trp Glu Ile
 50 55 60
 Asp Phe Asp Met Ser Leu Lys Asp Pro Leu Met Leu Ala Phe Phe Ala
 65 70 75 80
 Thr Ile Gly Leu Asn Ala Asn Leu Ala Ser Leu Arg Ser Gly Gly Lys
 85 90 95
 Val Leu Gly Val Phe Leu Ile Val Val Val Gly Leu Leu Leu Met Gln
 100 105 110
 Asn Ala Ile Gly Ile Gly Met Ala Ser Leu Leu Gly Leu Asp Pro Leu
 115 120 125
 Met Gly Leu Leu Ala Gly Ser Ile Thr Leu Ser Gly Gly His Gly Thr
 130 135 140
 Gly Ala Ala Trp Ser Lys Leu Phe Ile Glu Arg Tyr Gly Phe Glu Asn
 145 150 155 160
 Ala Thr Glu Val Ala Met Ala Cys Ala Thr Phe Gly Leu Val Leu Gly
 165 170 175
 Gly Leu Ile Gly Gly Pro Val Ala Arg Tyr Leu Val Lys His Ser Thr
 180 185 190
 Thr Pro Glu Gly Arg Pro Asp Asp Glu Met Val Pro Thr Ala Phe Glu
 195 200 205
 Lys Pro Asp Val Gly Arg Ser Ile Thr Ser Leu Val Met Ile Glu Thr
 210 215 220
 Ile Ala Met Ile Ala Ile Cys Leu Thr Val Gly Lys Ile Val Ala Gln
 225 230 235 240
 Trp Leu Ala Gly Thr Ala Phe Glu Leu Pro Thr Phe Val Cys Val Leu
 245 250 255
 Phe Ile Gly Val Ile Leu Ser Asn Gly Leu Ala Gln Met Gly Phe Tyr
 260 265 270
 Arg Val Phe Glu Arg Ala Val Ser Val Leu Gly Asn Val Ser Leu Ser
 275 280 285
 Leu Phe Leu Ala Met Ala Leu Met Ser Leu Lys Leu Trp Glu Leu Ala
 290 295 300
 Ser Leu Ala Leu Pro Met Val Ala Ile Leu Ala Val Gln Ala Val Phe

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305          310          315          320
Met Ala Leu Tyr Ala Ile Phe Val Thr Trp Arg Met Met Gly Lys Asn
          325          330          335
Tyr Asp Ala Ala Val Leu Ala Ala Gly His Cys Gly Phe Gly Leu Gly
          340          345          350
Ala Thr Pro Thr Ala Ile Ala Asn Met Gln Ala Ile Thr Glu Arg Phe
          355          360          365
Gly Pro Ser His Met Ala Phe Leu Val Val Pro Met Val Gly Ala Phe
          370          375          380
Phe Ile Asp Ile Val Asn Ala Leu Val Ile Lys Leu Tyr Leu Met Leu
          385          390          395          400
Pro Met Phe Gly
          405

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<210> 6616

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6616

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Ala His Asp Lys Val Gln Pro Gly Gly Val Arg Thr Cys Pro Arg Arg
1          5          10          15
Gly Asn Asp Leu His Arg Leu Ser Ala Glu Lys Arg Leu Arg Gln Arg
          20          25          30
Ile Arg Leu Pro Val Asp Ala Gly Thr Tyr Ala Gly Val Ala Asp Ile
          35          40          45
Gly Met His Gly Val Ser Glu Val Asp Arg Cys Arg Ala Arg Arg Gln
          50          55          60
Phe Asp Asn Ala Pro Phe Arg Arg Glu Asn Val Asn Leu Ile Arg Glu
          65          70          75          80
Glu Ile Gly Phe Asn Ala Leu Asp Lys Phe Lys Arg Ala Thr Cys Ala
          85          90          95
Leu Leu Gln Leu Gln Gln Ala Leu His Pro Ala Leu Gly Ala Asp Leu
          100          105          110
Arg Gly Gly Ala Ala Phe Ala Ala Val Leu Phe Val Ser Pro Val Arg
          115          120          125
Arg Asp Thr His Leu Arg His Leu Ile His Ile Phe Gly Thr Asn Leu
          130          135          140
His Leu Asn Arg Asp Thr Val Arg Ala Asn His Gly Gly Val Gln Arg
          145          150          155          160
Leu Ile Ser Val Arg Phe Trp Asn Gly Asp Val Ile Phe Asp Ala Pro
          165          170          175
Arg Thr Arg Leu Val Gln Ala Val His Leu Pro Gln His Ala Ile Thr
          180          185          190
Gly Val
          195

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<210> 6617

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 6617

```

Val Met Ala Asn Ile Glu Ile Tyr Thr Lys Ala Thr Cys Pro Phe Cys
1          5          10          15
His Arg Ala Lys Ala Leu Leu Ser Ser Lys Gly Val Thr Phe Lys Gly
          20          25          30
Leu Pro Ile Asp Gly Asp Ala Ile Lys Arg Glu Glu Met Ile Gln Arg
          35          40          45
Ser Gly Arg Thr Thr Val Pro Gln Ile Phe Ile Asp Ala Gln His Ile
          50          55          60

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Gly Gly Cys Asp Asp Leu Tyr Ala Leu Asp Ala Arg Gly Gly Leu Asp
 65 70 75 80
 Pro Leu Leu Ser
 85

<210> 6618

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 6618

Cys Ala Val His Glu Leu Ser Thr Ala Ala Gly Trp Arg Arg Cys Arg
 1 5 10 15
 Thr Thr Ser Gly Cys Leu Met Ser Thr Val Asn Ala Ser Met Thr Val
 20 25 30
 Ile Gly Ala Gly Ser Tyr Gly Thr Ala Leu Ala Ile Thr Leu Ala Arg
 35 40 45
 Asn Gly His Asp Val Val Leu Trp Gly His Asp Pro Lys His Ile Ala
 50 55 60
 Thr Leu Gln His Asp Arg Cys Asn Val Ala Phe Leu Pro Asp Val Pro
 65 70 75 80
 Phe Pro Asp Ser Leu Tyr Leu Glu Ser Asp Leu Ala Thr Ala Leu Ala
 85 90 95
 Val Ser Arg Asn Ile Leu Ile Val Val Pro Ser His Val Phe Gly Glu
 100 105 110
 Val Leu Arg Gln Ile Lys Pro Leu Met Arg Ala Asp Ala Arg Ile Val
 115 120 125
 Trp Ala Thr Lys Gly Leu Glu Ala Glu Thr Gly Arg Leu Leu Gln Asp
 130 135 140
 Val Ala Arg Glu Ala Leu Gly Thr Ala Ile Pro Leu Ala Val Ile Ser
 145 150 155 160
 Gly Pro Thr Phe Ala Lys Glu Leu Ala Ala Gly Leu Pro Thr Ala Ile
 165 170 175
 Ser Leu Ala Ser Thr Asp Gln Ala Phe Ser Asp Asp Leu Gln Gln Leu
 180 185 190
 Leu His Cys Gly Lys Ser Phe Arg Val Tyr Ser Asn Pro Asp Phe Ile
 195 200 205
 Gly Val Gln Leu Gly Gly Ala Val Lys Asn Val Ile Ala Ile Gly Ala
 210 215 220
 Gly Met Ser Asp Gly Ile Gly Phe Gly Ala Asn Ala Arg Thr Ala Leu
 225 230 235 240
 Ile Thr Arg Gly Leu Thr Glu Met Ser Arg Leu Gly Glu Ala Leu Gly
 245 250 255
 Ala Asp Pro Ala Thr Phe Met Gly Met Ala Gly Leu Gly Asp Leu Val
 260 265 270
 Leu Thr Cys Thr Asp Asn Gln Ser Arg Asn Arg Arg Phe Gly Met Met
 275 280 285
 Leu Gly Gln Gly Ser Asp Val Lys Ser Ala Gln Glu Lys Ile Gly Gln
 290 295 300
 Val Val Glu Gly Tyr Arg Asn Thr Lys Glu Val Arg Glu Leu Ala His
 305 310 315 320
 Arg Phe Gly Val Glu Met Pro Ile Thr Glu Glu Ile Tyr Gln Val Leu
 325 330 335
 Tyr Cys Gly Lys Asn Ala Arg Glu Ala Ala Leu Thr Leu Leu Gly Arg
 340 345 350
 Ala Arg Lys Asp Glu Arg Ser Ser Asn
 355 360

<210> 6619

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 6619

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Met Thr Gln Pro Ala Gln Asn Trp Leu Val Ile Asn Tyr Arg Leu Glu
1      5      10      15
Gln Ala Met Pro Cys Glu Glu Leu Asp Ile Val Trp Asn Asn Ile Lys
      20      25      30
Ala Glu Ala Arg Ala Leu Ala Asp Cys Glu Pro Met Leu Ala Ser Phe
      35      40      45
Tyr His Ala Thr Leu Leu Lys His Glu Asn Leu Gly Ser Ala Leu Ser
      50      55      60
Tyr Met Leu Ala Asn Lys Leu Ala Ser Pro Ile Met Pro Ala Ile Ala
      65      70      75
Ile Arg Glu Val Val Glu Glu Ala Tyr Ala Ala Asp Pro Glu Met Ile
      85      90      95
Ala Ser Ala Ala Cys Asp Ile Gln Ala Val Arg Thr Arg Asp Pro Ala
      100      105      110
Val Asp Lys Tyr Ser Thr Pro Leu Leu Tyr Leu Lys Gly Phe His Ala
      115      120      125
Leu Gln Ala Tyr Arg Ile Gly His Trp Leu Trp Asn Glu Gly Arg Arg
      130      135      140
Ala Leu Ala Ile Phe Leu Gln Asn Gln Val Ser Val Thr Phe Gln Val
      145      150      155
Asp Ile His Pro Ala Ala Lys Ile Gly Arg Gly Ile Met Leu Asp His
      165      170      175
Ala Thr Gly Ile Val Val Gly Glu Thr Ala Val Ile Glu Asp Asp Val
      180      185      190
Ser Ile Leu Gln Ser Val Thr Leu Gly Gly Thr Gly Lys Thr Ser Gly
      195      200      205
Asp Arg His Pro Lys Ile Arg Glu Gly Val Met Ile Gly Ala Gly Ala
      210      215      220
Lys Ile Leu Gly Asn Ile Glu Val Gly Arg Gly Ala Lys Ile Gly Ala
      225      230      235
Gly Ser Val Val Leu Gln Pro Val Pro Pro His Thr Thr Ala Ala Gly
      245      250      255
Val Pro Ala Arg Ile Val Gly Lys Pro Asp Ser Asp Lys Pro Ser Met
      260      265      270
Asp Met Asp Gln His Phe Asn Gly Ile His His Thr Phe Glu Tyr Gly
      275      280      285
Asp Gly Ile
      290

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<210> 6620

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6620

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Ser Leu Ser Arg Glu Leu Leu Pro Pro Met Gln Glu Ile Met Gln Phe
1      5      10      15
Val Ser Arg His Pro Val Leu Ser Ile Ala Trp Ile Gly Leu Leu Val
      20      25      30
Ala Val Leu Phe Thr Thr Phe Lys Gly Leu Thr Ser Lys Ile Lys Val
      35      40      45
Ile Thr Arg Gly Glu Ala Thr Arg Leu Ile Asn Lys Glu Asp Ala Val
      50      55      60
Val Val Asp Leu Arg Gln Arg Asp Asp Phe Arg Lys Gly His Ile Ala
      65      70      75
Gly Ala Ile Asn Leu Leu Pro Ala Glu Ile Lys Ala Asn Asn Ile Gly
      85      90      95
Glu Leu Glu Lys His Lys Ala Gln Pro Ile Ile Val Val Asp Gly Thr

```

100 105 110
 Gly Met Gln Ala Gln Glu Ser Ala Asn Ala Leu His Lys Ala Gly Phe
 115 120 125
 Glu Asn Val Thr Val Leu Lys Glu Gly Ile Ser Gly Trp Ser Gly Glu
 130 135 140
 Asn Leu Pro Leu Val Arg Gly Lys
 145 150

<210> 6621

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 6621

Ala Arg Asp Phe Arg Thr Ile Lys Lys Gly Phe Ser Met Ser Glu Gln
 1 5 10 15
 Asn Asn Thr Glu Met Thr Phe Gln Ile Gln Arg Ile Tyr Thr Lys Asp
 20 25 30
 Val Ser Phe Glu Ala Pro Asn Ala Pro His Val Phe Gln Lys Asp Trp
 35 40 45
 Gln Pro Glu Val Lys Leu Asp Leu Asp Thr Ala Ser Thr Gln Leu Ala
 50 55 60
 Asp Asp Val Tyr Glu Val Val Leu Arg Val Thr Val Thr Ala Ser Leu
 65 70 75 80
 Gly Glu Glu Thr Ala Phe Leu Cys Glu Val Gln Gln Gly Gly Ile Phe
 85 90 95
 Ser Ile Gly Gly Ile Glu Gly Asn Gln Met Ala His Cys Leu Gly Ala
 100 105 110
 Tyr Cys Pro Asn Ile Leu Phe Pro Tyr Ala Arg Glu Cys Ile Thr Ser
 115 120 125
 Leu Val Ser Arg Gly Thr Phe Pro Gln Leu Asn Leu Ala Pro Val Asn
 130 135 140
 Phe Asp Ala Leu Phe Met Asn Tyr Leu Gln Gln Ala Gly Glu Gly
 145 150 155 160
 Ala Glu Gln His Gln Asp Ala
 165

<210> 6622

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 6622

Ser Lys Ala Arg Cys Ile Asp Ser Pro Gly Phe Phe Ile Trp Leu Phe
 1 5 10 15
 Arg Arg Ser Asp Ala Val Ala Val Phe Glu Gly Val Val Asn Thr Val
 20 25 30
 Glu Val Leu Ile His Ile His Arg Arg Leu Ile Ala Val Trp Leu Thr
 35 40 45
 Asp Asp Ala Arg Arg Asp Ala Ser Gly Gly Gly Val Arg Arg Tyr Arg
 50 55 60
 Leu Glu His Asn Arg Pro Arg Ala Asn Leu Arg Ala Ala Ser Asp Phe
 65 70 75 80
 Asn Ile Ala Glu Asp Phe Ser Thr Arg Ala Asn His His Pro Phe Thr
 85 90 95
 Asn Phe Arg Met Ala Ile Ala Ala Gly Phe Thr Gly Thr Ala Gln Arg
 100 105 110
 Asn Gly Leu Gln Asp Arg His Val Ile Phe Asp His Arg Arg Phe Thr
 115 120 125
 Asp Asn Asn Ala Gly Gly Val Val Glu His Asp Pro Thr Ala Asn Phe
 130 135 140

Arg Arg Arg Met Asn Ile Asp Leu Glu Gly His Gly Asn Leu Val Leu
 145 150 155 160
 Lys Lys Asp Gly Gln Arg Ala Ala Ser Leu Ile Pro
 165 170

<210> 6623

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 6623

Asn Tyr Ala Lys Phe Leu Ser Leu Glu His Glu Val Val Ala Met Ser
 1 5 10 15
 Val Ser Lys Lys Pro Met Val Leu Val Ile Leu Asp Gly Tyr Gly Tyr
 20 25 30
 Arg Glu Asp Gln Gln Asp Asn Ala Ile Phe Asn Ala Lys Thr Pro Val
 35 40 45
 Met Asp Ala Leu Trp Ala Lys Arg Pro His Thr Leu Ile Asp Ala Ser
 50 55 60
 Gly Leu Glu Val Gly Leu Pro Asp Arg Gln Met Gly Asn Ser Glu Val
 65 70 75 80
 Gly His Val Asn Leu Gly Ala Gly Arg Ile Val Tyr Gln Asp Leu Thr
 85 90 95
 Arg Leu Asp Val Glu Ile Lys Glu Arg Thr Phe Phe Ala Asn Pro Thr
 100 105 110
 Leu Thr Gly Ala Val Asp Lys Ala Val Ala Ala Gly Lys Ala Val His
 115 120 125
 Ile Met Gly Leu Leu Ser Ala Gly Gly Val His Ser His Glu Asp His
 130 135 140
 Ile Met Ala Met Val Glu Leu Ala Ala Glu Arg Gly Ala Glu Lys Ile
 145 150 155 160
 Tyr Leu His Ala Phe Leu Asp Gly Arg Asp Thr Pro Pro Arg Ser Ala
 165 170 175
 Lys Gly Ser Leu Glu Ala Phe Glu Asp Lys Phe Ala Ala Leu Gly Lys
 180 185 190
 Gly Arg Val Ala Ser Ile Ile Gly Arg Tyr Tyr Ala Met Asp Arg Asp
 195 200 205
 Asn Arg Trp Asp Arg Val Glu Gln Ala Tyr Asp Leu Leu Thr Leu Ala
 210 215 220
 Lys Gly Glu Phe Gln Phe Pro Thr Ala Val Glu Gly Leu Glu Ala Ala
 225 230 235 240
 Tyr Ala Arg Asp Glu Asn Asp Glu Phe Val Lys Ala Thr Val Ile Arg
 245 250 255
 Ala Glu Gly Gln Ala Asp Ala Ala Met Glu Asp Gly Asp Ala Leu Ile
 260 265 270
 Phe Met Asn Phe Arg Ala Asp Arg Ala Arg Glu Ile Thr Arg Ala Phe
 275 280 285
 Val Asn Ser Ser Asp Phe Asp Gly Phe Ala Arg Lys Lys Val Ala Lys Ile
 290 295 300
 Asp Phe Ile Gln Leu Thr Glu Tyr Ala Ala Asp Ile Lys Ala Pro Cys
 305 310 315 320
 Ala Tyr Pro Pro Ala Ser Leu Ala Asn Thr Phe Gly Glu Trp Met Ala
 325 330 335
 Lys Asn Asp Lys Thr Gln Leu Arg Ile Ser Glu Thr Glu Lys Tyr Ala
 340 345 350
 His Val Thr Phe Phe Phe Asn Gly Gly Val Glu Glu Pro Phe Lys Gly
 355 360 365
 Glu Asp Arg Ile Leu Ile Asn Ser Pro Lys Val Ala Thr Tyr Asp Leu
 370 375 380
 Gln Pro Glu Met Ser Ser Ala Glu Leu Thr Glu Lys Leu Val Ala Ala
 385 390 395 400

Ile Glu Ser Gly Lys Tyr Asp Thr Ile Ile Cys Asn Tyr Pro Asn Gly
 405 410 415
 Asp Met Val Gly His Thr Gly Val Met Glu Ala Ala Val Lys Ala Val
 420 425 430
 Glu Ala Leu Asp His Cys Val Glu Gln Val Ala Lys Ala Val Glu Ser
 435 440 445
 Val Gly Gly Gln Leu Leu Ile Thr Ala Asp His Gly Asn Ala Glu Gln
 450 455 460
 Met Arg Asp Pro Ala Thr Gly Gln Ala His Thr Ala His Thr Asn Leu
 465 470 475 480
 Pro Val Pro Leu Ile Tyr Val Gly Asp Lys Ser Val Lys Ala Val Glu
 485 490 495
 Gly Gly Lys Leu Ser Asp Ile Ala Pro Thr Met Leu Ser Leu Met Gly
 500 505 510
 Met Glu Ile Pro Glu Glu Met Thr Gly Lys Pro Leu Phe Ile Val Glu
 515 520 525

<210> 6624

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 6624

Ser Leu Pro Met Arg Gly Lys Ala Ile Phe Ser Ile Thr Trp Val Met
 1 5 10 15
 Lys Pro Leu Arg Leu Ser Val Arg Pro Leu Leu Cys Ala Ser Ala Leu
 20 25 30
 Ser Ala Gly Val Leu Leu Cys Ala Ala Ser Ala His Ala Asp Asp Arg
 35 40 45
 Asp Gln Leu Lys Ser Ile Gln Ala Asp Ile Ala Ala Lys Glu Arg Ala
 50 55 60
 Val Arg Gln Gln Gln Gln Arg Ala Thr Leu Leu Ala Gln Leu Lys
 65 70 75 80
 Lys Gln Glu Glu Ala Ile Ser Ala Ala Ala Arg Lys Leu Arg Glu Thr
 85 90 95
 Gln Asn Thr Leu Ala Gln Leu Asn Lys Gln Ile Asp Glu Met Asn Ala
 100 105 110
 Ser Ile Ala Lys Leu Glu Arg Gln Arg Asp Ala Gln Glu Arg Asn Leu
 115 120 125
 Ala Ala Gln Leu Asp Ala Ala Phe Arg Gln Gly Glu His Thr Gly Leu
 130 135 140
 Gln Leu Ile Leu Ser Gly Glu Glu Ser Gln Arg Gly Gln Arg Leu Gln
 145 150 155 160
 Ala Tyr Phe Gly Tyr Leu Asn Gln Ala Arg Gln Glu Thr Ile Ala Gln
 165 170 175
 Leu Lys Gln Thr Arg Glu Glu Val Thr Thr Gln Lys Ala Glu Leu Glu
 180 185 190
 Glu Lys Gln Ser Gln Gln Gln Thr Leu Leu Tyr Asp Gln Gln Ala Gln
 195 200 205
 Gln Glu Lys Leu Glu Gln Ala Arg Asn Glu Arg Lys Lys Thr Leu Ala
 210 215 220
 Gly Leu Glu Ser Ser Ile Gln Ala Gly Gln Ser Gln Leu Ser Glu Met
 225 230 235 240
 Arg Ala Asn Glu Ser Arg Leu Arg Asn Ser Ile Ala Arg Ala Glu Ala
 245 250 255
 Ala Ala Lys Ala Arg Ala Glu Lys Glu Ala Arg Glu Ala Gln Ala Val
 260 265 270
 Arg Asn Lys Gln Gln Glu Ala Ser Arg Lys Gly Thr Thr Tyr Lys Pro
 275 280 285

Thr Glu Asn Glu Arg Ser Leu Met Ser Arg Thr Gly Gly Leu Gly Ser
 290 295 300
 Pro Arg Gly Gln Ala Tyr Trp Pro Val Arg Gly Thr Ile Leu His Arg
 305 310 315 320
 Tyr Gly Glu Gln Leu Gln Gly Glu Leu Arg Trp Lys Gly Ile Val Ile
 325 330 335
 Gly Ala Ser Glu Gly Ser Glu Val Lys Ala Ile Ala Asp Gly Arg Val
 340 345 350
 Ile Leu Ala Asp Trp Leu Gln Gly Tyr Gly Leu Val Val Val Val Glu
 355 360 365
 His Gly Lys Gly Asp Met Ser Leu Tyr Gly Tyr Asn Gln Ser Ala Leu
 370 375 380
 Val Ser Val Gly Thr Gln Val Arg Ala Gly Gln Pro Ile Ala Leu Val
 385 390 395 400
 Gly Ser Ser Gly Gly Gln Gly Arg Pro Ser Leu Tyr Phe Glu Ile Arg
 405 410 415
 Arg Gln Gly Gln Ala Val Asn Pro Gln Pro Trp Leu Gly Arg
 420 425 430

<210> 6625

<211> 322

<212> PRT

<213> *Enterobacter cloacae*

<400> 6625

Val Leu Leu Gln Phe Arg Arg Ile Val Phe Ser Val Val Ser Ala Leu
 1 5 10 15
 Ala Leu Ala Ala Pro Val Tyr Ala Gly Lys Leu Ala Ile Val Ile Asp
 20 25 30
 Asp Phe Gly Tyr Arg Pro His Tyr Glu Asn Gln Val Leu Ala Met Pro
 35 40 45
 Ser Ala Ile Ser Val Ala Val Leu Pro Asn Ala Pro His Ala His Glu
 50 55 60
 Met Ala Thr Lys Ala His Asn Gly Gly His Gln Val Leu Ile His Leu
 65 70 75 80
 Pro Met Ala Pro Leu Ser Lys Gln Pro Leu Glu Lys Asp Thr Leu Arg
 85 90 95
 Pro Asp Met Ser Ser Asp Glu Ile Asp Arg Ile Ile Arg Asp Ala Tyr
 100 105 110
 Asn Lys Val Pro Tyr Ala Val Gly Leu Asn Asn His Met Gly Ser Ala
 115 120 125
 Met Thr Ser Ser Leu Tyr Gly Met Leu Lys Val Met Gln Ala Leu Glu
 130 135 140
 Arg Tyr Asn Leu Tyr Phe Leu Asp Ser Met Thr Ile Gly Asn Ser Gln
 145 150 155 160
 Ala Met Arg Ala Ala Gln Gly Thr Gly Val Lys Val Ile Lys Arg Lys
 165 170 175
 Val Phe Leu Asp Asp Ser Gln Asn Glu Ala Asp Ile Arg Val Gln Phe
 180 185 190
 Asn Arg Ala Val Gln Leu Ala Arg Arg Asn Gly Ser Ala Ile Ala Ile
 195 200 205
 Gly His Pro His Pro Ser Thr Val Arg Val Leu Gln Gln Met Leu Pro
 210 215 220
 Gly Leu Pro Ala Asp Ile Thr Leu Val Arg Pro Ser Asp Leu Leu Asn
 225 230 235 240
 Glu Pro Gln Val Asp Thr Ser Arg Pro Gly Ser Ala Gln Pro Pro Ala
 245 250 255
 Thr Arg Pro Arg Asn Pro Phe Arg Gly Val Lys Asn Cys Thr Leu Lys
 260 265 270
 Gln Pro Pro Glu Pro Val Tyr Ala Thr Arg Phe Phe Thr Val Ile Gly
 275 280 285

Glu Ser Ile Asn Ser Ser Thr Leu Val Lys Ile Arg Pro Ala Thr Val
 290 295 300
 Ala Gly Leu Gly Lys Lys Asn Pro Asp Arg Val Asn Pro Ile Pro Ala
 305 310 315 320
 Arg

<210> 6626

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 6626

Ile Val His Glu Gln Arg Ile Lys Val Tyr Trp Arg Glu Val Gln Leu
 1 5 10 15
 Arg Glu Cys Thr Ala Arg Asn Gln Ala Gly Asp Ala Phe Thr Arg Ile
 20 25 30
 Arg Glu Gln Asp Val Arg Ala Val Cys Thr Gln Ala Met Arg His Leu
 35 40 45
 Val Thr Phe Asp Ala Ala Asp Gly Glu Asp Thr Ala Leu Leu Asn Phe
 50 55 60
 Ala Gln Glu Arg Ser Phe Phe Ala Gln Arg Gly Gly His Gly Asp Thr
 65 70 75 80
 Gln Tyr Asp Phe Ile His Ile Ile Arg Gln Leu Gly Gly Cys Gly Ile
 85 90 95
 Gln Ile Lys Phe Asn Leu Trp Leu Pro Val Phe Leu Glu Asn Val Arg
 100 105 110
 Arg Ile Trp Arg Phe Glu Arg Asp Ile Leu Gly Val Asp Ala Leu Asp
 115 120 125
 Leu Glu Ser His Leu Gly Val Ile Leu Phe
 130 135

<210> 6627

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 6627

Arg Arg His Ser Lys Gly Asp Asp Val Tyr Val Met Asp Ile Asn Gly
 1 5 10 15
 Leu Ile Glu Gln Tyr Gly Tyr Ala Ala Leu Val Ile Gly Ser Val Ala
 20 25 30
 Glu Gly Glu Thr Ile Thr Leu Leu Gly Gly Val Ala Ala His Gln Gly
 35 40 45
 Leu Leu Lys Phe Ser Leu Val Val Ala Ala Val Ala Leu Gly Gly Met
 50 55 60
 Ile Gly Asp Gln Leu Leu Tyr Phe Leu Gly Leu Arg Phe Gly Pro Thr
 65 70 75 80
 Leu Leu Gln Arg Phe Ala Arg His Gln Lys Lys Ile Arg Arg Ala Gln
 85 90 95
 Arg Leu Ile Gln Arg His Pro Tyr Leu Phe Val Ile Gly Thr Arg Phe
 100 105 110
 Met Tyr Gly Phe Arg Ile Ile Gly Pro Ile Leu Ile Gly Ala Ser Arg
 115 120 125
 Leu Pro Pro Lys Ile Phe Leu Pro Leu Asn Ile Leu Gly Ala Ile Ala
 130 135 140
 Trp Ala Leu Ile Phe Thr Thr Leu Gly Tyr Ala Gly Gly Glu Val Ile
 145 150 155 160
 Gly Pro Trp Leu His Asn Leu Asp Gln His Leu Lys His Trp Ala Trp
 165 170 175
 Leu Ile Leu Val Val Ala Val Val Ile Gly Val Arg Leu Trp Leu Lys

180 185 190
 His Arg Glu Lys Arg Arg Asp Glu Glu
 195 200

<210> 6628
 <211> 144
 <212> PRT
 <213> Enterobacter cloacae

<400> 6628
 Leu Tyr Asp Glu Tyr Val Ser Ala Arg Thr Phe Thr Met Ser Lys Ser
 1 5 10 15
 Leu Asn Thr Ile Trp Gln Tyr Leu Arg Ala Phe Val Leu Ile Tyr Ala
 20 25 30
 Cys Leu Tyr Ala Gly Ile Phe Ile Ala Ser Leu Leu Pro Ile Thr Ile
 35 40 45
 Pro Gly Ser Ile Ile Gly Met Leu Ile Leu Phe Val Leu Leu Ala Leu
 50 55 60
 Gln Val Leu Pro Ala Lys Trp Val Asn Pro Gly Cys Phe Val Leu Ile
 65 70 75 80
 Arg Tyr Met Ala Leu Leu Phe Val Pro Ile Gly Val Gly Val Met Gln
 85 90 95
 Tyr Tyr Asp Val Leu Lys Ala Gln Phe Gly Pro Ile Val Val Ser Cys
 100 105 110
 Ala Ile Ser Thr Leu Val Val Phe Leu Val Val Ser Trp Ser Ser His
 115 120 125
 Ile Val His Gly Glu Arg Lys Val Val Gly Glu Lys Thr Lys Lys
 130 135 140

<210> 6629
 <211> 120
 <212> PRT
 <213> Enterobacter cloacae

<400> 6629
 Ile Arg His His Ala Asp Cys His Gly Arg Gly Arg Gln His Arg Gly
 1 5 10 15
 His Ser Gly His Gln Arg Arg Val Arg Asp Phe Arg Arg Tyr Pro Gly
 20 25 30
 Arg Gly Val Trp Ser Tyr Ala Ala Glu Tyr His Glu Asn Ser Tyr Gln
 35 40 45
 Ser Gly Thr Arg Ser Gly Asp Gly Tyr Arg Leu Ala Arg Ala Gly His
 50 55 60
 Arg Thr Leu Arg Gly Thr Gly Leu Ser Gly Arg Gly Ile Gln Leu Ala
 65 70 75 80
 Gly Ala Gly Asp Leu Arg Asp Tyr His Phe Pro Gly Arg Ala Val Tyr
 85 90 95
 Leu Pro Asp Tyr Ser Gly Ser Asn Gly Leu Lys Phe Ala Met Arg Arg
 100 105 110
 Ala Asn Phe Ile Phe Ile Ser
 115 120

<210> 6630
 <211> 298
 <212> PRT
 <213> Enterobacter cloacae

<400> 6630
 Gly Asn Val Met His Pro Arg Phe Gln Ala Ala Phe Ser Gln Leu Ala
 1 5 10 15
 Glu Asn Leu Gln Ser Ala Leu Ala Pro Val Leu Ala Asp Ala His Phe

20 25 30
 Pro Ala Leu Thr Ala Asp Gln Val Thr Thr Leu Lys Gln Ala Thr
 35 40 45
 Gly Leu Asp Glu Asp Ala Leu Ala Phe Ala Leu Leu Pro Leu Ala Ala
 50 55 60
 Ala Cys Ala Arg Ala Asp Leu Ser His Phe Asn Val Gly Ala Ile Ala
 65 70 75 80
 Arg Gly Val Ser Gly Thr Trp Tyr Phe Gly Gly Asn Met Glu Phe Leu
 85 90 95
 Gly Ala Thr Met Gln Gln Thr Val His Ala Glu Gln Ser Ala Ile Ser
 100 105 110
 His Ala Trp Leu Arg Gly Glu Lys Ala Leu Arg Ala Ile Thr Val Asn
 115 120 125
 Tyr Thr Pro Cys Gly His Cys Arg Gln Phe Met Asn Glu Leu Asn Ser
 130 135 140
 Gly Leu Glu Leu Arg Ile Asn Leu Pro Gly Arg Ala Pro His Thr Leu
 145 150 155 160
 Arg Asp Tyr Leu Pro Asp Ala Phe Gly Pro Lys Asp Leu Glu Ile Lys
 165 170 175
 Thr Leu Leu Met Asp Glu Gln Asp His Gly Tyr Ala Leu Ser Gly Asp
 180 185 190
 Glu Leu Ser Glu Ala Ala Ile Ala Ala Asn Lys Ser His Thr Pro
 195 200 205
 Tyr Ser Lys Ser Pro Ser Gly Val Ala Leu Gln Cys Arg Asp Gly Arg
 210 215 220
 Ile Phe Thr Gly Ser Tyr Ala Glu Asn Ala Ala Phe Asn Pro Thr Leu
 225 230 235 240
 Pro Pro Leu Gln Gly Ala Leu Asn Leu Leu Ser Leu Asn Gly Tyr Asp
 245 250 255
 Tyr Pro Asp Ile Gln Arg Ala Ile Leu Ala Glu Lys Ala Asp Ala Pro
 260 265 270
 Leu Ile Gln Trp Asp Ala Thr Ala Ala Thr Leu Lys Ala Leu Gly Cys
 275 280 285
 Ser Thr Ile Asp Arg Val Leu Leu Ala
 290 295

<210> 6631

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6631

Gly Arg Arg Gly Glu Asn Lys Lys Met Met Ala Asn Ile Trp Trp Ser
 1 5 10 15
 Leu Pro Leu Thr Leu Val Val Phe Phe Ala Ala Arg Lys Leu Ala Val
 20 25 30
 Arg Phe Lys Met Pro Leu Leu Asn Pro Leu Leu Val Ala Met Val Val
 35 40 45
 Ile Ile Pro Phe Leu Leu Leu Thr Gly Ile Ser Tyr Glu Arg Tyr Phe
 50 55 60
 Ala Gly Ser Lys Ile Leu Asn Asp Leu Leu Gln Pro Ala Val Val Ala
 65 70 75 80
 Leu Ala Phe Pro Leu Tyr Glu Gln Leu His Gln Ile Arg Ala Arg Trp
 85 90 95
 Lys Ser Ile Ile Thr Ile Cys Phe Val Gly Ser Leu Val Ala Met Ile
 100 105 110
 Thr Gly Thr Ser Val Ala Leu Met Met Gly Ala Ser Pro Gln Ile Ala
 115 120 125
 Ala Ser Ile Leu Pro Lys Ser Val Thr Thr Pro Ile Ala Met Ala Val
 130 135 140
 Gly Gly Ser Ile Gly Gly Ile Pro Ala Ile Ser Ala Val Cys Val Ile

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145          150          155          160
Phe Val Gly Ile Leu Gly Ala Val Phe Gly His Thr Leu Leu Asn Ile
          165          170          175
Met Lys Ile Arg Thr Lys Ala Ala Arg Gly Leu Ala Met Gly Thr Ala
          180          185          190
Ser His Ala Leu Gly Thr Ala Arg Cys Ala Glu Leu Asp Tyr Gln Glu
          195          200          205
Gly Ala Phe Ser Ser Leu Ala Leu Val Ile Cys Gly Ile Ile Thr Ser
          210          215          220
Leu Val Ala Pro Phe Ile Phe Pro Ile Ile Leu Ala Val Met Gly
225          230          235          240

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<210> 6632

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 6632

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Pro Gly Gly Tyr Ser Ser Leu Arg Glu Ile Ser Ser Ser Val Arg Ala
1          5          10          15
Ile Cys Met Leu Lys Arg Val Phe Tyr Ser Leu Ser Val Leu Val Gly
          20          25          30
Ile Leu Leu Leu Ile Val Leu Gly Leu Asp Arg Trp Met Ser Trp Lys
          35          40          45
Thr Ala Pro Tyr Ile Phe Asp Asp Leu Gln Asp Leu Pro Tyr Arg Gln
          50          55          60
Val Gly Val Val Leu Gly Thr Ala Lys Tyr Tyr Arg Thr Gly Val Ile
65          70          75          80
Asn Gln Tyr Tyr Arg Tyr Arg Ile Gln Gly Ala Leu Asn Ala Tyr Asn
          85          90          95
Ser Gly Lys Val Asn Tyr Leu Leu Ser Gly Asp Asn Ala Leu Gln
          100          105          110
Ser Tyr Asn Glu Pro Val Thr Met Arg Lys Asp Leu Ile Ala Ala Gly
          115          120          125
Val Asp Pro Ala Asp Ile Val Leu Asp Tyr Ala Gly Phe Arg Thr Leu
          130          135          140
Asp Ser Ile Val Arg Thr Arg Lys Val Phe Asp Thr Asn Asp Phe Ile
145          150          155          160
Ile Ile Thr Gln Arg Phe His Cys Glu Arg Ala Leu Phe Ile Ala Leu
          165          170          175
His Met Gly Ile Gln Ala Gln Cys Tyr Ala Val Pro Ser Pro Lys Asp
          180          185          190
Met Leu Ser Val Arg Val Arg Glu Phe Gly Ala Arg Phe Gly Ala Leu
          195          200          205
Ala Asp Leu Tyr Leu Phe Lys Arg Glu Pro Arg Phe Leu Gly Pro Leu
          210          215          220
Val Pro Ile Pro Thr Met His Glu Val Pro Glu Asp Ala Gln Gly Tyr
225          230          235          240
Pro Ala Val Thr Pro Glu Gln Leu Leu Glu Ile Gln Lys Lys
          245          250          255

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<210> 6633

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 6633

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Arg Ala Ala Thr Ile Ala Arg Leu Phe Ser Gln Val Leu Arg Met Arg
1          5          10          15
Val Leu Leu Ala Pro Met Glu Gly Val Leu Asp Ser Leu Val Arg Glu
          20          25          30

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```

Leu Leu Thr Glu Val Asn Asp Tyr Asp Leu Cys Val Thr Glu Phe Leu
35 40 45
Arg Val Val Asp Met Leu Leu Pro Glu Lys Ser Phe Tyr Arg Leu Cys
50 55 60
Pro Glu Leu His Arg Gln Ser Arg Thr Pro Ser Gly Thr Leu Val Arg
65 70 75 80
Val Gln Leu Leu Gly Gln Tyr Pro Glu Trp Leu Ala Glu Asn Ala Ala
85 90 95
Arg Ala Val Ala Leu Gly Ser Tyr Gly Val Asp Leu Asn Cys Gly Cys
100 105 110
Pro Ser Lys Leu Val Asn Gly Ser Gly Gly Gly Ala Thr Leu Leu Lys
115 120 125
Asp Pro Glu Leu Ile Tyr Arg Gly Ala Lys Ala Met Arg Glu Ala Val
130 135 140
Pro Ser His Leu Pro Val Thr Val Lys Val Arg Leu Gly Trp Asp Ser
145 150 155 160
Gly Asp Lys Gln Phe Glu Ile Ala Asp Ala Val Gln Gln Ala Gly Ala
165 170 175
Thr Glu Leu Val Val His Gly Arg Thr Lys Glu Asp Gly Tyr Lys Ala
180 185 190
Glu Arg Ile Asn Trp Gln Ala Ile Gly Glu Ile Arg Lys Arg Leu Thr
195 200 205
Ile Pro Val Ile Ala Asn Gly Glu Ile Trp Asp Tyr Glu Ser Ala Gln
210 215 220
Ala Cys Leu Lys Glu Thr Gly Cys Asn Ala Val Met Ile Gly Arg Gly
225 230 235 240
Ala Leu Asn Val Pro Asn Leu Ser Arg Val Val Lys Tyr Asn Glu Pro
245 250 255
Arg Met Pro Trp Ala Asp Val Val Lys Leu Leu Gln Lys Tyr Thr Arg
260 265 270
Leu Glu Lys Gln Gly Asp Thr Gly Leu Tyr His Val Ala Arg Ile Lys
275 280 285
Gln Trp Leu Ser Tyr Leu Arg Lys Glu Tyr Asp Asp Ala Leu Gly Leu
290 295 300
Phe Gln Glu Ile Arg Thr Leu Gln Thr Ser Ala Asp Ile Ala Arg Val
305 310 315 320
Ile Gln Ser Lys Ser
325

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<210> 6634

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 6634

```

Ile Ile Ile Arg Ser Leu Ile Met Leu Lys Phe Arg Val Ser Leu Leu
1 5 10 15
Ser Leu Ala Leu Leu Leu Gly Val Ser Ala Thr Ala Pro Ala Ile Ala
20 25 30
Lys Thr Thr Ala Val Ala Thr Ala Ala Ala Gln Pro Gln Ile Ala Ser
35 40 45
Gly Ser Ala Met Ile Val Asp Leu Asn Thr Asn Lys Val Ile Tyr Ala
50 55 60
Ser His Pro Asp Leu Val Arg Pro Ile Ala Ser Ile Thr Lys Val Met
65 70 75 80
Thr Ala Met Val Val Leu Asp Ala Arg Leu Pro Leu Asp Glu Lys Leu
85 90 95
Lys Val Asp Ile Ser His Thr Pro Glu Met Lys Gly Ile Tyr Ser Arg
100 105 110
Val Arg Leu Lys Ser Glu Ile Ser Arg Lys Asn Met Leu Leu Leu Ala
115 120 125

```

Leu Met Ser Ser Glu Asn Arg Ala Gly Gly Glu Pro Cys Pro Pro Leu
 130 135 140
 Ser Trp Arg Leu Arg Arg Val Tyr Pro Arg Asp Glu Cys Gln Ser Gln
 145 150 155 160
 Ser Ala Gly Asp Glu Lys Tyr Pro Phe Arg Gly Ala Asn Arg Ser Val
 165 170 175
 Asp Pro

<210> 6635

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 6635

Ser Lys Asn Ser Gly Ala Gln Arg Ala Tyr Cys Arg Val Asp Ala Glu
 1 5 10 15
 Arg Ser Val Arg Gly Cys His Ala Pro Ala His Leu Arg Ala Gly Trp
 20 25 30
 Arg Ile Ser Ser Arg Leu Thr Leu Arg Ile Ile Tyr Thr Tyr Leu Phe
 35 40 45
 Ala Asp Phe Gln Glu Val Ser Met Thr Arg Val Ala Ile Val Thr Ala
 50 55 60
 Ser Asp Ser Gly Ile Gly Lys Thr Thr Ala Leu Met Leu Ala Glu Arg
 65 70 75 80
 Gly Phe Asp Ile Gly Val Thr Trp His Ser Asp Glu Glu Gly Ala Leu
 85 90 95
 Glu Thr Cys Arg Glu Val Glu Ala Arg Gly Gln Arg Ala Glu Ala Ile
 100 105 110
 His Leu Asp Leu Gly Thr Leu Pro Glu Gly Ala Lys Ala Ile Glu Thr
 115 120 125
 Leu Ile Ser Arg Phe Gly Arg Leu Asp Val Leu Val Asn Asn Ala Gly
 130 135 140
 Ala Met Asn Lys Ala Pro Phe Leu Glu Leu Ser Phe Asp Asp Trp Arg
 145 150 155 160
 Asn Ile Phe Thr Val Asp Val Asp Gly Ala Phe Leu Cys Ser Gln Ile
 165 170 175
 Ala Ala Arg Gln Met Val Lys Gln Gly Glu Gly Arg Ile Val Asn
 180 185 190
 Ile Thr Ser Val His Glu His Thr Pro Leu Pro Asp Ala Ser Ala Tyr
 195 200 205
 Thr Ala Ala Lys His Ala Leu Gly Gly Leu Thr Lys Ser Met Ala Leu
 210 215 220
 Glu Leu Val Gln His Lys Ile Leu Val Asn Ala Val Ala Pro Gly Ala
 225 230 235 240
 Ile Ala Thr Pro Met Asn Asp Met Asp Asp Ser Glu Val Lys Glu Gly
 245 250 255
 Ser Met Pro Glu Ile Pro Leu Ala Arg Pro Gly His Thr Lys Glu Ile
 260 265 270
 Ala Ser Leu Val Ala Trp Leu Cys Asp Ser Asp Ala Ser Tyr Thr Thr
 275 280 285
 Gly Gln Ser Phe Ile Val Asp Gly Gly Phe Met Leu Ala Asn Pro Gln
 290 295 300
 Phe Lys Pro Glu Gly
 305 310

<210> 6636

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 6636
 Ser Lys Ala Cys Ile Ile Leu Lys Leu Ser Leu Thr Gly Arg Gln Gln
 1 5 10 15
 Gly Gly Val Met Asn His Val Trp Gly Leu Phe Ser His Pro Asp Arg
 20 25 30
 Glu Met Gln Val Ile Arg Asn Glu Asn Glu Thr Val Ala His His Tyr
 35 40 45
 Thr His His Val Leu Leu Met Ala Ala Val Pro Val Val Cys Ala Phe
 50 55 60
 Ile Gly Thr Thr Gln Ile Gly Trp Asn Phe Gly Asp Gly Thr Val Val
 65 70 75 80
 Gln Leu Ser Trp Phe Thr Gly Leu Tyr Leu Ala Ile Leu Phe Tyr Gly
 85 90 95
 Leu Met Leu Ala Gly Val Ala Val Met Gly Arg Val Ile His Trp Met
 100 105 110
 Ala Arg Asn Tyr Pro Gln Arg Pro Ser Leu Ala His Cys Met Val Phe
 115 120 125
 Ala Gly Tyr Val Ala Thr Pro Leu Phe Leu Ser Gly Ile Val Ala Leu
 130 135 140
 Tyr Pro Leu Val Trp Leu Cys Ala Leu Ile Gly Thr Val Ala Leu Phe
 145 150 155 160
 Tyr Thr Gly Tyr Leu Leu Tyr Val Gly Val Pro Thr Phe Leu Asn Ile
 165 170 175
 Asn Lys Glu Glu Gly Leu Ser Phe Ser Ser Thr Leu Ala Ile Gly
 180 185 190
 Val Leu Val Leu Glu Ala Leu Leu Ala Leu Thr Val Ile Leu Trp Gly
 195 200 205
 Tyr Gly Tyr Arg Leu Phe
 210 215

<210> 6637
 <211> 89
 <212> PRT
 <213> Enterobacter cloacae

<400> 6637
 Cys Pro Gln Arg Thr Ala Arg Ala Ala Ser Leu Ala His His Tyr Pro
 1 5 10 15
 Gly Gly Tyr Asp Ala Phe Ile Arg Ala Met Asn Ala Lys Ala Lys Ala
 20 25 30
 Leu Gly Met Lys Asn Thr His Phe Val Glu Pro Thr Gly Leu Ser Ile
 35 40 45
 His Asn Val Ser Thr Gly Arg Asp Leu Thr Lys Leu Leu Ile Ala Ser
 50 55 60
 Lys Gln Tyr Pro Leu Ile Gly Gln Leu Asn Thr Thr Pro Glu Glu Met
 65 70 75 80
 Ala Asn Phe Ser Lys Pro Gly Val
 85

<210> 6638
 <211> 477
 <212> PRT
 <213> Enterobacter cloacae

<400> 6638
 Val His Gly Val Met Lys Arg Ser Leu Thr Leu Ser Leu Ser Ala Pro
 1 5 10 15
 Leu Val Phe Met Leu Ala Ala Cys Ala Pro Glu His Ala Thr Val Ser
 20 25 30
 Pro Val Lys Thr Gln Ala Ala Ala Thr Val Asn Thr Gln Leu Arg
 35 40 45

His Ala Asp Trp Pro Lys Ser Glu Trp Trp Lys Asp Phe Asn Asp Ser
 50 55 60
 Gln Leu Asn Ala Leu Ile Asp Lys Ala Leu Ala Asp Ala Pro Asp Met
 65 70 75 80
 Gln Ile Ala Arg Gln Arg Ile Thr Leu Ala Glu Ala Gln Ala Lys Ala
 85 90 95
 Ala Val Ala Ala Glu Gly Pro Gln Leu Asp Phe Ser Ala Asp Val Glu
 100 105 110
 Arg Gln Lys Met Ser Ala Glu Gly Leu Met Gly Pro Phe Ala Leu Thr
 115 120 125
 Asp Pro Ala Ala Gly Thr Thr Gly Pro Trp Tyr Thr Asn Gly Thr Phe
 130 135 140
 Gly Leu Thr Ala Gly Trp Asp Leu Asp Leu Trp Gly Lys Asn Arg Ala
 145 150 155 160
 Gln Ile Glu Ala Arg Ile Gly Lys Val Asn Ala Gln Lys Ala Glu Leu
 165 170 175
 Glu Gln Thr Arg Gln Leu Leu Ala Ser Ser Val Ala Arg Leu Tyr Trp
 180 185 190
 Asp Trp Gln Thr Glu Ala Ala Val Gly Asp Val Leu Ala Gln Ile Lys
 195 200 205
 Arg Glu Gln Glu Asn Ile Ile Gly Ala Asp Arg Glu Leu Tyr Gln His
 210 215 220
 Gly Ile Thr Ser Ser Val Glu Gly Val Glu Thr Asp Ile Ser Ala Ser
 225 230 235 240
 Lys Thr Asp Glu Gln Leu Ala Asp Val His Gly Lys Met Lys Ala Ile
 245 250 255
 Glu Ala Arg Leu Asn Ala Leu Thr Asn Thr Pro Ser Val Thr Leu Ala
 260 265 270
 Arg His Ala Leu Pro Asp Ala Glu Ala Ser Leu Pro Ser Thr Leu Gly
 275 280 285
 Tyr Glu Leu Leu Ala Arg Arg Pro Asp Leu Gln Glu Ala His Trp Tyr
 290 295 300
 Ile Glu Ala Ser Met Ser Glu Val Asp Ala Ala Arg Ala Ala Phe Tyr
 305 310 315 320
 Pro Asp Ile Asn Leu Met Ala Phe Leu Gln Gln Asp Ala Leu His Leu
 325 330 335
 Ser Asp Leu Phe Arg Ser Ser Ala Gln Gln Met Gly Val Thr Ala Gly
 340 345 350
 Leu Thr Leu Pro Ile Phe Asp Ser Gly Arg Leu Asn Ala Asn Leu Asp
 355 360 365
 Ile Ala Gln Ala Gln Asn Asn Leu Ser Val Ala Asn Tyr Asn Lys Ala
 370 375 380
 Val Val Asp Ala Val Asn Gln Val Ala Arg Thr Ala Ser Glu Val Glu
 385 390 395 400
 Thr Leu Thr Ala Lys Asn Gln His Gln Gln Gln Ile Glu Lys Asp Ala
 405 410 415
 Ala Arg Val Val Ala Leu Ala Gln Ala Arg Phe Arg Ala Gly Ile Ile
 420 425 430
 Ala Gly Ser Arg Val Ser Glu Ala Lys Ile Pro Ala Leu Lys Glu Arg
 435 440 445
 Ile Ala Gly Leu Met Leu Lys Gly Gln Tyr Val Asp Ala Thr Leu Gln
 450 455 460
 Leu Thr Ser Ala Leu Gly Gly Tyr His His Gly
 465 470 475

<210> 6639

<211> 853

<212> PRT

<213> Enterobacter cloacae

<400> 6639

Val Lys Pro Gly Ala Ile Ser Tyr Leu Pro Met Asn Asn Thr Ser Glu
 1 5 10 15
 Tyr Ile Asp Ala Met Pro Leu Thr Asp Ile Lys Lys Ala Ala Leu Pro
 20 25 30
 Ala Ser Asp Ile Arg Ala Val His Thr Ala Leu Asp Gly Glu His Arg
 35 40 45
 His Phe Ser Arg Asp Asp Asp Thr Pro Leu Gly Ser Val Lys Ala Arg
 50 55 60
 Leu Glu Gln Ala Trp Pro Asp Ser Leu Ala Glu Gly Gln Leu Ile Lys
 65 70 75 80
 Asp Asp Glu Gly Arg Asp Gln Leu Gln Ala Met Pro Lys Ala Thr Arg
 85 90 95
 Ser Ser Met Phe Pro Asp Pro Trp Arg Thr Asn Pro Val Gly Arg Phe
 100 105 110
 Trp Asp Arg Leu Arg Gly Arg Asp Val Thr Pro Arg Tyr Leu Ser Arg
 115 120 125
 Leu Thr Lys Glu Gln Gln Ala Ser Glu Gln Lys Trp Arg Thr Val Gly
 130 135 140
 Thr Ile Arg Arg Tyr Ile Leu Leu Leu Leu Thr Leu Ala Gln Thr Val
 145 150 155 160
 Val Ala Thr Trp Tyr Met Lys Thr Ile Leu Pro Tyr Gln Gly Trp Ala
 165 170 175
 Leu Ile Asn Pro Ala Asp Met Ile Gly Gln Asp Ile Trp Val Ser Phe
 180 185 190
 Met Gln Leu Leu Pro Tyr Ile Leu Gln Ser Gly Ile Leu Leu Leu Phe
 195 200 205
 Ala Val Leu Phe Cys Trp Val Ser Ala Gly Phe Trp Thr Ala Leu Met
 210 215 220
 Gly Phe Leu Gln Leu Leu Met Gly Arg Asp Lys Tyr Ser Ile Ser Ala
 225 230 235 240
 Ser Thr Val Gly Asp Glu Pro Leu Asn Pro Glu His Arg Thr Ala Leu
 245 250 255
 Ile Met Pro Ile Cys Asn Glu Asp Val Asp Arg Val Phe Ala Gly Leu
 260 265 270
 Arg Ala Thr Trp Glu Ser Val Lys Ala Thr Gly Asn Ala Ala His Phe
 275 280 285
 Asp Val Tyr Ile Leu Ser Asp Ser Tyr Asn Pro Asp Ile Cys Val Ala
 290 295 300
 Glu Gln Lys Ala Trp Met Glu Leu Ile Ala Glu Val Gln Gly Glu Gly
 305 310 315 320
 Gln Ile Phe Tyr Arg Arg Arg Arg Arg Arg Val Lys Arg Lys Ser Gly
 325 330 335
 Asn Ile Asp Asp Phe Cys Arg Arg Trp Gly Asn Gln Tyr Ser Tyr Met
 340 345 350
 Val Val Leu Asp Ala Asp Ser Val Met Ser Gly Asp Cys Leu Ser Gly
 355 360 365
 Leu Val Arg Leu Met Glu Ala Asn Pro Asn Ala Gly Ile Ile Gln Ser
 370 375 380
 Ser Pro Lys Ala Ser Gly Met Asp Thr Leu Tyr Ala Arg Cys Gln Gln
 385 390 395 400
 Phe Ala Thr Arg Val Tyr Gly Pro Leu Phe Thr Ala Gly Leu His Phe
 405 410 415
 Trp Gln Leu Gly Glu Ser His Tyr Trp Gly His Asn Ala Ile Ile Arg
 420 425 430
 Val Lys Pro Phe Ile Glu His Cys Ala Leu Ala Pro Leu Pro Gly Glu
 435 440 445
 Gly Ser Phe Ala Gly Ser Ile Leu Ser His Asp Phe Val Glu Ala Ala
 450 455 460
 Leu Met Arg Arg Ala Gly Trp Gly Val Trp Ile Ala Tyr Asp Leu Pro
 465 470 475 480
 Gly Ser Tyr Glu Glu Leu Pro Pro Asn Leu Leu Asp Glu Leu Lys Arg

485 490 495
 Asp Arg Arg Trp Cys His Gly Asn Leu Met Asn Phe Arg Leu Phe Leu
 500 505 510
 Val Lys Gly Met His Pro Val His Arg Ala Val Phe Leu Thr Gly Val
 515 520 525
 Met Ser Tyr Leu Ser Ala Pro Leu Trp Phe Met Phe Leu Ala Leu Ser
 530 535 540
 Thr Ala Leu Gln Val Val His Ala Leu Thr Glu Pro Gln Tyr Phe Leu
 545 550 555 560
 Gln Pro Arg Gln Leu Phe Pro Val Trp Pro Gln Trp Arg Pro Glu Leu
 565 570 575
 Ala Ile Ala Leu Phe Ala Ser Thr Met Val Leu Leu Phe Leu Pro Lys
 580 585 590
 Leu Leu Ser Ile Ile Leu Ile Trp Cys Lys Gly Ser Lys Glu Tyr Gly
 595 600 605
 Gly Phe Cys Arg Val Thr Leu Ser Leu Leu Leu Glu Val Leu Phe Ser
 610 615 620
 Val Leu Leu Ala Pro Val Arg Met Leu Phe His Thr Val Phe Val Val
 625 630 635 640
 Ser Ala Phe Leu Gly Trp Glu Val Val Trp Asn Ser Pro Gln Arg Asp
 645 650 655
 Asp Asp Ser Thr Pro Trp Ser Glu Ala Phe Met Arg His Gly Ser Gln
 660 665 670
 Leu Leu Leu Gly Leu Val Trp Ala Val Gly Met Ala Trp Leu Asp Leu
 675 680 685
 Arg Phe Leu Phe Trp Leu Ala Pro Ile Val Phe Ser Leu Ile Leu Ser
 690 695 700
 Pro Phe Val Ser Val Ile Ser Ser Arg Ser Thr Val Gly Leu Arg Thr
 705 710 715 720
 Lys Arg Trp Lys Leu Phe Leu Ile Pro Glu Glu Tyr Ser Pro Pro Gln
 725 730 735
 Val Leu Val Asp Thr Asp Thr Tyr Leu Glu Gln Asn Arg Lys Arg Thr
 740 745 750
 Leu Asp Asp Gly Phe Met His Ala Val Phe Asn Pro Ser Phe Asn Ala
 755 760 765
 Leu Ala Thr Ala Met Ala Thr Ala Arg His Arg Ala Ser Gln Val Leu
 770 775 780
 Glu Ile Ala Arg Asp Arg His Val Glu Gln Ala Leu Asn Glu Thr Pro
 785 790 795 800
 Glu Lys Leu Asn Arg Asp Arg Arg Leu Val Leu Ser Asp Pro Val
 805 810 815
 Thr Met Ala Arg Leu His Tyr Arg Val Trp Ser Ala Pro Glu Arg Tyr
 820 825 830
 Ser Ser Trp Val Asn Tyr Tyr Lys Asp Val Lys Leu Asn Pro Leu Ala
 835 840 845
 Leu Lys Ala Lys
 850

<210> 6640

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 6640

Arg Ser Asp Met Lys Val Ile Ile Val Val Met Met Ala Cys Leu Leu
 1 5 10 15
 Ser Gly Cys Gly Ser Ile Ile Ser Arg Thr Ile Pro Gly Gln Gly His
 20 25 30
 Gly Asn Gln Tyr Tyr Pro Gly Val Gln Trp Asp Val Arg Asp Ser Ala
 35 40 45
 Trp Arg Tyr Leu Thr Val Ile Asp Leu Pro Phe Ser Leu Ile Phe Asp

50 55 60
 Thr Leu Leu Leu Pro Ile Asp Ala Ser His Gly Pro Tyr Glu
 65 70 75

<210> 6641
 <211> 379
 <212> PRT
 <213> Enterobacter cloacae

<400> 6641
 Arg Lys Leu Cys Gly Cys Lys Leu Ser Leu Phe Ala Ile Ser Cys Arg
 1 5 10 15
 Pro Ile Phe Ile Ser Gln Arg Leu Gln Asp Leu Tyr Thr Met Pro Val
 20 25 30
 Leu His Asn Arg Val Ser Asn Glu Met Leu Lys Ala Arg Met Leu Ala
 35 40 45
 Glu Thr Glu Pro Arg Thr Thr Ile Ser Phe Tyr Lys Tyr Phe Thr Ile
 50 55 60
 Asp Asp Pro Gln Ala Thr Arg Asp Ala Leu Tyr Gln Ala Phe Thr Ala
 65 70 75 80
 Leu Asn Val Phe Gly Arg Val Tyr Leu Ala Arg Glu Gly Ile Asn Ala
 85 90 95
 Gln Ile Ser Val Pro Glu Ser Lys Val Ser Ala Phe Arg Asp Leu Leu
 100 105 110
 Tyr Gly Phe Asp Pro Ala Leu Asn Gly Leu Arg Leu Asn Ile Ala Leu
 115 120 125
 Asp Asp Asp Gly Lys Ser Phe Trp Val Leu Arg Met Lys Val Arg Glu
 130 135 140
 Arg Ile Val Ala Asp Gly Ile Asp Asp Pro Ser Phe Asn Ala Ala Asn
 145 150 155 160
 Val Gly Glu Tyr Leu Lys Ala Ala Glu Val Asn Ala Met Leu Asp Asp
 165 170 175
 Pro Asp Ala Val Phe Ile Asp Met Arg Asn His Tyr Glu Tyr Glu Val
 180 185 190
 Gly His Phe Glu Asn Ala Met Glu Ile Pro Ala Asp Thr Phe Arg Glu
 195 200 205
 Gln Leu Pro Lys Ala Val Glu Met Met Gln Glu His Lys Asp Lys Lys
 210 215 220
 Ile Val Met Tyr Cys Thr Gly Gly Ile Arg Cys Glu Lys Ala Ser Ala
 225 230 235 240
 Trp Met Lys His Asn Gly Phe Asn Lys Val Trp His Ile Glu Gly Gly
 245 250 255
 Ile Ile Glu Tyr Ala Arg Arg Ala Arg Glu Gln Gly Leu Pro Val Arg
 260 265 270
 Phe Ile Gly Lys Asn Phe Val Phe Asp Glu Arg Met Gly Glu Arg Ile
 275 280 285
 Ser Glu Asp Val Ile Ala His Cys His Gln Cys Gly Thr Pro Cys Asp
 290 295 300
 Thr His Thr Asn Cys Lys Asn Asp Gly Cys His Leu Leu Phe Ile Gln
 305 310 315 320
 Cys Pro Ala Cys Ala Glu Lys Phe Asn Gly Cys Cys Ser Glu Leu Cys
 325 330 335
 Ser Glu Glu Ser Met Leu Pro Glu Glu Glu Gln Arg Arg Arg Ala
 340 345 350
 Gly Arg Glu Asn Gly Asn Lys Ile Phe Asn Lys Ser Arg Gly Arg Leu
 355 360 365
 Asn Thr Lys Leu Gly Ile Pro Asp Pro Glu
 370 375

<210> 6642
 <211> 538

<212> PRT

<213> *Enterobacter cloacae*

<400> 6642

Val Ser Ile Lys Met Asp Arg Ile Asp Ile Ser Thr Gln Arg Gly Lys
 1 5 10 15
 Cys Leu Leu Ile Met Lys His Lys Pro Gln Met Met Lys Met Arg Trp
 20 25 30
 Leu Gly Val Ala Val Leu Leu Ser Leu Tyr Thr Ser Ser Ala Leu Ala
 35 40 45
 Phe Asn Ile Asp Asp Val Ala Lys Gln Ala Lys Ser Met Ala Gly Lys
 50 55 60
 Ser Tyr Glu Ala Pro Lys Ser Asn Leu Pro Ser Val Phe Arg Asp Met
 65 70 75 80
 Lys Tyr Ala Asp Tyr Gln Glr Ile Gln Phe Asn His Asp Lys Ala Tyr
 85 90 95
 Trp Asn Asn Ile Lys Thr Pro Phe Lys Leu Glu Phe Tyr His Gln Gly
 100 105 110
 Met Tyr Phe Asp Thr Pro Val Ala Ile Asn Glu Val Thr Ala Thr Ala
 115 120 125
 Val Arg Lys Ile Lys Tyr Ser Pro Asp Tyr Phe Asn Phe Gly Asp Val
 130 135 140
 Gln His Asp Lys Asp Thr Val Lys Asp Leu Gly Phe Ala Gly Phe Lys
 145 150 155 160
 Val Leu Tyr Pro Ile Asn Ser Lys Asp Lys Asn Asp Glu Ile Val Ser
 165 170 175
 Met Leu Gly Ala Ser Tyr Phe Arg Val Ile Gly Ala Gly Gln Val Tyr
 180 185 190
 Gly Leu Ser Ala Arg Gly Leu Ala Ile Asp Thr Ala Leu Pro Ser Gly
 195 200 205
 Glu Glu Phe Pro Arg Phe Arg Glu Phe Trp Ile Glu Arg Pro Lys Pro
 210 215 220
 Thr Asp Lys Arg Leu Thr Ile Tyr Ala Leu Leu Asp Ser Pro Arg Ala
 225 230 235 240
 Thr Gly Ala Tyr Arg Phe Val Ile Met Pro Gly Arg Asp Thr Val Val
 245 250 255
 Asp Val Gln Ser Lys Val Tyr Leu Arg Asp Lys Val Gly Lys Leu Gly
 260 265 270
 Val Ala Pro Leu Thr Ser Met Phe Leu Phe Gly Pro Asn Gln Pro Ser
 275 280 285
 Pro Ala Thr Asn Phe Arg Pro Glu Leu His Asp Ser Asn Gly Leu Ser
 290 295 300
 Ile His Ala Gly Asn Gly Glu Trp Ile Trp Arg Pro Leu Asn Asn Pro
 305 310 315 320
 Lys His Leu Ala Val Ser Ser Phe Ala Met Glu Asn Pro Gln Gly Phe
 325 330 335
 Gly Leu Leu Gln Arg Gly Arg Gln Phe Ser Arg Phe Glu Asp Leu Asp
 340 345 350
 Asp Arg Tyr Asp Leu Arg Pro Ser Ala Trp Val Thr Pro Lys Gly Asp
 355 360 365
 Trp Gly Lys Gly Lys Val Glu Leu Val Glu Ile Pro Thr Asn Asp Glu
 370 375 380
 Thr Asn Asp Asn Ile Val Ala Tyr Trp Thr Pro Asp Gln Leu Pro Glu
 385 390 395 400
 Ala Gly Lys Glu Met Asn Phe Lys Tyr Ala Ile Thr Phe Ser Arg Asp
 405 410 415
 Glu Asp Lys Leu His Ala Pro Asp Asn Ala Tyr Val Met Gln Thr Arg
 420 425 430
 Arg Ser Thr Gly Asp Val Lys Gln Ser Asn Leu Ile Arg Gln Pro Asp
 435 440 445
 Gly Thr Leu Ala Phe Ile Val Asp Phe Thr Gly Gln Asp Met Lys Lys

450 455 460
 Leu Ala Pro Asp Thr Ala Val Thr Ala Gln Ala Ser Ile Gly Asp Asn
 465 470 475 480
 Gly Glu Ile Val Glu Asn Ala Val Arg Tyr Asn Pro Val Thr Lys Gly
 485 490 495
 Trp Arg Leu Thr Leu Arg Val Lys Val Lys Asp Pro Lys Gln Thr Thr
 500 505 510
 Glu Met Arg Ala Ala Leu Val Ser Asn Asp Lys Pro Leu Ser Glu Thr
 515 520 525
 Trp Ser Tyr Gln Leu Pro Ala Asn Glu
 530 535

<210> 6643

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 6643

Ser Ala Cys Leu Ala Val Arg Gln Leu Thr Leu Glu His Lys Met Lys
 1 5 10 15
 Lys Arg Leu Leu Gly Ile Ala Leu Gly Ser Leu Leu Phe Thr Thr Gly
 20 25 30
 Ser Ala Leu Ala Ala Asp Tyr Lys Ile Asp Lys Glu Gly Gln His Ala
 35 40 45
 Phe Val Asn Phe Arg Ile Gln His Leu Gly Tyr Ser Trp Leu Tyr Gly
 50 55 60
 Thr Phe Asn Asp Phe Asp Gly Thr Phe Thr Phe Asp Glu Lys Asn Pro
 65 70 75 80
 Ala Ala Asp Lys Val Asn Val Thr Ile Asn Thr Asn Ser Val Asp Thr
 85 90 95
 Asn His Ala Glu Arg Asp Lys His Leu Arg Ser Ala Glu Phe Leu Asn
 100 105 110
 Val Gly Lys Phe Pro Gln Ala Thr Phe Ala Ser Thr Glu Val Lys Lys
 115 120 125
 Asp Ser Asp Lys Leu Ala Ile Thr Gly Asn Leu Thr Leu Asn Gly Val
 130 135 140
 Thr Lys Pro Val Thr Leu Asp Ala Lys Leu Ile Gly Gln Gly Asp Asp
 145 150 155 160
 Pro Trp Gly Gly Lys Arg Ala Gly Phe Glu Ala Ala Gly Lys Ile His
 165 170 175
 Leu Lys Asp Phe Asn Ile Thr Thr Asp Leu Gly Pro Ala Ser Gln Asp
 180 185 190
 Val Glu Leu Ile Ile Ser Val Glu Gly Val Gln Gln Lys Ser
 195 200 205

<210> 6644

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 6644

Pro Phe Arg Thr Leu Glu His Arg Thr Asp Met Thr Gln Leu Pro Lys
 1 5 10 15
 Phe Thr Ala Ala Leu Leu His Pro Arg Tyr Trp Leu Thr Trp Ser Gly
 20 25 30
 Ile Gly Leu Leu Trp Leu Ile Val Gln Leu Pro Tyr Pro Val Ile Phe
 35 40 45
 Arg Met Gly Lys Gly Leu Gly Arg Ile Ala Gln Gln Phe Met Lys Arg
 50 55 60
 Arg Ala Arg Ile Ala Tyr Arg Asn Leu Glu Leu Cys Phe Pro Gln Met
 65 70 75 80

Ser Glu Ser Glu Arg His Asp Met Val Val Lys Asn Phe Glu Ser Val
 85 90
 Gly Met Gly Leu Met Glu Thr Gly Met Ala Trp Phe Trp Ser Asp Lys
 100 105
 Arg Met Ala Arg Trp Thr Glu Val Ala Gly Thr Gly Met Glu Pro Val
 115 120
 His Thr Leu Gln Ala Asn Gln Thr Gly Val Leu Leu Ile Gly Val His
 130 135
 Phe Leu Thr Leu Glu Ile Gly Ala Arg Met Phe Gly Met Gln Ala Pro
 145 150
 Gly Ile Gly Val Tyr Arg Pro Asn Asp Asn Pro Val Ile Asp Leu Ile
 165 170
 Gln Thr Asn Gly Arg Met Arg Ser Asn Lys Ser Met Ile Asp Arg Lys
 180 185
 Asp Leu Lys Gly Met Ile Arg Ala Leu Lys Ser Gly Glu Val Val Trp
 195 200
 Tyr Ala Pro Asp His Asp Tyr Gly Pro Gln Ser Ser Val Phe Val Pro
 210 215
 Phe Phe Ala Val Glu Asp Ala Ala Thr Thr Thr Gly Thr Trp Met Leu
 225 230
 Ala Arg Met Ser Lys Ala Ala Ile Val Pro Phe Val Pro Arg Arg Lys
 245 250
 Pro Asp Gly Ser Gly Tyr Gln Leu Ile Met Leu Glu Pro Glu Leu Ala
 260 265
 Pro Pro Leu Ile Asp Ala Glu Thr Thr Ala Arg Trp Met Asn Gly Val
 275 280
 Val Glu Lys Cys Ile Met Leu Ala Pro Glu Gln Tyr Met Trp Leu His
 290 295
 Arg Arg Phe Lys Thr Arg Pro Gln Gly Val Pro Ser Arg Tyr
 305 310

<210> 6645

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 6645

Gln Ala Tyr Tyr Leu Thr Gly His Gly Ala Leu His Leu Ile Met Arg
 1 5 10 15
 Ile Val Met Ser Pro Thr Asp Ala Pro Ile Asn Trp Lys Arg Asn Leu
 20 25 30
 Thr Val Ala Trp Leu Gly Cys Phe Leu Thr Gly Ala Ala Phe Ser Leu
 35 40 45
 Val Met Pro Phe Leu Pro Leu Tyr Val Glu Gln Leu Gly Val Thr Gly
 50 55 60
 His Ser Ala Leu Asn Met Trp Ser Gly Leu Val Phe Ser Ile Thr Phe
 65 70 75 80
 Leu Phe Ser Ala Ile Ala Ser Pro Phe Trp Gly Gly Leu Ala Asp Arg
 85 90 95
 Lys Gly Arg Lys Ile Met Leu Leu Arg Ser Ala Leu Gly Met Ala Ile
 100 105 110
 Ile Met Leu Leu Met Gly Met Ala Gln Asn Val Trp Gln Phe Leu Ile
 115 120 125
 Leu Arg Ala Leu Leu Gly Leu Leu Gly Gly Phe Ile Pro Asn Ala Asn
 130 135 140
 Ala Leu Ile Ala Thr Gln Ile Pro Arg Gln Lys Ser Gly Trp Ala Leu
 145 150 155 160
 Gly Thr Leu Ser Thr Gly Gly Val Ser Gly Ala Leu Leu Gly Pro Leu
 165 170 175
 Ala Gly Gly Leu Leu Ala Asp His Tyr Gly Leu Arg Pro Val Phe Phe
 180 185 190

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Ile Thr Ala Ser Val Leu Phe Leu Cys Phe Leu Val Thr Leu Ile Cys
    195                200                205
Ile Arg Glu Asn Phe Thr Pro Val Ala Lys Lys Glu Met Leu His Ala
    210                215                220
Arg Asp Val Leu Ala Ser Leu Lys Asn Pro Lys Leu Val Leu Ser Leu
    225                230                235
Phe Val Thr Thr Met Ile Ile Gln Val Ala Thr Gly Ser Ile Ala Pro
    245                250                255
Ile Leu Thr Leu Tyr Val Arg Asp Leu Ala Gly Asn Val Ser Asn Ile
    260                265                270
Ala Phe Ile Ser Gly Leu Ile Ala Ser Val Pro Gly Val Ala Ala Leu
    275                280                285
Leu Ser Ala Pro Arg Leu Gly Lys Leu Gly Asp Arg Ile Gly Pro Glu
    290                295                300
Lys Ile Leu Ile Cys Ala Leu Ile Val Ser Val Leu Leu Leu Ile Pro
    305                310                315
Met Ala Met Val Gln Ser Pro Trp Gln Leu Gly Val Leu Arg Phe Leu
    325                330                335
Leu Gly Ala Ala Asp Gly Ala Leu Leu Pro Ala Val Gln Thr Leu Leu
    340                345                350
Val Tyr Asn Ser Thr Asn Gln Ile Ala Gly Arg Ile Phe Ser Tyr Asn
    355                360                365
Gln Ser Phe Arg Asp Leu Gly Asn Val Thr Gly Pro Leu Val Gly Ala
    370                375                380
Gly Ile Ser Ala Ser Phe Gly Phe Arg Ala Val Phe Ile Val Thr Ala
    385                390                395
Gly Val Val Leu Phe Asn Ala Val Tyr Ser Trp Leu Ser Leu Ser Arg
    405                410                415
Ala Leu Arg Pro Gly Arg Ile Arg Gln His Arg Asp Gly
    420                425                430

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<210> 6646

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 6646

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Gly Glu Lys Ser Glu Asn Ala Gln Ser Tyr Met Ser Thr Thr Pro Val
    1          5          10          15
Gln Arg Glu Tyr Phe Leu Asp Ser Ile Arg Ala Trp Leu Met Leu Leu
    20          25          30
Gly Ile Pro Phe His Ile Ser Leu Ile Tyr Ser Ser His Thr Trp His
    35          40          45
Val Asn Ser Gln Met Pro Ser Trp Trp Leu Thr Leu Phe Asn Asp Phe
    50          55          60
Ile His Ala Phe Arg Met Gln Val Phe Phe Val Ile Ser Gly Tyr Phe
    65          70          75
Ser Tyr Met Leu Phe Leu Arg Tyr Pro Leu Lys Arg Trp Trp Lys Val
    85          90          95
Arg Val Glu Arg Val Gly Ile Pro Met Leu Thr Ala Ile Pro Leu Leu
    100         105         110
Thr Leu Pro Gln Phe Ile Met Leu Gln His Val Lys Gly Lys Ala Glu
    115         120         125
Asn Trp Pro Asn Leu Ser Phe Tyr Glu Lys Tyr Asn Thr Leu Val Trp
    130         135         140
Glu Leu Ile Ser His Leu Trp Phe Leu Leu Val Leu Val
    145         150         155

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<210> 6647

<211> 103

<212> PRT

<213> *Enterobacter cloacae*

<400> 6647

Arg Gln Glu Arg Gln Pro Tyr Gly Ala Tyr Pro Gln Asp Gly Ser Glu
 1 5 10 15
 Ala Phe Thr Phe Leu Arg Asn Ile Leu Pro Gly Val Gly Gly Leu Leu
 20 25 30
 Tyr Gly Ala Ala Cys Thr Tyr Asp Asn Thr Leu Asp Glu Asp Phe Ile
 35 40 45
 Ile Asp Thr Leu Pro Gly His Asp Asn Thr Leu Leu Val Thr Gly Leu
 50 55 60
 Ser Gly His Gly Phe Lys Phe Ala Ser Val Leu Gly Glu Ile Ala Ala
 65 70 75 80
 Gln Phe Ala Gln Gly Ile Ala Pro Ser Phe Asp Leu Lys Pro Phe Ala
 85 90 95
 Leu Ser Arg Phe Asp Arg
 100

<210> 6648

<211> 217

<212> PRT

<213> *Enterobacter cloacae*

<400> 6648

Asn Thr Leu Phe Ile Phe Phe Ser Cys Ile Ile Tyr Leu Thr Arg Pro
 1 5 10 15
 Phe Leu Leu Leu Ser His Leu Arg Thr Glu Ile His Met Gln Trp Arg
 20 25 30
 Asn Ser Ser Arg Arg Tyr Gly Ile Ile Ser Met Cys Leu His Trp Leu
 35 40 45
 Phe Ala Ile Ala Val Tyr Ala Met Phe Gly Leu Gly Leu Trp Met Val
 50 55 60
 Thr Leu Ser Tyr Tyr Asp Gly Trp Tyr His Gln Ala Pro Glu Leu His
 65 70 75 80
 Lys Ser Ile Gly Val Leu Leu Met Met Gly Leu Val Phe Arg Val Ile
 85 90 95
 Trp Arg His Ile Ser Pro Pro Pro Pro Ala Pro Lys Ser His Gly Arg
 100 105 110
 Leu Thr Arg Ile Ser Ala Val Gly Ala His Ile Ala Leu Tyr Ala Leu
 115 120 125
 Leu Phe Ala Ile Leu Ile Ser Gly Tyr Leu Ile Ser Thr Ala Asp Gly
 130 135 140
 Lys Pro Ile Ser Val Phe Gly Leu Phe Asp Val Pro Ala Thr Leu Ala
 145 150 155 160
 Asp Ala Gly Ser Gln Ala Asp Thr Ala Gly Val Val His Leu Trp Leu
 165 170 175
 Ala Trp Ser Val Val Ile Leu Ser Val Leu His Gly Leu Ala Ala Leu
 180 185 190
 Lys His His Phe Ile Asp Lys Asp Asp Thr Leu Lys Arg Met Leu Gly
 195 200 205
 Arg Ser Ser Val Asp Ser Gly Ala
 210 215

<210> 6649

<211> 141

<212> PRT

<213> *Enterobacter cloacae*

<400> 6649

Ser Ala Ile Leu Ser Leu Asn Thr Phe Thr Lys Asn Arg Glu Thr Pro
 1 5 10 15

Met Thr Met Tyr Ala Thr Leu Glu Glu Ala Ile Asp Ala Ala Arg Glu
 20 25 30
 Glu Phe Leu Ala Asp Asn Pro Gly Ile Glu Glu Glu Asp Ala Asp Val
 35 40 45
 Gln Gln Leu Asn Ile Gln Lys Tyr Val Leu Gln Asp Gly Asp Ile Met
 50 55 60
 Trp Gln Ala Glu Phe Phe Ala Asp Glu Gly Glu Asp Gly Glu Cys Leu
 65 70 75 80
 Pro Ile Leu Ser Gly Glu Gly Ala Gln Ala Val Phe Asp Gly Asp Tyr
 85 90 95
 Asp Glu Ile Glu Leu Arg Gln Glu Trp Leu Glu Glu Asn Thr Leu His
 100 105 110
 Glu Trp Asp Glu Gly Glu Phe Gln Leu Glu Pro Pro Leu Asp Thr Glu
 115 120 125
 Glu Gly Gln Ala Ala Ala Asp Glu Trp Asp Glu Arg
 130 135 140

<210> 6650

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 6650

Ser His His Pro Ala Cys Val Cys Gly Ser Ala Pro Asp Arg Tyr Arg
 1 5 10 15
 Tyr Pro Pro Ala Pro Ala Ala Glu Asn Thr Leu Pro Gly Ser Gly Thr
 20 25 30
 Ala Ser Ser Val Trp Tyr Ala Gly Gln Pro Trp Asn Gly Trp Arg Ser
 35 40 45
 Pro Thr Gln Thr Ala Thr Gly Ser Ala Arg Arg Arg Leu Ala Pro Ala
 50 55 60
 Arg Thr Gly Asn Ala Asp Pro Ala Arg Pro Tyr Gln Arg Pro Thr Pro
 65 70 75 80
 Gly Pro Ala Ala Ala Glu Ser Arg Gly Ala
 85 90

<210> 6651

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6651

Ser Asn Ser Lys Leu Ile Phe Tyr His Thr Met Ser Lys Thr His Leu
 1 5 10 15
 Thr Glu Gln Lys Phe Ser Asp Phe Ala Leu His Pro Lys Val Ile Glu
 20 25 30
 Ala Leu Glu Thr Lys Gly Phe His Asn Cys Thr Pro Ile Gln Ala Leu
 35 40 45
 Ala Leu Pro Leu Thr Leu Ala Gly Arg Asp Val Ala Gly Gln Ala Gln
 50 55 60
 Thr Gly Thr Gly Lys Thr Met Ala Phe Leu Thr Ser Thr Phe His Tyr
 65 70 75 80
 Leu Leu Ser His Pro Ala Ile Ala Asp Arg Lys Val Asn Gln Pro Arg
 85 90 95
 Ala Leu Ile Met Ala Pro Thr Arg Glu Leu Ala Val Gln Ile His Ala
 100 105 110
 Asp Ala Glu Pro Leu Ala Gln Ala Thr Gly Leu Lys Leu Gly Leu Ala
 115 120 125
 Tyr Gly Gly Asp Gly Tyr Asp Lys Gln Leu Lys Val Leu Glu Ser Gly
 130 135 140
 Val Asp Ile Leu Ile Gly Thr Thr Gly Arg Leu Ile Asp Tyr Ala Lys

```

145          150          155          160
Gln Asn His Ile Asn Leu Gly Ala Ile Gln Val Val Val Leu Asp Glu
165          170          175
Ala Asp Arg Met Tyr Asp Leu Gly Phe Ile Lys Asp Ile Arg Trp Leu
180          185          190
Phe Arg Arg Met Pro Ala Ala Asn Gln Arg Leu Asn Met Leu Phe Ser
195          200          205
Ala Thr Leu Ser Tyr Arg Val Arg Glu Leu Ala Phe Glu Gln Met Asn
210          215          220
Asn Ala Glu Tyr Val Glu Val Glu Pro Glu Gln Lys Thr Gly His Arg
225          230          235          240
Ile Lys Glu Glu Leu Phe Tyr Pro Ser Asn Glu Glu Lys Met Arg Leu
245          250          255
Leu Gln Thr Leu Ile Glu Glu Glu Trp Pro Asp Arg Ala Ile Ile Phe
260          265          270
Ala Asn Thr Lys His Arg Cys Glu Asp Ile Trp Gly His Leu Ala Ala
275          280          285
Asp Gly His Arg Val Gly Leu Leu Thr Gly Asp Val Ala Gln Lys Lys
290          295          300
Arg Leu Arg Ile Leu Asp Glu Phe Thr Arg Gly Asp Leu Asp Ile Leu
305          310          315          320
Val Ala Thr Asp Val Ala Ala Arg Gly Leu His Ile Pro Ala Val Thr
325          330          335
His Val Phe Asn Tyr Asp Leu Pro Asp Asp Cys Glu Asp Tyr Val His
340          345          350
Arg Ile Gly Arg Thr Gly Arg Ala Gly Ala Ser Gly His Ser Ile Ser
355          360          365
Leu Ala Cys Glu Glu Tyr Ala Leu Asn Leu Pro Ala Ile Glu Thr Tyr
370          375          380
Ile Gly His Ser Ile Pro Gln Ser Lys Tyr Asn Pro Glu Ala Leu Leu
385          390          395          400
Ser Glu Leu Pro Pro Pro Lys Arg Leu Thr Arg Pro Arg Ser Gly Asn
405          410          415
Gly Pro Arg Arg Ser Gly Gly Ala Pro Arg Asn Arg Arg Arg Ser Gly
420          425          430

```

<210> 6652

<211> 497

<212> FRT

<213> *Enterobacter cloacae*

<400> 6652

```

Glu Asn Met Leu Ser Ser Thr Ser Leu Tyr Ala Ala Ile Asp Leu Gly
1          5          10          15
Ser Asn Ser Phe His Met Leu Val Val Arg Glu Val Ala Gly Ser Ile
20          25          30
Gln Thr Leu Thr Arg Ile Lys Arg Lys Val Arg Leu Ala Ala Gly Leu
35          40          45
Ser Ser Asp Asn His Leu Ser Pro Glu Ala Met Glu Arg Gly Trp Gln
50          55          60
Cys Leu Arg Leu Phe Ala Glu Arg Leu Gln Asp Ile Pro Leu Ser Gln
65          70          75          80
Ile Arg Val Val Ala Thr Ala Thr Leu Arg Leu Ala Val Asn Ala Gly
85          90          95
Asp Phe Ile Ala Arg Ala Gln Glu Ile Leu Gly Cys Pro Val Gln Val
100          105          110
Ile Ser Gly Glu Glu Glu Ala Arg Leu Ile Tyr Gln Gly Val Ala His
115          120          125
Thr Thr Gly Gly Asp Asp Arg Arg Leu Val Val Asp Ile Gly Gly Ala

```

130	135	140
Ser Thr Glu Leu Val Thr	Gly Thr Gly Ala Gln	Ala Thr Ser Leu Phe
145	150	155
Ser Leu Ser Met Gly Cys Val Thr Trp Leu Glu Arg Tyr Phe Thr Asp		160
	165	170
Arg Asn Leu Ala Lys Glu Asn Phe Asp Glu Ala Glu Asn Ala Ala Arg		175
	180	185
Ala Val Leu Arg Pro Val Met Asp Glu Leu Arg Tyr His Gly Trp Lys		190
	195	200
Val Cys Val Gly Ala Ser Gly Thr Val Gln Ala Leu Gln Glu Ile Met		205
	210	215
Met Ala Gln Gly Met Asp Glu Arg Ile Thr Leu Ala Lys Leu Gln Gln		220
	225	230
Leu Lys Gln Arg Ala Ile Gln Cys Gly Arg Leu Glu Glu Leu Glu Ile		235
	240	245
Glu Gly Leu Thr Leu Glu Arg Ala Leu Val Phe Pro Ser Gly Leu Ala		250
	255	260
Ile Leu Ile Ala Ile Phe Thr Glu Leu Asn Ile Gln Cys Met Thr Leu		265
	270	275
Ala Gly Glu Ala Leu Arg Glu Gly Leu Val Tyr Gly Met Leu His Gln		280
	285	290
Ser Val Asp Gln Asp Ile Arg Ser Arg Thr Leu Arg Asn Val Gln Arg		295
	300	305
Arg Phe Ile Val Asp Thr Asp Gln Ala Gln Arg Val Ser Gln Leu Ala		310
	315	320
Ser Gln Phe Ala Asp Gln Val Lys Ser Trp Asp Ile Glu Pro Leu		325
	330	335
Ser Arg Asp Leu Leu Leu Ser Ala Cys Ala Leu His Glu Ile Gly Leu		340
	345	350
Ser Val Glu Tyr Lys Gln Ala Pro Leu His Ala Ala Trp Leu Val Arg		355
	360	365
Asn Leu Asp Leu Pro Gly Tyr Thr Pro Ala Gln Lys Lys Leu Leu Ala		370
	375	380
Thr Leu Leu Leu Asn Gln Thr Asn Ala Val Asp Leu Ser Ser Leu His		385
	390	395
Gln Gln Asn Ala Val Pro Pro Arg Val Ala Glu His Leu Cys Arg Leu		400
	405	410
Leu Arg Leu Ala Ile Leu Phe Ala Ser Arg Arg Arg Asp Asp Leu Leu		415
	420	425
Pro Ala Ile Thr Leu Ala Ala Asp Asp Glu Lys Leu Thr Leu Thr Leu		430
	435	440
Pro Glu Asn Trp Leu Glu Asp His Pro Leu Gly Ala Glu Leu Ile Glu		445
	450	455
Gln Glu Tyr Gln Trp Gln Ser Tyr Val His Trp Ala Leu Asp Val Lys		460
	465	470
	475	480
	485	490
		495

<210> 6653

<211> 93

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(93)

<400> 6653

Ser Thr Gln Gly Thr Ile Met Ala Lys Thr Ala Ala Ala Leu His Ile	
1	5
	10
Leu Val Lys Glu Glu Lys Leu Ala Gln Asp Leu Leu Glu Gln Ile Lys	15

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<210> 6654
<211> 135
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 6655
<211> 677
<212> PRT
<213> Enterobacter cloacae
```

400> 6655														
Ser	Phe	Met	Arg	Leu	Asn	Pro	Gly	Gln	Gln	Ala	Val	Glu	Phe	Val
1				5				10					15	
Thr	Gly	Pro	Cys	Leu	Val	Leu	Ala	Gly	Ala	Gly	Ser	Gly	Lys	Thr
			20					25				30		Arg
Val	Ile	Thr	Asn	Lys	Ile	Ala	His	Leu	Ile	Arg	Gly	Cys	Gly	Tyr
			35				40					45		Gln
Ala	Arg	His	Ile	Ala	Ala	Val	Thr	Phe	Thr	Asn	Lys	Ala	Ala	Arg
	50					55					60			Glu
Met	Lys	Glu	Arg	Val	Gly	Gln	Thr	Leu	Gly	Arg	Lys	Glu	Ala	Arg
	65				70				75					80
Leu	Met	Ile	Ser	Thr	Phe	His	Thr	Leu	Gly	Leu	Asp	Ile	Ile	Lys
				85					90					95
Glu	Tyr	Ala	Ala	Leu	Gly	Met	Lys	Ser	Asn	Phe	Ser	Leu	Phe	Asp
			100					105					110	Asp
Thr	Asp	Gln	Val	Ala	Leu	Leu	Lys	Gly	Leu	Thr	Glu	Gly	Leu	Ile
		115					120					125		Glu
Asp	Asp	Lys	Val	Leu	Leu	Gln	Gln	Leu	Ile	Ser	Thr	Ile	Ser	Asn
		130					135				140			Trp
Lys	Asn	Asp	Leu	Met	Thr	Pro	Ala	Gln	Ala	Ala	Ala	Ser	Ala	Lys
	145				150					155				160

Glu Arg Asp Arg Ile Phe Ala His Cys Tyr Gly Leu Tyr Asp Ala His
 165 170 175
 Met Lys Ala Cys Asn Val Leu Asp Phe Asp Asp Leu Ile Leu Leu Pro
 180 185 190
 Thr Leu Leu Leu Gln Arg Asn Glu Glu Val Arg Glu Arg Trp Gln Asn
 195 200 205
 Lys Ile Arg Tyr Leu Leu Val Asp Glu Tyr Gln Asp Thr Asn Thr Ser
 210 215 220
 Gln Tyr Glu Leu Val Lys Leu Leu Val Gly Gln Arg Ala Arg Phe Thr
 225 230 235 240
 Val Val Gly Asp Asp Gln Ser Ile Tyr Ser Trp Arg Gly Ala Arg
 245 250 255
 Pro Gln Asn Leu Val Leu Leu Ser Lys Asp Phe Pro Ala Leu Gln Val
 260 265 270
 Ile Lys Leu Glu Gln Asn Tyr Arg Ser Ser Gly Arg Ile Leu Lys Ala
 275 280 285
 Ala Asn Ile Leu Ile Ala Asn Asn Pro His Val Phe Glu Lys Arg Leu
 290 295 300
 Phe Ser Glu Leu Gly Tyr Gly Thr Glu Leu Lys Val Leu Ser Ala Asn
 305 310 315 320
 Asn Glu Glu His Glu Ala Glu Arg Val Thr Gly Glu Leu Ile Ala His
 325 330 335
 His Phe Val Asn Lys Thr Glu Tyr Lys Asp Tyr Ala Ile Leu Tyr Arg
 340 345 350
 Gly Asn His Gln Ser Arg Val Phe Glu Lys Met Leu Met Gln Asn Arg
 355 360 365
 Ile Pro Tyr Lys Ile Ser Gly Gly Thr Ser Phe Phe Ser Arg Pro Glu
 370 375 380
 Ile Lys Asp Leu Leu Ala Tyr Leu Arg Val Leu Thr Asn Pro Asp Asp
 385 390 395 400
 Asp Ser Ala Phe Leu Arg Ile Val Asn Thr Pro Lys Arg Glu Ile Gly
 405 410 415
 Ser Ala Thr Leu Gln Lys Leu Gly Glu Trp Ala Met Thr Arg Asn Lys
 420 425 430
 Ser Leu Phe Thr Ala Ser Phe Asp Met Gly Leu Ser Gln Thr Leu Thr
 435 440 445
 Gly Arg Gly Tyr Glu Ala Leu Thr Arg Phe Thr His Trp Leu Gly Glu
 450 455 460
 Val Gln Arg Leu Ala Glu Arg Glu Pro Val Ala Ala Val Arg Asp Leu
 465 470 475 480
 Ile His Gly Ile Asp Tyr Glu Ser Trp Leu Tyr Glu Thr Ser Ala Ser
 485 490 495
 Pro Lys Ala Ala Glu Met Arg Met Lys Asn Val Asn Gln Leu Phe Ser
 500 505 510
 Trp Met Thr Glu Met Leu Glu Gly Ser Glu Ile Asp Glu Pro Met Thr
 515 520 525
 Leu Thr Gln Val Val Thr Arg Phe Thr Leu Arg Asp Met Met Glu Arg
 530 535 540
 Gly Glu Ser Glu Glu Glu Ala Asp Gln Val Gln Leu Met Thr Leu His
 545 550 555 560
 Ala Ser Lys Gly Leu Glu Phe Pro Tyr Val Tyr Leu Val Gly Met Glu
 565 570 575
 Glu Gly Leu Leu Pro His Gln Ser Ser Ile Asp Glu Asp Asn Val Asp
 580 585 590
 Glu Glu Arg Arg Leu Ala Tyr Val Gly Ile Thr Arg Ala Gln Lys Glu
 595 600 605
 Leu Thr Phe Thr Leu Cys Lys Glu Arg Arg Gln Tyr Gly Glu Leu Val
 610 615 620
 Arg Pro Glu Pro Ser Arg Phe Leu Leu Glu Leu Pro Gln Asp Asp Leu
 625 630 635 640
 Ile Trp Glu Gln Glu Arg Lys Val Ile Thr Ala Glu Glu Arg Met His

400> 657	Thr	Gly	Met	Asp	Asp	Pro	Ala	Ile	Pro	Phe	Thr	Thr	Leu	Ser	Ser	Arg
1				5						10					15	
Ile	Thr	Pro	Ser	Leu	Arg	Thr	His	Thr	25	Ile	Met	Asn	Leu	Thr	Glu	Leu
Lys	Asn	Thr	Pro	Val	Ser	Glu	Leu	Ile	Thr	Leu	Gly	Glu	Asn	Met	Gly	
		35					40					45				
Leu	Glu	Asn	Gln	Ala	Arg	Met	Arg	Lys	Gln	Asp	Ile	Ile	Phe	Ala	Ile	
		50				55					60					
Leu	Lys	Gln	His	Ala	Lys	Ser	Gly	Glu	Asp	Ile	Phe	Gly	Asp	Gly	Val	
65					70					75					80	
Leu	Glu	Ile	Leu	Gln	Asp	Gly	Phe	Gly	Phe	Leu	Arg	Ser	Ala	Asp	Ser	
				85					90					95		
Ser	Tyr	Leu	Ala	Gly	Pro	Asp	Asp	Ile	Tyr	Val	Ser	Pro	Ser	Gln	Ile	
		100						105					110			
Arg	Arg	Phe	Asn	Leu	Arg	Thr	Gly	Asp	Thr	Ile	Ser	Gly	Lys	Ile	Arg	
		115					120					125				
Pro	Pro	Lys	Glu	Gly	Glu	Arg	Tyr	Phe	Ala	Leu	Leu	Lys	Val	Asn	Glu	
		130				135					140					
Val	Asn	Tyr	Asp	Lys	Pro	Glu	Asn	Ser	Arg	Asn	Lys	Ile	Leu	Phe	Glu	
145					150					155				160		

```

Asn Leu Thr Pro Leu His Ala Asn Ser Arg Leu Arg Met Glu Arg Gly
      165      170      175
Asn Gly Ser Thr Glu Asp Leu Thr Ala Arg Val Leu Asp Leu Ala Ser
      180      185      190
Pro Ile Gly Arg Gly Gln Arg Gly Leu Ile Val Ala Pro Pro Lys Ala
      195      200      205
Gly Lys Thr Met Leu Leu Gln Asn Ile Ala Gln Ser Ile Ala Tyr Asn
      210      215      220
His Pro Asp Cys Val Leu Met Val Leu Leu Ile Asp Glu Arg Pro Glu
      225      230      235      240
Glu Val Thr Glu Met Gln Arg Leu Val Lys Gly Glu Val Val Ala Ser
      245      250      255
Thr Phe Asp Glu Pro Ala Ser Arg His Val Gln Val Ala Glu Met Val
      260      265      270
Ile Glu Lys Ala Lys Arg Leu Val Glu His Lys Lys Asp Val Ile Ile
      275      280      285
Leu Leu Asp Ser Ile Thr Arg Leu Ala Arg Ala Tyr Asn Thr Val Val
      290      295      300
Pro Ala Ser Gly Lys Val Leu Thr Gly Gly Val Asp Ala Asn Ala Leu
      305      310      315      320
His Arg Pro Lys Arg Phe Phe Gly Ala Ala Arg Asn Val Glu Glu Gly
      325      330      335
Gly Ser Leu Thr Ile Ile Ala Thr Ala Leu Ile Asp Thr Gly Ser Lys
      340      345      350
Met Asp Glu Val Ile Tyr Glu Glu Phe Lys Gly Thr Gly Asn Met Glu
      355      360      365
Leu His Leu Ser Arg Lys Ile Ala Glu Lys Arg Val Phe Pro Ala Ile
      370      375      380
Asp Tyr Asn Arg Ser Gly Thr Arg Lys Glu Glu Leu Leu Thr Thr Gln
      385      390      395      400
Glu Glu Leu Gln Lys Met Trp Ile Leu Arg Lys Ile Ile His Pro Met
      405      410      415
Gly Glu Ile Asp Ala Met Glu Phe Leu Ile Asn Lys Leu Ala Met Thr
      420      425      430
Lys Thr Asn Asp Asp Phe Phe Asp Met Met Lys Arg Ser
      435      440      445

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<210> 6658

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6658

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Val Lys Val Val Ile Met Gly Gln Asp Pro Tyr His Gly Pro Gly Gln
1      5      10      15
Ala His Gly Leu Ala Phe Ser Val Arg Pro Gly Val Ala Ile Pro Pro
      20      25      30
Phe Leu Leu Asn Met Tyr Lys Glu Leu Glu Gly Thr Ile Pro Gly Phe
      35      40      45
Thr Arg Pro Asn His Gly Tyr Leu Glu Ser Trp Ala Arg Gln Gly Val
      50      55      60
Leu Leu Leu Asn Thr Val Leu Thr Val Arg Ala Gly Gln Ala His Ser
      65      70      75      80
His Ala Ser Leu Gly Trp Glu Thr Phe Thr Asp Lys Val Ile Ser Leu
      85      90      95
Ile Asn Glu His Arg Glu Gly Val Val Phe Leu Leu Trp Gly Ser His
      100      105      110
Ala Gln Lys Lys Gly Ala Ile Ile Asp Arg Gln Arg His His Val Leu
      115      120      125
Lys Ala Pro His Pro Ser Pro Leu Ser Ala His Arg Gly Phe Phe Gly
      130      135      140

```

Ser Asn His Phe Val Leu Thr Asn Glu Trp Leu Glu Lys Arg Gly Glu
 145 150 155 160
 Lys Pro Ile Asp Trp Met Pro Val Leu Pro Ala Glu Ser Glu
 165 170 175

<210> 6659

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6659

Lys Ile Ser Val Trp Arg Gly Arg Leu Thr Thr Pro Phe Pro Phe Gly
 1 5 10 15
 Phe Phe Ser Arg Leu Leu Pro Phe Phe Asp Lys Ile Thr Thr Gln Ile
 20 25 30
 Thr Met Leu Ile Ile Asp Leu Asp Asn Lys Ile His Arg Lys Asn Met
 35 40 45
 Met Lys His Ile Ser Gly Lys Ala Ala Leu Leu Ala Leu Ser Met Ile
 50 55 60
 Ser Ala Thr Ala Tyr Ala Ser His Trp Ser Tyr Gln Gly Glu Gly Ala
 65 70 75 80
 Pro Glu His Trp Gly Glu Leu Asp Glu Ala Tyr Lys Thr Cys Lys Ser
 85 90 95
 Gly Met Tyr Gln Ser Pro Val Asn Ile Asp Asn Thr Val Lys Ala His
 100 105 110
 Ile Ser Pro Leu Glu Thr His Tyr Ile Asp Gly Pro Val Ile Leu Thr
 115 120 125
 Asn Asn Gly His Thr Ile Gln Ala Ser Glu Asn Ala Asp Thr Arg Asp
 130 135 140
 Ser Ile Thr Leu Asp Lys Gln Arg Trp Thr Leu Gln Gln Phe His Phe
 145 150 155 160
 His Ala Pro Ser Glu Asn Thr Val His Gly Lys Lys Tyr Ala Met Glu
 165 170 175
 Met His Leu Val His Lys Asn Ala Asp Gly Glu Leu Thr Val Val Ala
 180 185 190
 Val Met Phe Asp Gln Gly Ala Ala Asn Thr Glu Leu Asp Lys Leu Trp
 195 200 205
 Gly Val Met Pro Gly Gln Val Asp Gln Asn Val Thr Ile Lys Pro Thr
 210 215 220
 Leu Asp Met Asn Lys Leu Leu Pro Ala Asp Lys Thr Tyr Trp Arg Phe
 225 230 235 240
 Ser Gly Ser Leu Thr Thr Pro Pro Cys Ser Glu Gly Val Thr Trp Leu
 245 250 255
 Val Leu Lys His Pro Leu Thr Val Ser Ala Glu Gln Leu Gln Lys Phe
 260 265 270
 Thr His Thr Leu His His Glu Asn Ser Arg Pro Val Gln Pro Leu His
 275 280 285
 Gly Arg Leu Val Val Glu
 290 295

<210> 6660

<211> 383

<212> PRT

<213> Enterobacter cloacae

<400> 6660

Gly Thr Val Met Thr Asn His Phe Arg Cys Leu Pro Leu Ser Gly Phe
 1 5 10 15
 Ile Val Cys Ala Ala Leu Leu Thr Gly Cys Asp Gly Gln Gln Asn Pro
 20 25 30
 Gln Gln His Ala Gln Ala Pro Gln Val Ser Val His Ile Val Lys Ser

35 40 45
 Ala Pro Leu Ala Val Thr Thr Glu Leu Pro Gly Arg Thr Asp Ala Tyr
 50 55 60
 Arg Val Ala Glu Val Arg Pro Gln Val Ser Gly Ile Ile Leu His Arg
 65 70 75 80
 Asn Phe Thr Glu Gly Ser Asp Val Lys Ala Gly Glu Ser Leu Tyr Gln
 85 90 95
 Ile Asp Pro Ala Thr Tyr Gln Ala Ala Tyr Asp Asn Ala Lys Gly Glu
 100 105 110
 Leu Val Lys Ala Gln Ala Ala Ala Asn Ile Ala His Leu Thr Val Lys
 115 120 125
 Arg Tyr Val Pro Leu Val Gly Thr Gln Tyr Val Ser Lys Gln Glu Tyr
 130 135 140
 Asp Gln Ala Val Ala Thr Ala Gln Gln Ala Asp Ala Ser Val Val Ala
 145 150 155 160
 Ala Lys Ala Gly Val Glu Ser Ala Arg Ile Asn Leu Ala Tyr Thr Lys
 165 170 175
 Val Thr Ser Pro Ile Asn Gly Arg Ile Gly Lys Ser Ser Val Thr Glu
 180 185 190
 Gly Ala Leu Val Thr Asn Gly Gln Ser Thr Ala Leu Ala Thr Val Gln
 195 200 205
 Gln Leu Asp Pro Ile Tyr Val Asp Val Thr Gln Ser Ser Asp Phe
 210 215 220
 Met Arg Leu Lys Gln Gln Thr Ser Leu Gln Lys Gly Asp Thr Ser Ser
 225 230 235 240
 Val Glu Leu Leu Met Glu Asn Gly Gln Pro Tyr Pro Leu Lys Gly Thr
 245 250 255
 Leu Gln Phe Ser Asp Val Thr Val Asp Glu Ser Thr Gly Ser Ile Thr
 260 265 270
 Leu Arg Ala Leu Phe Pro Asn Pro Gln His Met Leu Leu Pro Gly Met
 275 280 285
 Phe Val Arg Ala Arg Ile Asp Glu Gly Thr Gln Pro Asp Ala Ile Leu
 290 295 300
 Val Pro Gln Gln Gly Val Thr Arg Thr Pro Arg Gly Asp Ala Thr Val
 305 310 315 320
 Leu Val Val Asn Asp Lys Asn Gln Val Glu Ser Arg Thr Val Val Ala
 325 330 335
 Pro Gln Ala Ile Gly Asp Arg Trp Leu Ile Thr Glu Gly Leu Lys Asn
 340 345 350
 Gly Asp Arg Val Ile Ile Ser Gly Leu Gln Lys Val Arg Pro Gly Val
 355 360 365
 Thr Val Val Ala Ile Pro Asp Thr Ala Ala Thr Pro Ala Ser
 370 375 380

<210> 6661

<211> 425

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (125)

<220>

<221> UNSURE

<222> (135)

<400> 6661

Asp Lys Ile Val Asp Val His Ser Ser Ala Asp Arg Asp Leu Lys His
 1 5 10 15
 Val Leu Leu Ala Asp Glu Thr Val Cys Ile Gly Pro Ala Pro Ser Val

20 25 30
 Lys Ser Tyr Leu Asn Ile Pro Ala Ile Ile Ser Ala Ala Glu Ile Thr
 35 40 45
 Gly Ala Val Ala Ile His Pro Gly Tyr Gly Phe Leu Ser Glu Asn Ala
 50 55 60
 Asn Phe Ala Glu Gln Val Glu Arg Ser Gly Phe Ile Phe Ile Gly Pro
 65 70 75 80
 Lys Ala Asp Thr Ile Arg Leu Met Gly Asp Lys Val Ser Ala Ile Thr
 85 90 95
 Ala Met Lys Lys Ala Gly Val Pro Thr Val Pro Gly Ser Asp Gly Pro
 100 105 110
 Leu Thr Asp Asp Met Asp Ala Asn Arg Ala His Ala Xaa Arg Ile Gly
 115 120 125
 Tyr Pro Val Ile Ile Lys Xaa Ser Gly Arg Arg Gly Gly Arg Gly Met
 130 135 140
 Arg Val Val Arg Ser Asp Ala Glu Leu Ala Gln Ser Ile Ser Met Thr
 145 150 155 160
 Lys Ala Glu Ala Lys Ala Ala Leu Ser Asn Asp Met Val Tyr Met Glu
 165 170 175
 Lys Tyr Leu Glu Asn Pro Arg His Ile Glu Ile Gln Val Leu Ala Asp
 180 185 190
 Gly Gln Gly Asn Ala Ile Tyr Leu Ala Glu Arg Asp Cys Ser Met Gln
 195 200 205
 Arg Arg His Gln Lys Val Val Glu Glu Ala Pro Ala Pro Gly Ile Thr
 210 215 220
 Pro Glu Leu Arg Arg Tyr Ile Gly Glu Arg Cys Ala Lys Ala Cys Val
 225 230 235 240
 Asp Ile Gly Tyr Arg Gly Ala Gly Thr Phe Glu Phe Leu Phe Glu Asn
 245 250 255
 Gly Glu Phe Tyr Phe Ile Glu Met Asn Thr Arg Ile Gln Val Glu His
 260 265 270
 Pro Val Thr Glu Met Ile Thr Gly Val Asp Leu Ile Lys Glu Gln Leu
 275 280 285
 Arg Ile Ala Ala Gly Gln Pro Leu Ser Ile Lys Gln Glu Glu Val Val
 290 295 300
 Val Lys Gly His Ala Val Glu Cys Arg Ile Asn Ala Glu Asp Pro Asn
 305 310 315 320
 Thr Phe Leu Pro Ser Pro Gly Lys Ile Thr Arg Phe His Ala Pro Gly
 325 330 335
 Gly Phe Gly Val Arg Trp Glu Ser His Ile Tyr Ala Gly Tyr Thr Val
 340 345 350
 Pro Pro Tyr Asp Ser Met Ile Gly Lys Leu Ile Cys Tyr Gly Glu
 355 360 365
 Asn Arg Asp Val Ala Ile Ala Arg Met Lys Asn Ala Leu Gln Glu Leu
 370 375 380
 Ile Ile Asp Gly Ile Lys Thr Asn Val Asp Leu Gln Met Arg Ile Met
 385 390 395 400
 Ser Asp Glu His Phe Gln Asn Gly Gly Thr Asn Ile His Tyr Leu Glu
 405 410 415
 Lys Lys Leu Gly Leu Asn Glu Lys
 420 425

<210> 6662

<211> 97

<212> PRT

<213> Enterobacter cloacae

<400> 6662

Ala Pro Ser Cys Thr Ile Pro Ala Phe Phe Ile His Lys Gly Gln Lys
 1 5 10 15
 Met Asp Lys Arg Phe Val Gln Ala His Lys Glu Ala Arg Trp Ala Leu

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<210> 6663
<211> 300
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6664
<211> 104
<212> PRT
<213> Enterobacter cloacae
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<400> 6664

Arg Ala Asp Arg Thr Met Phe Glu Gln Arg Val Asn Ser Asp Val Leu
 1 5 10 15
 Thr Val Ser Thr Val Asn Ser Gln Asp Gln Val Thr Gln Lys Pro Leu
 20 25 30
 Arg Asp Ser Val Lys Gln Ala Leu Lys Asn Tyr Phe Ala Gln Leu Asn
 35 40 45
 Gly Gln Asp Val Asn Asp Leu Tyr Glu Leu Val Leu Ala Glu Val Glu
 50 55 60
 Gln Pro Leu Leu Asp Met Val Met Gln Tyr Thr Arg Gly Asn Gln Thr
 65 70 75 80
 Arg Ala Ala Leu Met Met Gly Ile Asn Arg Gly Thr Leu Arg Lys Lys
 85 90 95
 Leu Lys Lys Tyr Gly Met Asn
 100

<210> 6665

<211> 751

<212> PRT

<213> Enterobacter cloacae

<400> 6665

Thr Gly Gln Leu Leu Arg Ala Gly Leu Thr Ala Ser Ile Leu Tyr Lys
 1 5 10 15
 Thr Leu Leu Thr Pro Asn Lys Asn Arg Gly Leu Asn His Phe Ser Ser
 20 25 30
 Phe Pro Asp Asp Asp Asn Val Cys Pro Leu Ser Asn Arg Ser Cys Leu
 35 40 45
 Thr Ser His Thr Ser Glu Gln Thr Met Leu Val Ser Gln Tyr Asn Gln
 50 55 60
 Ile Leu Val Val Ile Ser Phe Val Val Ala Ile Leu Ala Ala Tyr Thr
 65 70 75 80
 Ala Leu Asn Met Ala Ala Arg Val Ala Gly Ser Gln Gly Val Ala Ala
 85 90 95
 Arg Val Trp Leu Ala Gly Gly Gly Val Ser Met Gly Ile Gly Val Trp
 100 105 110
 Ala Met His Phe Ile Gly Met Leu Ala Met Asp Leu Ser Met Ser Met
 115 120 125
 Ser Tyr Asn Ala Ala Leu Thr Val Leu Ser Met Val Ile Ala Ile Ser
 130 135 140
 Ser Ser Met Phe Ala Leu Trp Leu Val Ser Gly Glu Gln Leu Arg Leu
 145 150 155 160
 Arg Arg Leu Leu Pro Gly Ala Val Val Met Gly Thr Gly Ile Val Ala
 165 170 175
 Met His Tyr Thr Gly Met Ala Ala Leu Glu Val Thr Pro Gly Ile Val
 180 185 190
 Trp Asp Lys Thr Trp Val Ala Ile Ser Val Val Ile Ala Leu Ala Ala
 195 200 205
 Ser Leu Ala Ala Leu Trp Leu Thr Phe Arg Leu Arg Gln Glu Ala Ala
 210 215 220
 Arg Met Ala Leu Met Arg Leu Gly Ala Ala Ile Thr Met Gly Ile Ala
 225 230 235 240
 Ile Ala Gly Met His Tyr Ala Gly Met Glu Ala Ala Gln Phe Pro Met
 245 250 255
 Ser Thr Met Val His His His Gly Ile Asn Gly Ser Trp Leu Ala Ile
 260 265 270
 Leu Val Ser Val Val Ala Leu Ala Ile Leu Gly Ile Thr Leu Leu Val
 275 280 285
 Ser Met Phe Asp Ala Arg Leu Gln Ala Arg Thr Ser Leu Leu Ala Ser
 290 295 300

Ser Leu Ala Glu Ala Asn Arg Glu Leu Ala Gln Leu Ala Leu His Asp
 305 310 315 320
 Thr Leu Thr Arg Leu Pro Asn Arg Ile Leu Leu Glu Asp Arg Leu Asp
 325 330 335
 Gln Ala Ile Ser Lys Ala Asp Arg Glu Gly Ser Pro Phe Ala Leu Met
 340 345 350
 Phe Met Asp Leu Asp Gly Phe Lys Thr Val Asn Asp Ala Tyr Gly His
 355 360 365
 Asp Val Gly Asp Lys Leu Leu Val Ala Val Thr Gln Arg Leu Leu Leu
 370 375 380
 Gln Leu Lys Gly Gln Tyr Thr Leu Ala Arg Ile Gly Gly Asp Glu Phe
 385 390 395 400
 Val Leu Leu Ala Glu Thr Ala Thr Pro Asp Asp Ala Ala Ser Leu Ala
 405 410 415
 Asn Ser Leu Val Arg Val Ile Asp Ser Pro Phe His Leu Asp Pro Tyr
 420 425 430
 Glu Leu Met Val Thr Leu Ser Ile Gly Ile Ala Leu Tyr Pro His Asp
 435 440 445
 Gly Lys Thr Asp Arg Glu Leu Met Phe Asn Ala Asp Ala Ala Met Tyr
 450 455 460
 His Thr Lys His Met Gly Arg Asn Gly Tyr His Phe Phe Gln Pro Ser
 465 470 475 480
 Met Asn Thr Leu Ala Gln Thr His Leu Gln Leu Met Asn Asp Leu Trp
 485 490 495
 Gln Ala Ile Asp Arg Asp Glu Leu Arg Leu Tyr Gln Pro Lys Phe
 500 505 510
 His Ala Pro Ala Gly Pro Val Ile Gly Phe Glu Ala Leu Leu Arg Trp
 515 520 525
 Gln His Pro Lys Gln Gly Leu Leu Ser Pro Asp Leu Phe Leu Pro Leu
 530 535 540
 Ala Glu Lys Thr Gly Leu Ile Ile Pro Ile Gly Asn Trp Val Ile Asp
 545 550 555 560
 Glu Ala Cys Arg Gln Leu Arg Glu Trp His Leu Gln Gly His Thr Asp
 565 570 575
 Trp Ser Met Ala Val Asn Leu Ser Thr Leu Gln Phe Glu Gln Pro Ser
 580 585 590
 Leu Val Lys Thr Val Leu Asp Cys Leu Thr Arg His Ser Val Pro Pro
 595 600 605
 Gly Met Leu Ile Leu Glu Val Thr Glu Thr Thr Ala Met Ser Asn Pro
 610 615 620
 Asp Glu Ser Val Arg Val Leu Thr Ala Leu Thr Asp Ala Gly Val Lys
 625 630 635 640
 Ala Ser Ile Asp Asp Phe Gly Thr Gly Tyr Ser Ser Leu Leu Tyr Leu
 645 650 655
 Lys Arg Leu Pro Ala Cys Glu Leu Lys Ile Asp Arg Ala Phe Val Lys
 660 665 670
 Glu Leu Ser Gly Glu Ser Glu Asp Ala Thr Ile Val Ser Ala Ile Val
 675 680 685
 Ala Leu Ala Lys Thr Leu Asn Leu Lys Val Val Ala Glu Gly Val Glu
 690 695 700
 Thr Ala Ala Gln Gln Thr Phe Leu Thr Glu Leu Gly Cys Asn Thr Leu
 705 710 715 720
 Gln Gly Tyr Leu Leu Gly Lys Pro Ile Thr Ala Gln Ala Ile Met Glu
 725 730 735
 Gln Cys Gln His Gly Glu Met Ser Pro Pro Arg Ala Gln Ser
 740 745 750

<210> 6666

<211> 496

<212> PRT

<213> Enterobacter cloacae

<400> 6666

Asn Ser Ser Ile Ala Ile Phe His Trp Arg Thr Met Met Gln Leu Glu
 1 5 10 15
 Val Ile Leu Pro Leu Ile Ala Tyr Leu Cys Leu Val Phe Gly Leu Ser
 20 25 30
 Val Tyr Ala Met Arg Lys Arg Ser Thr Gly Thr Phe Leu Asn Glu Tyr
 35 40 45
 Phe Leu Gly Ser Arg Ser Met Gly Gly Val Val Leu Ala Met Thr Leu
 50 55 60
 Thr Ala Thr Tyr Ile Ser Ala Ser Ser Phe Ile Gly Gly Pro Gly Ala
 65 70 75 80
 Ala Tyr Lys Tyr Gly Leu Gly Trp Val Leu Leu Ala Met Ile Gln Leu
 85 90 95
 Pro Ala Ile Trp Leu Ser Leu Gly Ile Leu Gly Lys Lys Phe Ala Ile
 100 105 110
 Leu Ala Arg Arg Tyr Asn Ala Val Thr Leu Asn Asp Met Leu Phe Ala
 115 120 125
 Arg Tyr Gln Ser Arg Leu Leu Val Trp Leu Ala Ser Leu Ser Leu Leu
 130 135 140
 Val Ala Phe Ile Gly Ala Met Thr Val Gln Phe Ile Gly Gly Ala Arg
 145 150 155 160
 Leu Leu Glu Thr Ala Ala Gly Ile Pro Tyr Glu Thr Gly Leu Val Ile
 165 170 175
 Phe Gly Val Ser Ile Ala Leu Tyr Thr Ala Phe Gly Gly Phe Arg Ala
 180 185 190
 Ser Val Leu Asn Asp Thr Met Gln Gly Met Val Met Leu Ile Gly Thr
 195 200 205
 Leu Val Leu Leu Val Gly Ile Val His Ala Ala Gly Leu Ser His
 210 215 220
 Ala Val Glu Thr Leu Glu Ala Ile Asp Pro Lys Leu Val Ser Pro Gln
 225 230 235 240
 Gly Ala Asp Asp Ile Leu Ser Pro Thr Phe Met Thr Ser Phe Trp Val
 245 250 255
 Leu Val Cys Phe Gly Val Ile Gly Leu Pro His Thr Ala Val Arg Cys
 260 265 270
 Ile Ser Tyr Lys Asp Ser Lys Ala Val His Arg Gly Ile Ile Ile Gly
 275 280 285
 Thr Ile Val Val Ala Ile Leu Met Phe Gly Met His Leu Ala Gly Ala
 290 295 300
 Leu Gly Arg Ala Val Ile Pro Asp Leu Thr Val Pro Asp Leu Val Ile
 305 310 315 320
 Pro Thr Leu Met Val Lys Val Leu Pro Pro Phe Ala Ala Gly Ile Phe
 325 330 335
 Leu Ala Ala Pro Met Ala Ala Ile Met Ser Thr Ile Asn Ala Gln Leu
 340 345 350
 Leu Gln Ser Ser Ala Thr Ile Ile Lys Asp Leu Tyr Leu Asn Leu Arg
 355 360 365
 Pro Glu Gln Val Glu Asn Glu Arg Arg Leu Lys Arg Met Ser Ala Val
 370 375 380
 Ile Thr Leu Val Leu Gly Ala Leu Leu Leu Ala Ala Trp Arg Pro
 385 390 395 400
 Pro Glu Met Ile Ile Trp Leu Asn Leu Leu Ala Phe Gly Gly Leu Glu
 405 410 415
 Ala Val Phe Leu Trp Pro Leu Val Leu Gly Leu Tyr Trp Glu Arg Ala
 420 425 430
 Asn Ala Ala Gly Ala Leu Ser Gly Met Ile Val Gly Gly Val Leu Tyr
 435 440 445
 Ala Val Leu Ala Thr Phe Lys Ile Gln Tyr Leu Gly Phe His Pro Ile
 450 455 460
 Val Pro Ser Leu Leu Leu Ser Leu Leu Ala Phe Val Val Gly Asn Arg

465 470 475 480
 Phe Gly Arg Pro Val Pro Gln Thr Ala Leu Ile Ser Thr Asp Lys
 485 490 495

<210> 6667
 <211> 323
 <212> PRT
 <213> Enterobacter cloacae

<400> 6667
 Leu Met Arg Ile Gly His His Gln Leu Arg Asn Arg Leu Ile Ala Ala
 1 5 10 15
 Pro Met Ala Gly Ile Thr Asp Arg Pro Phe Arg Thr Leu Cys Tyr Glu
 20 25 30
 Met Gly Ala Gly Leu Thr Val Ser Glu Met Met Ser Ser Asn Pro Gln
 35 40 45
 Val Trp Glu Ser Asp Lys Ser Arg Leu Arg Met Val His Val Asp Glu
 50 55 60
 Pro Gly Ile Arg Thr Val Gln Ile Ala Gly Ser Val Pro Glu Glu Met
 65 70 75 80
 Ala Asp Ala Ala Arg Ile Asn Val Glu Ser Gly Ala Gln Ile Ile Asp
 85 90 95
 Ile Asn Met Gly Cys Pro Ala Lys Lys Val Asn Arg Lys Leu Ala Gly
 100 105 110
 Ser Ala Leu Leu Gln Tyr Pro Asp Gln Val Lys Ser Ile Leu Thr Ala
 115 120 125
 Val Val Ser Ala Val Asp Val Pro Val Thr Leu Lys Ile Arg Thr Gly
 130 135 140
 Trp Ser Pro Glu His Arg Asn Cys Val Glu Ile Ala Gln Leu Ala Glu
 145 150 155 160
 Asp Cys Gly Ile Gln Ala Leu Thr Ile His Gly Arg Thr Arg Ala Cys
 165 170 175
 Leu Phe Asn Gly Glu Ala Glu Tyr Asp Ser Ile Arg Ala Val Lys Gln
 180 185 190
 Lys Val Ser Ile Pro Val Ile Ala Asn Gly Asp Ile Thr Asp Pro Leu
 195 200 205
 Lys Ala Arg Ala Val Leu Asp Tyr Thr Gly Ala Asp Ala Leu Met Ile
 210 215 220
 Gly Arg Ala Ala Gln Gly Arg Pro Trp Ile Phe Arg Glu Ile Gln His
 225 230 235 240
 Tyr Leu Asp Thr Gly Glu Leu Leu Ala Pro Leu Pro Leu Ala Glu Val
 245 250 255
 Lys Arg Leu Leu Cys Ser His Val Arg Glu Leu His Asp His Tyr Gly
 260 265 270
 Gln Ala Lys Gly Tyr Arg Ile Ala Arg Lys His Val Ser Trp Tyr Leu
 275 280 285
 Gln Glu His Ala Pro Asn Asp Gln Phe Arg Arg Thr Phe Asn Ala Ile
 290 295 300
 Glu Asp Ala Ser Glu Gln Leu Glu Ala Leu Glu Ala Tyr Phe Glu Asn
 305 310 315 320
 Leu Ala

<210> 6668
 <211> 78
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (78)

<400> 6668

Tyr Arg Arg Asp Ser Ser Gln Leu Arg Asn Asn Asp Met Ala Asn Phe
 1 5 10 15
 Phe Ile Gln Arg Pro Val Phe Ala Trp Val Leu Ala Ile Ile Leu Met
 20 25 30
 Ile Ala Gly Gly Leu Ala Ile Leu Lys Leu Pro Val Ala Gln Tyr Pro
 35 40 45
 Thr Ile Ala Pro Pro Ala Val Ala Val Thr Ala Thr Tyr Pro Gly Ala
 50 55 60
 Asp Ala Gln Thr Val Gln Asp Thr Val Thr Gln Val Ile Xaa
 65 70 75

<210> 6669

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 6669

Gln Val Met Ala Arg Lys Lys Lys Glu Glu Ala Gln Lys Thr Arg Gln
 1 5 10 15
 Gln Leu Ile Glu Ala Ala Ile Arg Leu Phe Ala Thr Arg Gly Val Ala
 20 25 30
 Ser Thr Thr Leu Thr Asp Ile Ala Asp Ala Ala Gln Leu Thr Arg Gly
 35 40 45
 Ala Val Tyr Trp His Phe Ser Ser Lys Ala Glu Ile Phe Asn Ala Ile
 50 55 60
 Trp Glu Gln Gln Leu Pro Leu Arg Glu Ile Ile Arg Asp Arg Leu Met
 65 70 75 80
 Leu Ser Glu Asn Asp Asp Pro Leu Leu Met Leu Arg Glu Gln Phe Ile
 85 90 95
 Val Ala Leu Gln Tyr Ile Ala Ser Glu Pro Arg Gln Tyr Ala Leu Leu
 100 105 110
 Gln Ile Leu Tyr His Lys Cys Glu Phe His Asp Asp Val Ile Ser Glu
 115 120 125
 Cys Glu Ile Arg Lys Arg Ile Gly Leu Asn Asp Asp Tyr Leu Arg Lys
 130 135 140
 Thr Leu Lys Arg Cys Ile Ala His Asn Ile Ile Ser Ser Gln Thr Asn
 145 150 155 160
 Ile Glu Leu Ala Leu Ile Val Phe His Ala Phe Phe Ser Gly Val Ile
 165 170 175
 Lys Asn Trp Leu Met Asp Asn Thr Ser Phe Asn Leu Tyr Lys Gln Ala
 180 185 190
 Pro Ala Leu Val Asp Asn Ile Leu Ala Thr Leu Asn Ile Thr Arg Val
 195 200 205
 Ala Pro Val Val Tyr Asp Thr Ala Leu
 210 215

<210> 6670

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 6670

Thr Met Val Ala Gln Tyr Tyr Thr Asp Pro Glu Ile Gln Gln Leu Ala
 1 5 10 15
 Glu Glu Thr Gly Gly Cys Ile Ser Asp Ser Leu Glu Met Ala Arg Phe
 20 25 30
 Gly Ala Lys His Pro Ala Ser Thr Leu Leu Val Ala Gly Val Arg Phe
 35 40 45
 Met Gly Glu Thr Ala Lys Ile Leu Ser Pro Glu Lys Thr Ile Leu Met

50 55 60
 Pro Thr Leu Asn Ala Asp Cys Ser Leu Asp Leu Gly Cys Pro Ile Asp
 65 70 75 80
 Glu Phe Thr Ala Phe Cys Asp Ala His Pro Asp Arg Thr Val Val Val
 85 90 95
 Tyr Ala Asn Thr Ser Ala Ala Val Lys Ala Arg Ala Asp Trp Val Met
 100 105 110
 Thr Ser Ser Ile Ala Val Glu Leu Ile Glu His Leu Asp Ser Leu Gly
 115 120 125
 Glu Lys Ile Ile Trp Ala Pro Asp Arg His Leu Gly Asn Tyr Val Gln
 130 135 140
 Lys Gln Thr Gly Ala Asp Val Leu Cys Trp Gln Gly Ala Cys Ile Val
 145 150 155 160
 His Asp Glu Phe Lys Thr Gln Ala Leu Thr Arg Met Lys Gly Leu Tyr
 165 170 175
 Pro Asp Ala Ala Ile Leu Val His Pro Glu Ser Pro Gln Ser Ile Val
 180 185 190
 Asp Met Ala Asp Ala Val Gly Ser Thr Ser Gln Leu Ile His Ala Ala
 195 200 205
 Lys Thr Leu Pro Asn Lys Gln Leu Ile Val Ala Thr Asp Arg Gly Ile
 210 215 220
 Phe Tyr Lys Met Gln Gln Ala Val Pro Glu Lys Glu Leu Leu Glu Ala
 225 230 235 240
 Pro Thr Ala Gly Glu Gly Ala Ser Cys Arg Ser Cys Ala His Cys Pro
 245 250 255
 Trp Met Ala Met Asn Gly Leu Lys Ala Ile Ser Glu Ala Leu Glu Asn
 260 265 270
 Gly Gly Ala Ala His Glu Ile His Val Asp Ala Ala Leu Arg Glu Gly
 275 280 285
 Ala Leu Ile Pro Leu Asn Arg Met Leu Asp Phe Ala Ala Thr Leu Arg
 290 295 300
 Thr
 305

<210> 6671

<211> 263

<212> PRT

<213> *Enterobacter cloacae*

<400> 6671

Phe His Leu Thr Val Cys Trp Ile Leu Arg Leu His Tyr Val Leu Asn
 1 5 10 15
 Leu Leu Arg Pro Gly Glu Lys Met Asp Phe Ser Thr Gln Asn Ile
 20 25 30
 Leu Val His Ile Pro Ile Gly Ala Gly Tyr Asp Leu Ser Trp Ile
 35 40 45
 Glu Ala Val Gly Thr Leu Ala Gly Leu Leu Cys Ile Trp Leu Ala Ser
 50 55 60
 Leu Glu Lys Ile Ser Asn Tyr Ala Phe Gly Leu Ile Asn Val Thr Leu
 65 70 75 80
 Phe Ala Ile Ile Phe Phe Gln Ile Gln Leu Tyr Ala Ser Leu Leu Leu
 85 90 95
 Gln Leu Phe Phe Phe Ala Ala Asn Ile Tyr Gly Trp Tyr Ala Trp Ser
 100 105 110
 Arg Gln Asn Ser Gln Gln Glu Ala Glu Leu Gln Ile Arg Trp Leu Pro
 115 120 125
 Leu Pro Lys Ala Ile Ala Trp Phe Ala Ala Cys Val Val Ala Ile Gly
 130 135 140
 Phe Met Thr Val Phe Ile Asp Pro Val Phe Ala Phe Leu Thr Arg Val
 145 150 155 160
 Ala Val Ser Val Met Ser Gly Leu Gly Leu Asn Val Thr Met Pro Glu

Leu	Gln	Pro	Asp	165	Ala	Phe	Pro	Phe	Trp	Asp	Ser	Cys	Met	Met	175	Val	Leu
			180							185					190		
Ser	Ile	Ala	Ala	Met	Ile	Leu	Met	Thr	Arg	Lys	Tyr	Val	Glu	Asn	Trp		
		195					200					205					
Leu	Leu	Trp	Val	Val	Ile	Asn	Val	Ile	Ser	Val	Val	Ile	Phe	Ala	Arg		
		210				215					220						
Gln	Gly	Val	Tyr	Ala	Met	Ser	Leu	Glu	Tyr	Met	Leu	Leu	Thr	Phe	Ile		
		225			230					235					240		
Ala	Leu	Asn	Gly	Ser	Arg	Met	Trp	Ile	Asn	Ser	Ala	Arg	Glu	Arg	Gly		
			245						250					255			
Ser	Arg	Ala	Leu	Ser	Arg												
			260														

<210> 6672

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 6672

Arg	Tyr	Gly	Arg	Ala	Gly	Lys	Lys	Met	Asn	Tyr	Gln	Asn	Asp	Asp	Leu		
1			5					10					15				
Arg	Ile	Lys	Glu	Ile	Asn	Glu	Leu	Leu	Pro	Pro	Val	Ala	Leu	Leu	Glu		
		20					25						30				
Lys	Phe	Pro	Ala	Thr	Glu	Asn	Ala	Ala	Asn	Thr	Val	Ser	His	Ala	Arg		
		35				40						45					
Lys	Ala	Ile	His	Lys	Ile	Leu	Lys	Gly	Ser	Asp	Asp	Arg	Leu	Leu	Val		
		50				55				60							
Val	Ile	Gly	Pro	Cys	Ser	Ile	His	Asp	Pro	Ala	Ala	Ala	Lys	Glu	Tyr		
		65			70				75					80			
Ala	Ser	Arg	Leu	Leu	Ala	Leu	Arg	Glu	Glu	Leu	Lys	Gly	Glu	Leu	Glu		
			85					90					95				
Ile	Val	Met	Arg	Val	Tyr	Phe	Glu	Lys	Pro	Arg	Thr	Thr	Val	Gly	Trp		
		100					105					110					
Lys	Gly	Leu	Ile	Asn	Asp	Pro	His	Met	Asp	Asn	Ser	Phe	Gln	Ile	Asn		
		115				120						125					
Asp	Gly	Leu	Arg	Ile	Ala	Arg	Lys	Leu	Leu	Leu	Glu	Ile	Asn	Asp	Ser		
		130				135					140						
Gly	Leu	Pro	Ala	Ala	Gly	Glu	Phe	Leu	Asp	Met	Ile	Thr	Pro	Gln	Tyr		
		145			150					155				160			
Leu	Ala	Asp	Leu	Met	Ser	Trp	Gly	Ala	Ile	Gly	Ala	Arg	Thr	Thr	Glu		
			165						170					175			
Ser	Gln	Val	His	Arg	Glu	Leu	Ala	Ser	Gly	Leu	Ser	Cys	Pro	Val	Gly		
		180						185					190				
Phe	Lys	Asn	Gly	Thr	Asp	Gly	Thr	Ile	Lys	Val	Ala	Ile	Asp	Ala	Ile		
		195				200						205					
Asn	Ala	Ala	Gly	Ala	Pro	His	Cys	Phe	Leu	Ser	Val	Thr	Lys	Trp	Gly		
		210			215						220						
His	Ser	Ala	Ile	Val	Asn	Thr	Ser	Gly	Asn	Gly	Asp	Cys	His	Ile	Ile		
		225			230					235				240			
Leu	Arg	Gly	Gly	Lys	Glu	Pro	Asn	Tyr	Ser	Ala	Lys	His	Val	Ala	Glu		
			245					250					255				
Val	Lys	Ala	Gly	Leu	Glu	Lys	Ala	Gly	Leu	Ala	Pro	Gln	Val	Met	Ile		
		260					265					270					
Asp	Phe	Ser	His	Ala	Asn	Ser	Ser	Lys	Gln	Phe	Lys	Lys	Gln	Met	Glu		
		275				280						285					
Val	Gly	Ala	Asp	Val	Cys	Gln	Gln	Ile	Ala	Ser	Gly	Glu	Arg	Ala	Val		
		290			295					300							
Ile	Gly	Val	Met	Ile	Glu	Ser	His	Leu	Val	Glu	Gly	Asn	Gln	Asn	Leu		
		305			310					315				320			
Glu	Gly	Ser	Glu	Pro	Leu	Val	Tyr	Gly	Lys	Ser	Val	Thr	Asp	Ala	Cys		

325 330 335
 Ile Gly Trp Asp Asp Thr Asp Ala Ile Leu Arg Gln Leu Ala Asp Ala
 340 345 350
 Val Lys Ala Arg Arg Gly
 355

<210> 6673
 <211> 371
 <212> PRT
 <213> Enterobacter cloacae

<400> 6673
 Thr Val Arg Ser Gln Asn Gly His Gln Arg Asn Phe Leu Cys Leu Gln
 1 5 10 15
 Ser Ile Thr Arg Ser Arg Thr Val Leu Asn Glu Thr Pro Thr Leu Ala
 20 25 30
 Pro Asp Gly Leu Pro Tyr Arg Leu Leu Thr Leu Arg Asn Ser Ala Gly
 35 40 45
 Met Val Val Thr Leu Met Asp Trp Gly Ala Thr Leu Leu Ser Ala Arg
 50 55 60
 Val Pro Met Pro Asp Gly Ser Val Arg Glu Thr Leu Leu Gly Cys Ala
 65 70 75 80
 Ser Pro Glu Gln Tyr Ile Glu Gln Thr Ala Phe Leu Gly Ala Ser Ile
 85 90 95
 Gly Arg Tyr Ala Asn Arg Ile Ala Arg Ser Arg Phe Thr Leu Asp Gly
 100 105 110
 Val Thr Tyr Ser Leu Leu Ala Ser Gln Gly Glu Asn Gln Leu His Gly
 115 120 125
 Gly Pro Glu Gly Phe Asp Lys Arg Arg Trp Lys Ile Val Gln Gln Asn
 130 135 140
 Asp Ala Glu Val Trp Phe Ser Leu Asp Ser Leu Asp Gly Asp Gln Gly
 145 150 155 160
 Phe Pro Gly Asn Leu Thr Ala Thr Ala Arg Phe Thr Leu Thr Glu Asp
 165 170 175
 Asn Arg Ile Ala Ile Glu Tyr Arg Ala Thr Val Asp Lys Pro Cys Pro
 180 185 190
 Val Asn Leu Thr Asn His Ala Tyr Phe Asn Leu Asp Gly Asn Gln Thr
 195 200 205
 Asp Val Arg Ser His Lys Leu Gln Ile Leu Ser Asp Glu Tyr Leu Pro
 210 215 220
 Val Asp Glu Met Gly Ile Pro Tyr Gln Gly Leu Lys Pro Val Ser Gly
 225 230 235 240
 Asn Ser Phe Asp Phe Arg Gln Pro Lys Thr Ile Ala Gln Asp Phe Leu
 245 250 255
 Ser Asp Asp Asp Gln Arg Lys Val Lys Gly Tyr Asp His Ala Phe Leu
 260 265 270
 Leu Gln Ala Lys Gly Asp Leu Ser Gln Pro Ala Ala Gln Val Trp Ser
 275 280 285
 Ala Asp Glu Lys Leu Gln Met Thr Val Tyr Thr Thr Ala Pro Ala Leu
 290 295 300
 Gln Phe Tyr Ser Gly Asn Tyr Leu Glu Gly Thr Thr Ala Arg Glu His
 305 310 315 320
 Asp Ala Tyr Gly Ala Trp Gln Gly Leu Ala Leu Glu Ser Glu Phe Leu
 325 330 335
 Pro Asp Ser Pro Asn His Pro Glu Trp Pro Gln Pro Asp Cys Val Leu
 340 345 350
 Arg Pro Gly Glu Glu Tyr Val Ser Val Thr Glu Tyr His Phe Ile Pro
 355 360 365
 Arg Ala
 370

<210> 6674

<211> 149

<212> PRT

<213> *Enterobacter cloacae*

<400> 6674

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Phe Arg Ser Pro Glu Ser Phe Ala Thr Glu Gln Asp Ala Leu Leu Glu
1      5      10
Asn Val Ile Gln Arg Asn Asp Lys Asn Arg Ser Thr Met Met Lys Met
20      25      30
Thr Lys Leu Thr Thr Leu Phe Leu Thr Ala Thr Leu Thr Leu Ala Ser
35      40      45
Gly Ser Val Leu Ala Ala Asp Ala Gly Ser Ser Gly Ser Asn Gly Asp
50      55      60
Ala Asn Ala Ala Ala Glu Ala Gly Gln Val Ala Pro Asp Ala Lys Gln
65      70      75      80
Asn Ile Ala Pro Asn Asn Val Asp Asn Ser Asn Ile Asn Thr Gly Asn
85      90      95
Thr Asn Thr Gly Gly Thr Asn Thr Gly Thr Met Asn His Glu Gly Met
100     105
Thr Thr Asp Glu Val His Lys Asn Ser Val Cys Lys Asp Gly Lys Cys
115     120     125
Pro Asp Pro Asn Asp Lys Val Gly Ser Asp Ala Asn Thr Lys Thr Asp
130     135     140
Gly Thr Thr Gln
145

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<210> 6675

<211> 318

<212> PRT

<213> *Enterobacter cloacae*

<400> 6675

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Ile Arg Asn Asp Thr Met Ala His Ser His Ser His Ser His Ser Thr
1      5      10      15
Gly Asp Glu Asn Ala Lys Arg Leu Leu Ala Phe Gly Val Thr Ala
20      25      30
Thr Phe Met Ile Ile Glu Val Thr Gly Gly Leu Ile Ser Gly Ser Leu
35      40      45
Ala Leu Leu Ala Asp Ala Gly His Met Leu Thr Asp Ala Ala Leu
50      55      60
Leu Phe Ala Leu Leu Ala Val Gln Phe Ala Arg Arg Pro Pro Asn Ala
65      70      75      80
Arg His Thr Phe Gly Trp Leu Arg Leu Thr Thr Leu Ala Ala Phe Val
85      90      95
Asn Ala Ile Ala Leu Val Val Ile Thr Ile Leu Ile Val Trp Glu Ala
100     105     110
Phe Gln Arg Phe Arg His Pro Gln Pro Ile Ala Gly Thr Thr Met Met
115     120     125
Val Ile Ala Ile Ala Gly Leu Val Ala Asn Ile Leu Ala Phe Trp Ile
130     135     140
Leu His Arg Gly Ser Ser Glu Lys Asn Leu Asn Val Arg Ala Ala Ala
145     150     155     160
Leu His Val Leu Gly Asp Leu Leu Gly Ser Val Gly Ala Ile Val Ala
165     170     175
Ala Leu Ile Ile Met Gly Thr Gly Trp Thr Pro Ile Asp Pro Ile Leu
180     185     190
Ser Val Leu Val Ser Cys Leu Val Leu Arg Ser Ala Trp Arg Leu Leu
195     200     205
Lys Glu Ser Val Asn Glu Leu Leu Glu Gly Ala Pro Thr Ser Leu Asp
210     215     220

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Ile Gly Glu Leu Lys Arg Asn Leu Ser Arg Ser Ile Pro Glu Val Arg
225          230          235          240
Asn Val His His Val His Val Trp Leu Val Gly Glu Lys Pro Leu Met
          245          250          255
Thr Leu His Val Gln Val Ile Pro Pro His Asp His Asp Ala Leu Leu
          260          265          270
Glu Arg Ile Arg His Phe Leu Glu His His Tyr Glu Ile Ala His Ser
          275          280          285
Thr Ile Gln Met Glu Tyr Gln Pro Cys Ser Gly Pro Asp Cys His Leu
          290          295          300
Asn Glu Ala Gln Ser Gly His Ser His Ala His His His
305          310          315

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<210> 6676

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 6676

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Arg Arg Pro Leu Pro Arg Ile Arg Ser Leu Lys Met Ser Leu Lys Asp
1          5          10          15
Lys Thr Gln Ser Leu Phe Ala Glu Lys Phe Gly Tyr Pro Ala Thr His
          20          25          30
Val Ile Gln Ala Pro Gly Arg Val Asn Leu Ile Gly Glu His Thr Asp
          35          40          45
Tyr Asn Asp Gly Phe Val Leu Pro Cys Ala Ile Asp Tyr Gln Thr Val
          50          55          60
Ile Ser Cys Ala Lys Arg Asp Asp Arg His Val Arg Val Ile Ala Ala
65          70          75          80
Asp Tyr Gly Asn Glu Ile Asp Glu Phe Ser Leu Asp Ala Pro Ile Val
          85          90          95
Thr His Asp Ser Gln Gln Trp Ser Asn Tyr Val Arg Gly Val Val Lys
          100          105          110
His Leu Gln Lys Arg Asn Lys Asn Phe Gly Gly Ala Asp Leu Val Ile
          115          120          125
Ser Gly Asn Val Pro Gln Gly Ala Gly Leu Ser Ser Ser Ala Ser Leu
          130          135          140
Glu Val Ala Val Gly Thr Val Phe Gln Gln Leu Tyr His Leu Pro Leu
145          150          155          160
Asp Gly Ala Gln Ile Ala Leu Asn Gly Gln Glu Ala Glu Asn Gln Phe
          165          170          175
Val Gly Cys Asn Cys Gly Ile Met Asp Gln Leu Ile Ser Ala Leu Gly
          180          185          190
Lys Lys Glu His Ala Leu Leu Ile Asp Cys Arg Ser Leu Gly Thr Lys
          195          200          205
Ala Val Pro Leu Pro Lys Gly Ala Ala Val Val Ile Ile Asn Ser Asn
210          215          220
Phe Lys Arg Thr Leu Val Gly Ser Glu Tyr Asn Thr Arg Arg Glu Gln
225          230          235          240
Cys Glu Thr Gly Ala Arg Phe Phe Gln Gln Pro Ala Leu Arg Asp Val
          245          250          255
Ser Leu Asp Glu Phe Asn Lys Val Ala His Glu Leu Asp Pro Val Val
          260          265          270
Thr Lys Arg Val Arg His Ile Leu Thr Glu Asn Ala Arg Thr Val Glu
          275          280          285
Ala Ala Ser Ala Leu Ala Lys Gly Asp Leu Lys Arg Met Gly Glu Leu
          290          295          300
Met Ala Glu Ser His Ala Ser Met Arg Asp Asp Phe Glu Ile Thr Val
305          310          315          320
Pro Gln Ile Asp Thr Leu Val Glu Ile Val Lys Ala Thr Ile Gly Asp
          325          330          335

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Lys Gly Gly Val Arg Met Thr Gly Gly Gly Phe Gly Gly Cys Val Val
 340 345 350
 Ala Leu Val Pro Glu Glu Leu Val Pro Ala Ile Gln Asp Ala Val Ala
 355 360 365
 Lys Gln Tyr Glu Ala Lys Thr Gly Ile Lys Glu Thr Phe Tyr Val Cys
 370 375 380
 Lys Ala Ser Gln Gly Ala Gly Gln Cys
 385 390

<210> 6677

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 6677

Glu Met Ala Asn Thr Lys Leu Val Leu Val Arg His Gly Glu Ser Gln
 1 5 10 15
 Trp Asn Asn Glu Asn Arg Phe Thr Gly Trp Tyr Asp Val Asp Leu Ser
 20 25 30
 Glu Lys Gly Val Ser Glu Ala Lys Ala Ala Gly Lys Leu Lys Glu
 35 40 45
 Glu Gly Phe Asn Phe Asp Phe Ala Tyr Thr Ser Val Leu Lys Arg Ala
 50 55 60
 Ile His Thr Leu Trp Asn Ile Leu Asp Glu Leu Asp Gln Ala Trp Leu
 65 70 75 80
 Pro Val Glu Lys Ser Trp Lys Leu Asn Glu Arg His Tyr Gly Ala Leu
 85 90 95
 Gln Gly Leu Asn Lys Ala Glu Thr Ala Glu Lys Tyr Gly Asp Glu Gln
 100 105 110
 Val Lys Gln Trp Arg Arg Gly Phe Ala Val Thr Pro Pro Glu Leu Ser
 115 120 125
 Lys Asp Asp Glu Arg Tyr Pro Gly His Asp Pro Arg Tyr Ala Lys Leu
 130 135 140
 Thr Glu Ala Glu Leu Pro Gln Thr Glu Ser Leu Ala Leu Thr Ile Asp
 145 150 155 160
 Arg Val Val Pro Tyr Trp Asn Glu Thr Ile Leu Pro Arg Leu Lys Ser
 165 170 175
 Gly Glu Arg Val Ile Ile Ala Ala His Gly Asn Ser Leu Arg Ala Leu
 180 185 190
 Val Lys Tyr Leu Asp Asn Met Gly Glu Asp Glu Ile Leu Glu Leu Asn
 195 200 205
 Ile Pro Thr Gly Val Pro Leu Val Tyr Glu Phe Asp Glu Asn Phe Lys
 210 215 220
 Pro Val Lys His Tyr Tyr Leu Gly Asn Ala Asp Glu Ile Ala Ala Lys
 225 230 235 240
 Ala Ala Ala Val Ala Asn Gln Gly Lys Ala Lys
 245 250

<210> 6678

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 6678

Arg Ser Glu Gly Ala Ala Leu Arg Phe Ser Asn Asn Leu Gln Gln Tyr
 1 5 10 15
 Ile Ser Ile Ser Leu Ile Tyr Asn Ala Leu Ser Leu Arg Lys Ser Ala
 20 25 30
 Cys Glu Asn Gln Cys Lys Arg Tyr His Tyr Phe Ile Pro Cys His Thr
 35 40 45
 Phe Arg Val Ser Asp Met Leu Trp Leu Ile His Thr Ile Ser Leu Met

50					55					60					
Glu	Arg	Asn	Met	Arg	Val	Leu	Val	Thr	Gly	Gly	Ser	Gly	Tyr	Ile	Gly
65					70				75					80	
Ser	His	Thr	Cys	Val	Gln	Leu	Leu	Gln	Ser	Gly	His	Asp	Val	Val	Ile
				85					90					95	
Leu	Asp	Asn	Leu	Cys	Asn	Ser	Lys	Arg	Ser	Val	Leu	Pro	Val	Ile	Glu
			100						105					110	
Arg	Leu	Ser	Gly	Lys	Gln	Pro	Thr	Phe	Val	Glu	Gly	Asp	Ile	Arg	Asn
			115				120					125			
Glu	Ala	Leu	Met	Thr	Glu	Ile	Leu	His	Asp	His	Ala	Ile	Glu	Thr	Val
			130				135					140			
Ile	His	Phe	Ala	Gly	Leu	Lys	Ala	Val	Gly	Glu	Ser	Val	Ala	Lys	Pro
			145				150				155				160
Leu	Glu	Tyr	Tyr	Asp	Asn	Val	Asn	Gly	Thr	Leu	Arg	Leu	Ile	Ser	
				165					170					175	
Ala	Met	Arg	Ala	Ala	Asn	Val	Lys	Asn	Phe	Ile	Phe	Ser	Ser	Ser	Ala
			180						185					190	
Thr	Val	Tyr	Gly	Asp	Gln	Pro	Lys	Ile	Pro	Tyr	Val	Glu	Ser	Phe	Pro
			195				200						205		
Thr	Gly	Thr	Pro	Gln	Ser	Pro	Tyr	Gly	Lys	Ser	Lys	Leu	Met	Val	Glu
			210				215						220		
Gln	Ile	Leu	Thr	Asp	Leu	Gln	Lys	Ala	Gln	Pro	Glu	Trp	Ser	Ile	Ala
			225				230							240	
Leu	Leu	Arg	Tyr	Phe	Asn	Pro	Val	Gly	Ala	His	Pro	Ser	Gly	Asp	Met
				245					250					255	
Gly	Glu	Asp	Pro	Gln	Gly	Ile	Pro	Asn	Asn	Leu	Met	Pro	Tyr	Ile	Ala
			260						265					270	
Gln	Val	Ala	Val	Gly	Arg	Arg	Asp	Ser	Leu	Ala	Ile	Phe	Gly	Asn	Asp
			275				280						285		
Tyr	Pro	Thr	Glu	Asp	Gly	Thr	Gly	Val	Arg	Asp	Tyr	Ile	His	Val	Met
			290				295								
Asp	Leu	Ala	Asp	Gly	His	Val	Ala	Ala	Met	Gln	Gln	Leu	Ala	Asp	Lys
			305				310				315				320
Pro	Gly	Val	His	Ile	Tyr	Asn	Leu	Gly	Ala	Gly	Val	Gly	Ser	Ser	Val
				325					330					335	
Leu	Asp	Val	Val	Asn	Ala	Phe	Ser	Lys	Ala	Cys	Gly	Lys	Pro	Val	Lys
				340					345					350	
Tyr	His	Phe	Ala	Pro	Arg	Arg	Asp	Gly	Asp	Leu	Pro	Ala	Tyr	Trp	Ala
			355				360						365		
Asp	Ala	Thr	Lys	Ala	Asp	Lys	Glu	Leu	Asn	Trp	Arg	Val	Thr	Arg	Thr
			370				375						380		
Leu	Asp	Glu	Met	Ala	Gln	Asp	Thr	Trp	His	Trp	Gln	Ser	Arg	His	Pro
			385				390				395				400
Gln	Gly	Tyr	Pro	Asp											
				405											

<210> 6679

<211> 352

<212> PRT

<213> Enterobacter cloacae

<400> 6679

Gly	Phe	Val	Met	Thr	Gln	Phe	Asn	Pro	Val	Asp	His	Pro	His	Arg	Arg
1				5					10					15	
Phe	Asn	Pro	Leu	Ser	Gly	Gln	Trp	Ile	Leu	Val	Ser	Pro	His	Arg	Ala
			20					25					30		
Lys	Arg	Pro	Trp	Gln	Gly	Ala	Gln	Glu	Thr	Pro	Ala	Lys	Gln	Thr	Leu
			35				40					45			
Pro	Gln	His	Asp	Pro	Asp	Cys	Phe	Leu	Cys	Pro	Gly	Asn	Thr	Arg	Val
			50				55				60				
Thr	Gly	Asp	Lys	Asn	Pro	Asp	Tyr	Lys	Gly	Thr	Phe	Val	Phe	Thr	Asn

65 70 75 80
 Asp Phe Ala Ala Leu Met Thr Asp Thr Pro Asp Ala Pro Glu Ser His
 85 90 95
 Asp Pro Leu Met Arg Cys Glu Ser Ala Arg Gly Thr Ser Arg Val Ile
 100 105 110
 Cys Phe Ser Pro Asp His Ser Lys Thr Leu Pro Glu Leu Ser Val Asp
 115 120 125
 Ala Leu Lys Glu Val Val Ser Thr Trp Gln Val Gln Thr Ala Glu Leu
 130 135 140
 Gly Gln Ser Tyr Pro Trp Val Gln Val Phe Glu Asn Lys Gly Ala Ala
 145 150 155 160
 Met Gly Cys Ser Asn Pro His Pro His Gly Gln Ile Trp Ala Asn Ser
 165 170 175
 Phe Leu Pro Asn Glu Ala Glu Arg Glu Asp Arg Leu Gln Lys Ala Tyr
 180 185 190
 Phe Ala Gln Asn Gly Ser Pro Met Leu Val Asp Tyr Thr Gln Arg Glu
 195 200 205
 Leu Ala Asp Gly Ser Arg Thr Val Val Glu Thr Glu His Trp Leu Ala
 210 215 220
 Val Val Pro Tyr Trp Ala Ala Trp Pro Phe Glu Thr Leu Leu Pro
 225 230 235 240
 Lys Ala His Val Gln Arg Ile Thr Glu Leu Ser Asp Ala Gln Arg Asp
 245 250 255
 Asp Leu Ala Leu Ala Leu Lys Lys Leu Thr Ser Arg Tyr Asp Asn Leu
 260 265 270
 Phe Gln Cys Ser Phe Pro Tyr Ser Met Gly Trp His Gly Ala Pro Phe
 275 280 285
 Asn Gly Glu Glu Asn Gln His Trp Gln Leu His Ala His Phe Tyr Pro
 290 295 300
 Pro Leu Leu Arg Ser Ala Thr Val Arg Lys Phe Met Val Gly Tyr Glu
 305 310 315 320
 Met Leu Ala Glu Thr Gln Arg Asp Leu Thr Ala Glu Gln Ala Ala Glu
 325 330 335
 Arg Leu Arg Ala Val Ser Asp Val His Tyr Arg Glu Ser Gly Val
 340 345 350

<210> 6680

<211> 232

<212> FRT

<213> *Enterobacter cloacae*

<400> 6680

Gln Ser Arg Tyr Ser Pro Pro Lys Arg Glu Thr Lys Asp Asp Lys Glu
 1 5 10 15
 Ser Pro Asp Asn Met Thr Leu Lys His Ser Asn Leu Leu His Leu Asp
 20 25 30
 Leu His Thr Asn His Val Thr Met Thr Asn Ile Arg Thr Val Leu Gly
 35 40 45
 Ser Met Glu Leu Asp Glu Met Leu Ser Gln Arg Asp Ser Ile Asn Thr
 50 55 60
 Arg Leu Leu His Ile Val Asp Glu Ala Thr Asn Pro Trp Gly Ile Lys
 65 70 75 80
 Val Thr Arg Ile Glu Ile Arg Asp Val Arg Pro Pro Ala Glu Leu Ile
 85 90 95
 Ala Ser Met Asn Ala Gln Met Lys Ala Glu Arg Thr Lys Arg Ala Tyr
 100 105 110
 Ile Leu Glu Ala Glu Gly Val Arg Gln Ala Glu Ile Leu Lys Ala Glu
 115 120 125
 Gly Glu Lys Gln Ser Gln Ile Leu Lys Ala Glu Gly Asp Arg Gln Ser
 130 135 140
 Ala Phe Leu Gln Ala Glu Ala Arg Glu Arg Ser Ala Glu Ala Glu Ala

145 150 155 160
 Arg Ala Thr Gln Met Val Ser Glu Ala Ile Ala Ala Gly Asp Ile Gln
 165 170 175
 Ala Val Asn Tyr Phe Val Ala Gln Lys Tyr Thr Asp Ala Leu Lys Glu
 180 185 190
 Ile Gly Ser Ala Asn Asn Ser Lys Val Val Met Met Pro Leu Asp Ala
 195 200 205
 Ser Ser Leu Met Gly Ser Ile Ala Gly Ile Ala Glu Leu Ile Lys Asp
 210 215 220
 Gly Gly Asn Glu Arg Lys Lys
 225 230

<210> 6681

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 6681

Thr Glu Arg Leu Asn Leu Val Pro Val Arg Ala Ser Met Asn Leu Ser
 1 5 10 15
 Val Tyr Gly Ala Arg Met Gly Leu Phe Asn Arg Ile Lys Thr Ser Phe
 20 25 30
 Arg Ala Leu Phe Pro Arg Arg Tyr Ala Trp Pro Gly Met Asp Ile Ser
 35 40 45
 Leu Pro Gly Gly Gln His Leu His Leu Val Gly Ser Ile His Met Gly
 50 55 60
 Thr Gln Asp Met Ser Pro Leu Pro Ser Gly Leu Ile Lys Leu Leu Lys
 65 70 75 80
 Arg Ala Asp Ala Leu Ile Val Glu Ala Asp Ile Ser Gly His Glu Ser
 85 90 95
 Pro Phe Ala Gly Leu Glu Ser Asp Arg Pro Leu Ala Glu Arg Leu Asn
 100 105 110
 Glu Thr Gln Leu Ala Glu Leu Thr Arg Leu Ala Asp Glu Thr Gly Val
 115 120 125
 Ser Leu Ser Met Leu Asp Thr Leu Pro Leu Trp Gln Ile Ala Met Val
 130 135 140
 Leu Gln Ala Thr Gln Ala Gln Arg Leu Gly Leu Arg Gly Asp Tyr Gly
 145 150 155 160
 Ile Asp Tyr Gln Leu Leu Asn Ala Ala Arg Ala Arg Asn Leu Ser Ile
 165 170 175
 Ile Glu Leu Glu Gly Thr Gly Ser Gln Ile Ala Leu Leu Arg Gln Leu
 180 185 190
 Pro Asp Asp Gly Leu Ile Leu Leu Asp Asp Thr Leu Thr His Trp His
 195 200 205
 Thr Asn Ala Arg Leu Leu Gln Thr Met Ile Gly Trp Trp Leu Asp Ala
 210 215 220
 Pro Pro Ala Asp Gly Lys Leu Ala Leu Pro Ser Thr Phe Ser Glu Ser
 225 230 235 240
 Leu Tyr Asp Val Leu Met Asn Ala Arg Asn Gln Ala Trp Arg Glu Thr
 245 250 255
 Leu Tyr Ala Leu Pro Ala Gly Arg Tyr Val Val Ala Val Gly Ala Leu
 260 265 270
 His Leu Tyr Gly Glu Gly Asn Leu Pro Ser Leu Leu Lys
 275 280 285

<210> 6682

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 6682

```

Pro Ser Leu Pro Ile Leu Leu Arg Lys Met Val Leu Phe Phe Arg Gln
1      5      10      15
Thr Ser Gly Val Cys Cys Trp His Glu Ser Ser Val Val Arg Arg Ile
      20      25      30
Ala Met Thr Pro Ala Val Lys Leu Leu Glu Lys Asn Lys Ile Ser Phe
      35      40      45
Arg Ile His Thr Tyr Asp His Asp Pro Asn Glu Thr Asn Phe Gly Asp
      50      55      60
Glu Val Val Arg Lys Leu Gly Leu Asn Ala Asp Gln Val Tyr Lys Thr
65      70      75      80
Leu Leu Val Ala Val Asn Gly Asp Met Lys His Leu Ala Val Ala Val
      85      90      95
Thr Pro Val Ala Gly Gln Leu Asp Leu Lys Lys Val Ala Lys Ala Leu
      100      105      110
Gly Ala Lys Lys Val Asp Met Ala Asp Pro Met Val Ala Gln Arg Thr
      115      120      125
Thr Gly Tyr Leu Val Gly Gly Ile Ser Pro Leu Gly Gln Lys Lys Arg
      130      135      140
Leu Pro Thr Leu Ile Asp Ala Pro Ser Gln Glu Phe Glu Thr Ile Tyr
145      150      155      160
Ile Ser Gly Gly Lys Arg Gly Leu Asp Ile Glu Leu Ser Ala Gly Asp
      165      170      175
Leu Ala Lys Met Leu Asp Ala Lys Phe Ala Asp Ile Ala Arg Arg Asp
      180      185      190

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<210> 6683

<211> 880

<212> PRT

<213> Enterobacter cloacae

<400> 6683

```

Ala Gly Phe Phe Arg Asn Ile Ala Asp Ile His Ile Ser Pro Leu Thr
1      5      10      15
Phe Pro Leu Met Glu Gly Leu Thr Phe Ile Thr Val Ser Glu Lys Gln
      20      25      30
Ser Glu Gly Gln Gln Leu Thr Arg Thr Leu Tyr Gly Ser Phe Val Met
      35      40      45
Ser His Thr Ile Asp Leu Thr Leu Asp Gly Leu Ser Cys Gly His Cys
      50      55      60
Val Lys Arg Val Lys Glu Ser Leu Glu Gln Arg Pro Asp Val Glu Ser
65      70      75      80
Ala Glu Val Thr Ile Asp His Ala Ala Val Thr Gly Ser Ala Ser Ala
      85      90      95
Asp Ala Leu Ile Asp Thr Ile Lys Gln Ala Gly Tyr Gly Ala Glu Leu
      100      105      110
Ser His Pro Lys Ala Lys Pro Leu Ala Glu Ser Ser Ser Pro Ser Glu
      115      120      125
Ala Leu Thr Ala Ala Thr Pro Glu Leu Pro Val Ala Asp Asp Ile Asp
      130      135      140
Asp Ser Gln Gln Leu Leu Ile Asn Gly Met Ser Cys Ala Ser Cys Val
145      150      155      160
Ser Arg Val Gln Asn Ala Leu Gln Ala Val Pro Gly Val Ala Gln Ala
      165      170      175
Arg Val Asn Leu Ala Glu Arg Thr Ala Leu Val Met Gly Ser Ala Ser
      180      185      190
Ala Ala Glu Leu Val Gln Ala Val Glu Lys Ala Gly Tyr Gly Ala Glu
      195      200      205
Ala Ile Glu Asp Asp Ala Glu Arg Arg Glu Arg Gln Glu Thr Ala
      210      215      220

```

Val Ala Thr Met Lys Arg Phe Arg Trp Gln Ala Ile Val Ala Leu Leu
 225 230 235 240
 Val Gly Ile Pro Val Met Val Trp Gly Met Met Gly Asp Asn Met Met
 245 250 255
 Val Thr Ala Asp Asn Arg Thr Leu Trp Leu Val Ile Gly Leu Ile Thr
 260 265 270
 Leu Ala Val Met Val Phe Ala Gly Gly His Phe Tyr Thr Ser Ala Trp
 275 280 285
 Lys Ser Leu Lys Asn Arg Thr Ala Thr Met Asp Thr Leu Val Ala Leu
 290 295 300
 Gly Thr Gly Ala Ala Trp Leu Tyr Ser Met Ser Val Asn Val Trp Pro
 305 310 315 320
 Gln Trp Phe Pro Met Glu Ala Arg His Leu Tyr Tyr Glu Ala Ser Ala
 325 330 335
 Met Ile Ile Gly Leu Ile Asn Leu Gly His Met Leu Glu Ala Arg Ala
 340 345 350
 Arg Gln Arg Ser Ser Lys Ala Leu Glu Arg Leu Leu Asp Leu Thr Pro
 355 360 365
 Pro Thr Ala Arg Val Val Thr Asp Glu Gly Glu Lys Ser Val Pro Leu
 370 375 380
 Ala Glu Val Gln Pro Gly Met Thr Leu Arg Leu Thr Thr Gly Asp Arg
 385 390 395 400
 Val Pro Val Asp Gly Lys Ile Ser Gln Gly Glu Ala Trp Leu Asp Glu
 405 410 415
 Ala Met Leu Thr Gly Glu Pro Ile Pro Gln Gln Lys Ser Asp Gly Asp
 420 425 430
 Ala Val His Ala Gly Thr Val Val Gln Asp Gly Ser Val Leu Phe Arg
 435 440 445
 Ala Ser Ala Val Gly Ser His Thr Thr Leu Ser Arg Ile Ile Arg Met
 450 455 460
 Val Arg Gln Ala Gln Ser Ser Lys Pro Glu Ile Gly Gln Leu Ala Asp
 465 470 475 480
 Lys Ile Ser Ala Ile Phe Val Pro Val Val Val Gly Ile Ala Leu Leu
 485 490 495
 Ser Ala Ala Ile Trp Tyr Phe Phe Gly Pro Ala Pro Gln Ile Val Tyr
 500 505 510
 Thr Leu Val Ile Ala Thr Thr Val Leu Ile Ile Ala Cys Pro Cys Ala
 515 520 525
 Leu Gly Leu Ala Thr Pro Met Ser Ile Ile Ser Gly Val Gly Arg Ala
 530 535 540
 Ala Glu Phe Gly Val Leu Val Arg Asp Ala Asp Ala Leu Gln Arg Ala
 545 550 555 560
 Ser Thr Leu Asp Thr Leu Val Phe Asp Lys Thr Gly Thr Leu Thr Glu
 565 570 575
 Gly Lys Pro Gln Val Val Ala Val Ser Thr Val Gly Cys Thr Glu Thr
 580 585 590
 Asp Ala Leu Arg Leu Ala Ala Ala Leu Glu Gln Gly Ser Ser His Pro
 595 600 605
 Leu Ala Arg Ala Ile Leu Glu Lys Ala Gly Asp Ala Arg Leu Pro Gln
 610 615 620
 Val Ser Asn Phe Arg Thr Leu Arg Gly Leu Gly Val Ser Gly Glu Ala
 625 630 635 640
 Glu Gly His Thr Leu Leu Leu Gly Asn Gln Ala Leu Leu Thr Glu His
 645 650 655
 Gly Val Asp Thr Ser Ala Leu Asp Ala Glu Leu Asn Ala Gln Ala Ser
 660 665 670
 Gln Gly Ala Thr Pro Val Leu Leu Ala Arg Asp Gly Gln Val Ala Ala
 675 680 685
 Leu Leu Ala Val Arg Asp Pro Leu Arg Gln Asp Ser Val Asp Ala Leu
 690 695 700
 Gln Arg Leu His Arg Ala Gly Tyr Arg Leu Val Met Leu Thr Gly Asp

```

705          710          715          720
Asn Pro Thr Thr Ala Asn Ala Ile Ala Lys Glu Ala Gly Ile Asp Glu
725          730          735
Val Ile Ala Gly Val Leu Pro Asp Gly Lys Ala Asp Ala Ile Lys Asn
740          745          750
Leu Gln Ser Gln Gly Arg Gln Val Ala Met Val Gly Asp Gly Ile Asn
755          760          765
Asp Ala Pro Ala Leu Ala Gln Ala Asp Val Gly Ile Ala Met Gly Gly
770          775          780
Gly Ser Asp Val Ala Ile Glu Thr Ala Ala Ile Thr Leu Met Arg His
785          790          795          800
Ser Leu Met Gly Val Ala Asp Ala Leu Ala Ile Ser Lys Ala Thr Leu
805          810          815
Arg Asn Met Lys Gln Asn Leu Leu Gly Ala Phe Val Tyr Asn Ser Leu
820          825          830
Gly Ile Pro Ile Ala Ala Gly Ile Leu Trp Pro Leu Thr Gly Thr Leu
835          840          845
Leu Asn Pro Val Val Ala Gly Ala Ala Met Ala Leu Ser Ser Ile Thr
850          855          860
Val Val Ser Asn Ala Asn Arg Leu Leu Arg Phe Lys Pro Lys Asp
865          870          875          880

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<210> 6684

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 6684

```

Lys Met Ile Glu Leu Ile Val Ala His Pro His Ala Phe Trp Leu Ser
1          5          10          15
Leu Gly Gly Leu Leu Ala Ala Glu Met Leu Gly Gly Asn Gly Tyr
20          25          30
Leu Leu Trp Ser Gly Val Ala Ala Val Ile Thr Gly Leu Val Val Trp
35          40          45
Leu Leu Pro Val Gly Trp Glu Trp Gln Gly Ala Leu Phe Ala Val Leu
50          55          60
Thr Leu Leu Ala Ala Trp Leu Trp Trp Arg Trp Leu Asn Lys Arg Val
65          70          75          80
Lys Ala Gln Lys Pro Val Asp Ala His Leu Asn Gln Arg Gly Gln Gln
85          90          95
Ile Val Gly Lys Arg Phe Thr Leu Asp Asn Thr Leu Ile Asn Gly Arg
100          105          110
Gly His Met Arg Val Gly Asp Ser Ser Trp Pro Val Val Ala Asp Asp
115          120          125
Asp Leu Ser Ala Gly Thr Arg Val Glu Val Ile Ala Val Glu Gly Ile
130          135          140
Thr Leu Arg Val Lys Ala Cys
145          150

```

<210> 6685

<211> 342

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (331)

<400> 6685

```

Gln Ile Asp Val Val Phe Met Ala Ile Ser Glu Ser Thr Gln Pro Val
1          5          10          15

```

Gln Gly Ala Pro Ala Ser Pro Pro Lys Ser Arg Thr Ser Phe Lys Val
 20 25 30
 Leu Gly Ala Ile Ser Leu Ser His Leu Leu Asn Asp Met Ile Gln Ser
 35 40 45
 Leu Ile Leu Ala Ile Tyr Pro Leu Leu Gln Ser Glu Phe Ser Leu Thr
 50 55 60
 Phe Val Gln Ile Gly Met Ile Thr Leu Thr Phe Gln Leu Ala Ser Ser
 65 70 75 80
 Leu Leu Gln Pro Val Val Gly Tyr Trp Thr Asp Lys Tyr Pro Met Pro
 85 90 95
 Trp Ser Leu Pro Ile Gly Met Cys Phe Thr Leu Ser Gly Leu Val Leu
 100 105 110
 Leu Ala Met Ala Gly Ser Phe Glu Ala Val Leu Val Ala Ala Leu
 115 120 125
 Val Gly Thr Gly Ser Ser Val Phe His Pro Glu Ser Ser Arg Val Ala
 130 135 140
 Arg Met Ala Ser Gly Gly Arg His Gly Leu Ala Gln Ser Leu Phe Gln
 145 150 155 160
 Val Gly Gly Asn Phe Gly Ser Ser Leu Gly Pro Leu Leu Ala Ala Val
 165 170 175
 Ile Ile Ala Pro Tyr Gly Lys Gly Asn Val Ala Trp Phe Val Leu Ala
 180 185 190
 Ala Leu Leu Ala Ile Val Val Leu Ala Gln Ile Ser Arg Trp Tyr Ala
 195 200 205
 Ala Gln His Arg Val Asn Lys Gly Lys Pro Ala Val Lys Ile Thr Asn
 210 215 220
 Pro Leu Pro Arg Asn Lys Val Ile Leu Ala Val Ser Val Leu Leu Val
 225 230 235 240
 Leu Ile Phe Ser Lys Tyr Phe Tyr Met Ala Ser Ile Ser Ser Tyr Tyr
 245 250 255
 Thr Phe Tyr Leu Met Gln Lys Phe Gly Leu Ser Val Gln Asn Ala Gln
 260 265 270
 Phe His Leu Phe Ala Phe Leu Phe Ala Val Ala Ala Gly Thr Val Ile
 275 280 285
 Gly Gly Pro Val Gly Asp Lys Ile Gly Arg Lys Tyr Val Ile Trp Gly
 290 295 300
 Ser Ile Leu Gly Val Ala Pro Phe Thr Leu Val Leu Pro Tyr Ala Thr
 305 310 315 320
 Leu Glu Trp Thr Gly Ile Leu Ser Ser Thr Xaa Ala Asp Gly Thr Tyr
 325 330 335
 Thr Ser Pro Pro Pro Pro
 340

<210> 6686

<211> 566

<212> PRT

<213> Enterobacter cloacae

<400> 6686

Val Thr Val Ile Phe Ala Phe Val Tyr Gly Ser Gly Arg Glu Lys Met
 1 5 10 15
 Lys Leu Met Lys Arg Gly Val Ala Leu Ala Leu Ile Ala Ala Trp Gly
 20 25 30
 Leu Thr Ser Leu Pro Ala Gln Ala Tyr Glu Lys Asp Lys Thr Tyr Lys
 35 40 45
 Ile Thr Ile Leu His Thr Asn Asp His His Gly His Phe Thr Arg Ser
 50 55 60
 Glu Tyr Gly Glu Tyr Gly Leu Ala Ala Gln Lys Thr Leu Val Asp Gly
 65 70 75 80
 Ile Arg Lys Glu Val Ala Ala Gln Gly Gly Ser Val Leu Leu Leu Ser
 85 90 95

Gly Gly Asp Ile Asn Thr Gly Val Pro Glu Ser Asp Leu Gln Asp Ala
 100 105 110
 Glu Pro Asp Phe Arg Gly Met Asn Leu Ile Gly Tyr Asp Ala Met Ala
 115 120 125
 Val Gly Asn His Glu Phe Asp Asn Pro Leu Ser Val Leu Arg Gln Gln
 130 135 140
 Glu Lys Trp Ser Lys Phe Pro Phe Leu Ser Ala Asn Ile Tyr Gln Lys
 145 150 155 160
 Ser Thr Gly Glu Arg Leu Phe Lys Pro Trp Ala Leu Phe Lys Arg Gln
 165 170 175
 Asp Leu Lys Ile Ala Val Ile Gly Leu Thr Thr Asp Asp Thr Ala Lys
 180 185 190
 Ile Gly Asn Pro Glu Phe Phe Thr Asp Ile Glu Phe Arg Lys Pro Ala
 195 200 205
 Asp Glu Ala Lys Leu Val Ile Gln Glu Leu Gln Gln Asn Glu Lys Pro
 210 215 220
 Asp Val Ile Ile Ala Thr Thr His Met Gly His Tyr Asp Asn Gly Gln
 225 230 235 240
 His Gly Ser Asn Ala Pro Gly Asp Val Glu Met Ala Arg Ser Leu Pro
 245 250 255
 Ala Gly Ser Leu Ala Met Ile Val Gly Gly His Ser Gln Asp Pro Val
 260 265 270
 Cys Met Ala Ser Glu Asn Lys Lys Gln Val Asp Tyr Val Pro Gly Thr
 275 280 285
 Pro Cys Ala Pro Asp Arg Gln Asn Gly Ile Trp Ile Val Gln Ala His
 290 295 300
 Glu Trp Gly Lys Tyr Val Gly Arg Ala Asp Phe Glu Phe Arg Asn Gly
 305 310 315 320
 Glu Met Lys Leu Val His Tyr Gln Leu Ile Pro Val Asn Leu Lys Lys
 325 330 335
 Lys Val Thr Tyr Pro Asp Gly Lys Ser Glu Arg Val Leu Tyr Thr Pro
 340 345 350
 Glu Ile Ala Glu Asn Gln Gln Met Leu Ser Leu Leu Thr Pro Phe Gln
 355 360 365
 Ser Lys Gly Lys Ala Gln Leu Asp Val Lys Ile Gly Thr Leu Asn Gly
 370 375 380
 Arg Leu Glu Gly Asp Arg Ser Lys Val Arg Phe Val Gln Thr Asn Met
 385 390 395 400
 Gly Arg Leu Val Leu Ala Ala Gln Met Ala Arg Thr Asn Ala Asp Phe
 405 410 415
 Ala Val Met Ser Gly Gly Gly Ile Arg Asp Ser Ile Glu Gly Gly Asp
 420 425 430
 Ile Thr Tyr Lys Asp Val Leu Lys Val Gln Pro Phe Gly Asn Val Val
 435 440 445
 Val Tyr Ala Asp Met Ser Gly Lys Glu Val Ile Asp Tyr Leu Thr Ala
 450 455 460
 Val Ala Gln Met Lys Pro Asp Ser Gly Ala Tyr Pro Gln Phe Ala Asn
 465 470 475 480
 Val Ser Phe Val Ala Lys Asp Gly Lys Leu Asn Asp Leu Lys Ile Lys
 485 490 495
 Gly Glu Pro Val Asp Thr Ala Lys Thr Tyr Arg Leu Ala Thr Leu Ser
 500 505 510
 Phe Asn Ala Thr Gly Gly Asp Gly Tyr Pro His Ile Asp Asn Lys Pro
 515 520 525
 Gly Tyr Val Asn Thr Gly Phe Ile Asp Ala Glu Val Leu Lys Gln Phe
 530 535 540
 Ile Gln Gln Asn Ser Pro Ile Asp Val Asn Ala Tyr Glu Pro Lys Gly
 545 550 555 560
 Glu Val Ser Trp Gln
 565

<210> 6687

<211> 148

<212> PRT

<213> *Enterobacter cloacae*

<400> 6687

```

Thr Phe His Gln Gly Glu Gly Gln Gly Gly Asn Val Asn Ile Ser Asp
1      5      10
Val Ala Lys Lys Thr Gly Leu Thr Ser Lys Ala Ile Arg Phe Tyr Glu
20      25      30
Glu Lys Gly Leu Val Thr Pro Pro Leu Arg Ser Glu Asn Gly Tyr Arg
35      40      45
Ser Tyr Thr Gln Leu His Leu Asp Glu Leu Thr Leu Arg Gln Ala
50      55      60
Arg Gln Val Gly Phe Asn Leu Glu Glu Cys Gly Glu Leu Val Asn Leu
65      70      75      80
Phe Asn Asp Pro Lys Arg His Ser Ala Asp Val Lys Lys Arg Thr Leu
85      90      95
Glu Lys Val Ala Glu Ile Glu Arg His Ile Ile Glu Leu Gln Ala Met
100     105     110
Arg Glu Gln Leu Leu Gln Leu Ala Glu Ser Cys Pro Gly Asp Asp Ser
115     120     125
Ala Glu Cys Pro Ile Ile Asp Asn Leu Ser Gly Cys Cys His Arg Lys
130     135     140
Thr His Ala
145

```

<210> 6688

<211> 69

<212> PRT

<213> *Enterobacter cloacae*

<400> 6688

```

Arg Ile Gly Phe Gln Arg Trp Glu Pro Phe Leu Tyr Arg Lys Phe Ile
1      5      10      15
Met Arg Thr Ala Tyr Ala Tyr Ile Arg Phe Ser Ser Glu Lys Gln Ser
20      25      30
Ala Gly Asp Ser Val Arg Arg Gln Gln Ser Leu Ile Asp Ser Trp Val
35      40      45
Lys Asn Asn Pro Asp Tyr Ile Leu Ser Phe Phe Thr Thr Ala Ala Lys
50      55      60
Val Thr Leu Leu Val
65

```

<210> 6689

<211> 245

<212> PRT

<213> *Enterobacter cloacae*

<400> 6689

```

Cys Thr His His Leu Asn Thr Phe Asp Gly Gly Val Ser Arg Leu His
1      5      10      15
Gly Phe Lys Ser Gln Arg Gly Ala Asp Tyr Pro Phe Gln Phe Ala Met
20      25      30
Ile Ala Phe Asn His Val Val Pro Val Leu Asn Leu Ser Val Phe Asn
35      40      45
Val Arg Arg Ala Pro Ala Phe Ala Phe Glu Gln Ser Lys Arg Ala Thr
50      55      60
Ile Gly Gly Arg Phe Ile Arg Val Asp Glu Ser Arg Asp Leu Pro Leu
65      70      75      80
Leu His Val Val Glu Asp Phe Thr Gln Lys Pro Val Cys Ser Phe Ala

```

Val	Thr	Thr	Gly	100	85	Gly	Glu	Ile	Lys	Ile	Asp	Ser	Ala	Ala	Pro	Ala	Val	105	90	95	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245
Asp	Gly	Pro	Val	100	105	Gln	Ile	Arg	Pro	Ala	Ala	Ile	Asp	Leu	His	Val	Gly	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245		
Phe	Ile	His	Val	100	105	Pro	Arg	Ala	Lys	Ile	Gly	Arg	Val	Thr	Pro	Val	Pro	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245		
Ala	Gln	Pro	Phe	100	105	Phe	His	Phe	Arg	Arg	Ile	Thr	Leu	Asn	Pro	Ala	Val	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245		
Asn	Arg	Gly	Val	100	105	Ile	Asp	Ile	His	Ser	Ala	Phe	Ser	Gln	His	Leu	Leu	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245		
Gln	Leu	Thr	Val	100	105	Thr	Asp	Ala	Val	Phe	Ala	Val	Pro	Ala	Tyr	Gly	Pro	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245		
Gln	Asn	Asp	Val	100	105	Thr	Leu	Lys	Met	Pro	Ala	Phe	Glu	Trp	Val	His	Val	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245		
Gln	Leu	His	Gln	100	105	Gln	Lys	Gly	Met	Ile	Ser	Leu	Ser	Pro	Pro	Thr	Ile	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245		
Cys	Asn	Ser	Ala	100	105	Pro	Ser	Asp	Val	Thr	Leu	His	Lys	Ile	Lys	Ile	Tyr	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245		
His	His	Glu	Gln	100	105	Gln	245											105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245		

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<210> 6690
<211> 76
<212> PRT
<213> Enterobacter cloacae
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<400> 6690
Asn Ala His Ile Gly Thr Tyr Gln Cys Arg Phe Leu Gly Thr Ile Met
1      5      10
Gly Arg Gly Arg Arg Leu Lys Ser Tyr Leu Asp Tyr Glu Asn Ala Leu
20     25
Gly Asp Gly Ile Gly Val Gly Tyr Gly Gln Ser Tyr Gln Pro Trp Leu
35     40     45
Arg Ala Gln Asp Val Lys Ser Arg Gly Asn Arg Ser Ile Val Phe Gly
50     55     60
Leu Lys Thr Phe Arg Asn His His His Gly Val
65     70     75

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<210> 6691
<211> 287
<212> PRT
<213> Enterobacter cloacae
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400> 6691															
Thr	Ile	Lys	Leu	Ser	Ala	Tyr	Ile	Asn	Ser	Asn	Thr	Arg	Gly	Val	Met
1				5				10					15		
Ser	His	Ile	Gln	Arg	Glu	Thr	Ser	Cys	Ser	Arg	Pro	Arg	Leu	Asn	Ser
			20					25					30		
Asn	Met	Asp	Ala	Asp	Leu	Tyr	Gly	Tyr	Lys	Trp	Ala	Arg	Asp	Asn	Val
		35				40						45			
Gly	Gln	Ser	Gly	Ala	Thr	Ile	Tyr	Arg	Leu	Tyr	Gly	Lys	Pro	Asp	Ala
		50				55					60				
Pro	Glu	Leu	Phe	Leu	Lys	His	Gly	Lys	Gly	Ser	Val	Ala	Asn	Asp	Val
65					70					75				80	
Thr	Asp	Glu	Met	Val	Arg	Leu	Asn	Trp	Leu	Thr	Glu	Phe	Met	Pro	Leu
				85					90					95	
Pro	Thr	Ile	Lys	His	Phe	Ile	Arg	Thr	Pro	Asp	Asp	Ala	Trp	Leu	Leu
			100					105					110		
Thr	Thr	Ala	Ile	Pro	Gly	Lys	Thr	Ala	Phe	Gln	Val	Leu	Glu	Glu	Tyr
			115				120					125			

```

Pro Asp Ser Gly Glu Asn Ile Val Asp Ala Leu Ala Val Phe Leu Arg
130      135      140
Arg Leu His Ser Ile Pro Val Cys Asn Cys Pro Phe Asn Ser Asp Arg
145      150      155      160
Val Phe Arg Leu Ala Gln Ala Gln Ser Arg Met Asn Asn Gly Leu Val
      165      170      175
Asp Ala Ser Asp Phe Asp Asp Glu Arg Asn Gly Trp Pro Val Glu Gln
      180      185      190
Val Trp Lys Glu Met His Lys Leu Leu Pro Phe Ser Pro Asp Ser Val
      195      200      205
Val Thr His Gly Asp Phe Ser Leu Asp Asn Leu Ile Phe Asp Glu Gly
210      213      220
Lys Leu Ile Gly Cys Ile Asp Val Gly Arg Val Gly Ile Ala Asp Arg
225      230      235      240
Tyr Gln Asp Leu Ala Ile Leu Trp Asn Cys Leu Gly Glu Phe Ser Pro
      245      250      255
Ser Leu Gln Lys Arg Leu Phe Gln Lys Tyr Gly Ile Asp Asn Pro Asp
      260      265      270
Met Asn Lys Leu Gln Phe His Leu Met Leu Asp Glu Phe Phe
      275      280      285

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<210> 6692

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 6692

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Cys Thr His His Leu Asn Thr Phe Asp Gly Gly Val Ser Arg Leu His
1      5      10      15
Gly Phe Lys Ser Gln Arg Gly Ala Asp Tyr Pro Phe Gln Phe Ala Met
      20      25      30
Ile Ala Phe Asn His Val Val Pro Val Leu Asn Leu Ser Val Phe Asn
      35      40      45
Val Arg Arg Ala Pro Ala Phe Ala Phe Glu Gln Ser Lys Arg Ala Thr
      50      55      60
Ile Gly Gly Arg Phe Ile Arg Val Asp Glu Ser Arg Asp Leu Pro Leu
      65      70      75      80
Leu His Val Val Glu Asp Phe Thr Gln Lys Pro Val Cys Ser Phe Ala
      85      90      95
Val Thr Thr Gly Glu Ile Lys Ile Asp Ser Ala Ala Pro Ala Val
      100      105      110
Asp Gly Pro Val Gln Ile Arg Pro Ala Ala Ile Asp Leu His Val Gly
      115      120      125
Phe Ile His Val Pro Arg Ala Lys Ile Gly Arg Val Thr Pro Val Pro
      130      135      140
Ala Gln Pro Phe Phe His Phe Arg Arg Ile Thr Leu Asn Pro Ala Val
      145      150      155      160
Asn Arg Gly Val Ile Asp Ile His Ser Ala Phe Ser Gln His Leu Leu
      165      170      175
Gln Leu Thr Val Thr Asp Ala Val Phe Ala Val Pro Ala Tyr Gly Pro
      180      185      190
Gln Asn Asp Val Thr Leu Lys Met Pro Ala Phe Glu Trp Val His Val
      195      200      205
Gln Leu His Gln Gln Lys Gly Met Ile Ser Leu Ser Pro Pro Thr Ile
      210      215      220
Cys Asn Ser Ala Ser Thr Leu Ala Thr Gly Leu Arg Val Gly Asp Leu
      225      230      235      240
Gly Gly Ser Val Leu Ala Phe Glu Val Gly Ala Lys Glu Arg Met Ala
      245      250      255
Leu Arg Ala Thr His
      260

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<210> 6693

<211> 85

<212> PRT

<213> *Enterobacter cloacae*

<400> 6693

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Val Arg Asn Val Val Gln Arg Gln Val Ser Ala Asp Asp Phe Met Cys
1          5          10          15
Phe Thr Val Asn Gly Glu Met Gln Leu Thr Pro Asp Thr Ala Ala Phe
20          25          30
Leu Ala Met Leu Phe Asp Phe Pro Leu Ala Phe Thr Glu Asp Leu Gln
35          40          45
Pro Gly Gly Ile Asn Tyr Gln Val Cys Asp Phe Thr Pro Gly Gly Arg
50          55          60
Phe Glu Thr Asp Ile Asn Arg Leu Cys Pro Pro Ala Asp Thr Ala Val
65          70          75          80
Ile Arg Ala Ala
85

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<210> 6694

<211> 555

<212> PRT

<213> *Enterobacter cloacae*

<400> 6694

```

Leu Ser Ser Met Phe Leu Leu Val Tyr Tyr Phe Pro Glu Val Leu Met
1          5          10          15
Pro Val Leu Phe Arg Val Lys Val Ile Pro Leu Val Leu Leu Ala
20          25          30
Met Ile Phe Ala Phe Leu Leu Asn Trp Pro Ile Leu Leu His Phe Tyr
35          40          45
Glu Ile Leu Ser His Leu Glu His Val Lys Ile Gly Phe Val Ile Ser
50          55          60
Ile Pro Phe Val Leu Val Ala Ala Leu Asn Val Val Phe Met Pro Phe
65          70          75          80
Ser Val Arg Phe Leu Leu Lys Pro Phe Phe Ala Leu Leu Phe Ile Thr
85          90          95
Gly Ser Leu Val Ser Tyr Ser Thr Leu Lys Tyr Lys Leu Met Phe Asp
100          105          110
Gln Thr Met Ile Gln Asn Ile Ile Glu Thr Asn Pro Gln Glu Ala His
115          120          125
Ser Tyr Leu Asn Gly Ser Ile Ile Ile Trp Phe Val Phe Thr Gly Ile
130          135          140
Leu Pro Ala Ile Leu Leu Phe Ser Ile Lys Ile Gln Tyr Pro Glu Lys
145          150          155          160
Trp Tyr Lys Gly Ile Ala Tyr Arg Leu Leu Ser Val Leu Ala Ser Leu
165          170          175
Ser Leu Ile Ala Gly Val Ala Ala Leu Tyr Tyr Gln Asp Tyr Ala Ser
180          185          190
Val Gly Arg Asn Asn Ser Thr Leu Asn Lys Glu Ile Ile Pro Ala Asn
195          200          205
Tyr Ala Tyr Ser Thr Phe Gln Tyr Val Lys Asp Thr Tyr Phe Thr Thr
210          215          220
Lys Val Pro Phe Gln Thr Leu Gly Asn Asp Ala Lys Arg Val Val Ala
225          230          235          240
His Glu Lys Pro Thr Leu Met Phe Leu Val Ile Gly Glu Thr Ala Arg
245          250          255
Ser Gln Asn Phe Ser Met Asn Gly Tyr Ser Arg Asp Thr Asn Ala Phe
260          265          270
Thr Ser Lys Ser Gly Gly Val Ile Ser Phe Lys Asn Met His Ser Cys

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275 280 285
 Gly Thr Ala Thr Ala Ile Ser Val Pro Cys Met Phe Ser Asn Met Asn
 290 295 300
 Arg Thr Glu Tyr Asp Ser Lys Lys Ala Ser Asn Ser Glu Asn Phe Leu
 305 310 315 320
 Asp Ile Val Gln Lys Thr Gly Val Ser Leu Leu Trp Lys Glu Asn Asp
 325 330 335
 Gly Gly Cys Lys Gly Val Cys Ser Arg Ile Pro Thr Val Glu Ile Lys
 340 345
 Pro Ser Asp Asn Pro Lys Leu Cys Asp Gly Lys Thr Cys His Asp Glu
 355 360 365
 Val Met Leu Glu Asn Leu Asp Asp Glu Ile Ala Lys Met Pro Gly Asp
 370 375 380
 Lys Leu Val Ala Phe His Ile Ile Gly Ser His Gly Pro Thr Tyr Tyr
 385 390 395
 Leu Arg Tyr Pro Ala Glu His Arg His Phe Met Pro Glu Cys Ala Arg
 405 410 415
 Ser Asp Ile Glu Asn Cys Thr Gln Glu Gln Leu Val Asn Thr Tyr Asp
 420 425 430
 Asn Thr Leu Arg Tyr Thr Asp Tyr Val Leu Ala Glu Met Ile Glu Lys
 435 440 445
 Leu Lys Asn Tyr Ser Asp Gln Tyr Asn Thr Val Leu Leu Tyr Val Ser
 450 455 460
 Asp His Gly Glu Ser Leu Gly Glu Ser Gly Leu Tyr Leu His Gly Thr
 465 470 475
 Pro Tyr Lys Leu Ala Pro Asp Gln Gln Thr His Ile Pro Met Gln Val
 485 490 495
 Trp Met Ser Pro Gly Phe Ile Ala Gly Lys His Ile Asn Met Ser Cys
 500 505 510
 Leu Glu Asn Asn Ala Ala Lys Lys Ser Tyr Ser His Asp Asn Leu Phe
 515 520 525
 Ser Ser Ile Leu Gly Leu Trp Asp Val Ser Thr Ser Val Tyr Asn Pro
 530 535 540
 Asp Arg Asp Leu Phe Arg Glu Cys Arg Gly
 545 550 555

<210> 6695

<211> 246

<212> PRT

<213> *Enterobacter cloacae*

<400> 6695

Thr Tyr His Pro Leu Leu Leu Met Glu Leu His Met Asn Pro Phe Lys
 1 5 10 15
 Gly Arg His Phe Gln Arg Asp Ile Ile Leu Trp Ala Val Arg Trp Tyr
 20 25 30
 Cys Lys Tyr Gly Ile Ser Tyr Arg Glu Leu Gln Glu Met Leu Ala Glu
 35 40 45
 Arg Gly Val Asn Val Asp His Ser Thr Ile Tyr Arg Trp Val Gln Arg
 50 55 60
 Tyr Ala Pro Glu Met Glu Lys Arg Leu Arg Trp Tyr Trp Arg Asn Pro
 65 70 75 80
 Ser Asp Leu Cys Pro Trp His Met Asp Glu Thr Tyr Val Lys Val Asn
 85 90 95
 Gly Arg Trp Ala Tyr Leu Tyr Arg Ala Val Asp Ser Arg Gly Arg Thr
 100 105 110
 Val Asp Phe Tyr Leu Ser Ser Arg Arg Asn Ser Lys Ala Ala Tyr Arg
 115 120 125
 Phe Leu Gly Lys Ile Leu Asn Asn Val Lys Lys Trp Gln Ile Pro Arg
 130 135 140
 Phe Ile Asn Thr Asp Lys Ala Pro Ala Tyr Gly Arg Ala Leu Ala Leu

145 150 155 160
 Leu Lys Arg Glu Gly Arg Cys Pro Ser Asp Val Glu His Arg Gln Ile
 165 170 175
 Lys Tyr Arg Asn Asn Val Ile Glu Cys Asp His Gly Lys Leu Lys Arg
 180 185 190
 Ile Ile Gly Ala Thr Leu Gly Phe Lys Ser Met Lys Thr Ala Tyr Ala
 195 200 205
 Thr Ile Lys Gly Ile Glu Val Met Arg Ala Leu Arg Lys Gly Gln Ala
 210 215 220
 Ser Ala Phe Tyr Tyr Gly Asp Pro Leu Gly Glu Met Arg Leu Val Ser
 225 230 235 240
 Arg Val Phe Glu Met
 245

<210> 6696

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6696

Thr Trp Tyr Glu Ser Ala Ala Leu Ser Ser Arg Gly Arg Pro Gln Arg
 1 5 10 15
 Tyr Ser Asp Leu Ala Ile Thr Thr Val Leu Val Ile Lys Arg Val Phe
 20 25 30
 Arg Leu Thr Leu Arg Ala Ala Gln Gly Phe Ile Asp Ser Ile Phe Ser
 35 40 45
 Leu Met Asn Val Pro Leu Arg Cys Pro Asp Tyr Ser Cys Val Ser Arg
 50 55 60
 Arg Ala Lys Ser Val Asn Val Ser Phe Lys Thr Pro Thr Arg Gly Glu
 65 70 75 80
 Ile Ala His Leu Val Ile Asp Ser Thr Gly Leu Lys Val Phe Gly Glu
 83 90 95
 Gly Glu Trp Lys Val Lys Lys His Gly Gln Glu Arg Arg Arg Ile Trp
 100 105 110
 Arg Lys Leu His Leu Ala Val Asp Ser Lys Thr His Glu Ile Ile Cys
 115 120 125
 Ala Asp Leu Ser Leu Asn Asn Val Thr Asp Ser Glu Ala Phe Pro Gly
 130 135 140
 Leu Ile Arg Gln Thr His Arg Lys Ile Arg Ser Ala Ala Ala Asp Gly
 145 150 155 160
 Ala Tyr Asp Thr Arg Leu Cys His Asp Glu Leu Arg His Lys Lys Ile
 165 170 175
 Ser Ala Leu Ile Pro Pro Arg Lys Gly Ala Gly Tyr Trp Pro Gly Glu
 180 185 190
 Tyr Ala Asp Arg Asn Arg Ala Val Ala Asn Gln Arg Met Thr Gly Ser
 195 200 205
 Asn Ala Arg Trp Lys Trp Thr Thr Asp Tyr Asn Arg Arg Ser Ile Ala
 210 215 220
 Glu Thr Ala Met Tyr Arg Val Lys Gln Leu Phe Gly Gly Ser Leu Thr
 225 230 235 240
 Leu Arg Asp Tyr Asp Gly Gln Val Ala Glu Ala Met Ala Leu Val Arg
 245 250 255
 Ala Leu Asn Lys Met Thr Lys Ala Gly Met Pro Glu Ser Val Arg Ile
 260 265 270
 Ala

<210> 6697

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6697

Thr Tyr His Pro Leu Leu Leu Met Glu Leu His Met Asn Pro Phe Lys
 1 5 10 15
 Gly Arg His Phe Gln Arg Asp Ile Ile Leu Trp Ala Val Arg Trp Tyr
 20 25 30
 Cys Lys Tyr Gly Ile Ser Tyr Arg Glu Leu Gln Glu Met Leu Ala Glu
 35 40 45
 Arg Gly Val Asn Val Asp His Ser Thr Ile Tyr Arg Trp Val Gln Arg
 50 55 60
 Tyr Ala Pro Glu Met Glu Lys Arg Leu Arg Trp Tyr Trp Arg Asn Pro
 65 70 75 80
 Ser Asp Leu Cys Pro Trp His Met Asp Glu Thr Tyr Val Lys Val Asn
 85 90 95
 Gly Arg Trp Ala Tyr Leu Tyr Arg Ala Val Asp Ser Arg Gly Arg Thr
 100 105 110
 Val Asp Phe Tyr Leu Ser Ser Arg Arg Asn Ser Lys Ala Ala Tyr Arg
 115 120 125
 Phe Leu Gly Lys Ile Leu Asn Asn Val Lys Lys Trp Gln Ile Pro Arg
 130 135 140
 Phe Ile Asn Thr Asp Lys Ala Pro Ala Tyr Gly Arg Ala Leu Ala Leu
 145 150 155 160
 Leu Lys Arg Glu Gly Arg Cys Pro Ser Asp Val Glu His Arg Gln Ile
 165 170 175
 Lys Tyr Arg Asn Asn Val Ile Glu Cys Asp His Gly Lys Leu Lys Arg
 180 185 190
 Ile Ile Gly Ala Thr Leu Gly Phe Lys Ser Met Lys Thr Ala Tyr Ala
 195 200 205
 Thr Ile Lys Gly Ile Glu Val Met Arg Ala Leu Arg Lys Gly Gln Ala
 210 215 220
 Ser Ala Phe Tyr Tyr Gly Asp Pro Leu Gly Glu Met Arg Leu Val Ser
 225 230 235 240
 Arg Val Phe Glu Met
 245

<210> 6698

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 6698

Phe Ser Val Leu Val Ser Val Gly Arg Ile Leu Gly Gly Gly Glu Val
 1 5 10 15
 Ala Ser Ala Asp Gly Met Arg Phe Val Thr Pro Val Lys Thr Val Asn
 20 25 30
 Ser Gly Pro Asn Arg Lys Tyr Phe Gly Ser Gly Arg Gly Ile Thr Trp
 35 40 45
 Tyr Asn Phe Val Ser Asp Gln Tyr Ser Gly Phe His Gly Ile Val Ile
 50 55 60
 Pro Gly Thr Leu Arg Asp Ser Ile Phe Val Leu Glu Gly Leu Leu Glu
 65 70 75 80
 Gln Gln Thr Gly Leu Asn Pro Val Glu Ile Met Thr Asp Thr Ala Gly
 85 90 95
 Thr Ser Asp Ile Ile Phe Gly Leu Phe Trp Leu Leu Gly Tyr Gln Phe
 100 105 110
 Ser Pro Arg Leu Ala Asp Ala Gly Glu Ala Val Phe Trp Arg Ala Asp
 115 120 125
 Lys Ala Ala Asn Tyr Gly Ala Leu Asp Lys Leu Ala Arg Gly Cys Val
 130 135 140
 Asp Leu Ser Lys Ile Glu Ser His Trp Asp Glu Met Met Arg Val Ala
 145 150 155 160

Gly Ser Leu Lys Leu Gly Thr Ile His Ala Ser Glu Leu Ile Arg Ser
 165 170 175
 Leu Leu Arg Ser Thr Arg Pro Ser Gly Leu Ala Gln Ala Ile Met Glu
 180 185 190
 Val Gly Arg Val Asn Lys Thr Leu Tyr Leu Leu Asn Tyr Ile Asp Asp
 195 200 205
 Glu Asp Tyr Arg Arg Arg Ile Leu Thr Gln Leu Asn Arg Gly Glu Gly
 210 215 220
 Arg His Ala Val Ala Arg Ala Ile Cys Tyr Gly Gln Arg Gly Glu Ile
 225 230 235 240
 Arg Lys Arg Tyr Arg Glu Gly Gln Glu Asp Gln Leu Gly Ala Leu Gly
 245 250 255
 Leu Val Thr Asn Ala Val Val Leu Trp Asn Thr Leu Tyr Met Gln Glu
 260 265 270
 Ala Leu Ser His Leu Arg Ser Ile Gly Glu Gly Pro Glu Asp Glu His
 275 280 285
 Ile Ala Arg Leu Ser Pro Leu Met His Gly His Ile Asn Met Leu Gly
 290 295 300
 His Tyr Thr Phe Thr Leu Pro Glu Asp Ile Met Lys Gly Glu Leu Arg
 305 310 315 320
 Pro Leu Asn Leu Asn Leu Asn Asn Glu Leu Ser Pro
 325 330

<210> 6699

<211> 716

<212> PRT

<213> Enterobacter cloacae

<400> 6699

His Ser Val Pro Phe Trp Val Val Ser Lys Leu Ile Thr Phe Glu Thr
 1 5 10 15
 Val Lys Lys Arg Thr Glu His Pro Phe Thr Lys Gly Cys Val Met Ala
 20 25 30
 Ala Asp Phe Leu Thr Asp Lys Gln Thr Gln Asn Tyr Gly Arg Tyr Ala
 35 40 45
 Ala Glu Pro Asn Glu Ile Gln Leu Ala Arg Tyr Phe His Leu Asp Glu
 50 55 60
 Arg Asp Leu Thr Phe Ile Asn Leu Arg Arg Gly Arg His Asn Arg Leu
 65 70 75 80
 Gly Ile Ala Leu Gln Leu Thr Thr Ala Arg Phe Leu Gly Thr Phe Leu
 85 90 95
 Ser Asp Leu Met Gln Ile Pro Pro Gly Val Gln Phe Tyr Val Ala Arg
 100 105 110
 Gln Leu Asn Ile Arg Tyr Pro Glu Ile Ile Ser Arg Tyr Ala Gln Arg
 115 120 125
 Glu Asn Thr Arg Trp Glu His His Gly Leu Ile Arg Gln His Tyr Ser
 130 135 140
 Tyr His Asp Phe Gly Asp Phe Pro Trp Ser Phe Arg Leu Lys Arg Leu
 145 150 155 160
 Leu Tyr Thr Arg Ala Trp Leu Ser Asn Glu Arg Pro Gly Leu Met Phe
 165 170 175
 Asp Phe Ala Thr Ala Trp Leu Leu Gln Asn Lys Val Leu Leu Pro Ala
 180 185 190
 Ala Ser Thr Leu Thr Arg Val Ile Gly Glu Ile Arg Glu Arg Ala Thr
 195 200 205
 Arg Arg Leu Trp Arg Lys Leu Ala Ala Leu Pro Asn Arg Trp Gln Thr
 210 215 220
 Ala Gln Leu Ala Gly Leu Leu Glu Ile Pro Glu Gly Gln Arg Leu Ser
 225 230 235 240
 Val Met Glu His Leu Lys Arg Gly Pro Val Thr Ile Ser Gly Pro Ala
 245 250 255

Phe Thr Glu Ala Leu Glu Arg Tyr Thr Arg Leu Arg Ser Leu Glu Phe
 260 265 270
 Ser Cys Leu Asn Phe Thr Gly Leu Pro Ala Ile Gln Leu Arg Asn Leu
 275 280 285
 Ala Arg Tyr Ala Gly Met Ala Ser Val Lys Tyr Ile Ser Arg Met Pro
 290 295 300
 Glu Glu Arg Arg Leu Ala Ile Leu Thr Ala Phe Val Lys Ala Gln Glu
 305 310 315 320
 Ile Ser Ala Leu Asp Glu Ala Val Asp Val Leu Asp Met Leu Ile Leu
 325 330 335
 Asn Ile Thr Arg Glu Ala Lys Lys Thr Gly Gln Lys Lys Arg Leu Arg
 340 345 350
 Thr Leu Lys Asp Leu Asp Arg Ala Ala Leu Leu Leu Ala Arg Ala Cys
 355 360 365
 Ala Leu Leu Leu Asp Glu Asp Thr Ala Asp Asp Leu Leu Arg Lys Thr
 370 375 380
 Ile Phe Ser Ser Val Ser Val Ala Arg Leu Ala Glu Ser Val Glu Lys
 385 390 395 400
 Val Asn Glu Leu Ala Arg Pro Gln Asp Thr Asn Phe Gln Asp Glu Met
 405 410 415
 Val Glu Gln Tyr Gly Arg Val Arg Arg Phe Leu Pro Ala Leu Leu Arg
 420 425 430
 Asp Leu His Phe Arg Ala Ala Pro Asp Gly Glu His Thr Leu Ala Ala
 435 440 445
 Ile His Tyr Leu Ala Glu Leu Asn Gly Ser Lys Lys Arg Ile Leu Asp
 450 455 460
 Asp Ala Pro Glu His Ile Ile Ser Gly Pro Trp Lys Arg Leu Val Tyr
 465 470 475 480
 Asp Ala Asp Gly Arg Ile Gln Arg Ala Gly Tyr Ser Leu Cys Leu Leu
 485 490 495
 Glu Arg Leu Gln Asp Ala Leu Arg Arg Asp Ile Trp Leu Glu Asn
 500 505 510
 Ser Asp Arg Trp Gly Asp Pro Arg Gln Lys Leu Leu Gln Gly Glu Glu
 515 520 525
 Trp Gln Ala Gln Arg Val Pro Val Cys Arg Ala Leu Gly His Pro Thr
 530 535 540
 Asn Gly Ser Lys Ala Ser Glu Gln Leu Ala Ala Gln Leu Asp Glu Thr
 545 550 555 560
 Trp Lys Thr Val Ala Ser Arg Phe Asp Arg Asn Thr Ala Val Asp Ile
 565 570 575
 Cys Asn Glu Gly Lys His Pro Ser Leu Thr Ile Ser Ser Leu Asp Lys
 580 585 590
 Leu Asp Glu Pro Pro Ala Leu Ile Gln Leu Ser Ser Arg Val Arg Gln
 595 600 605
 Leu Leu Pro Pro Val Asp Leu Thr Glu Leu Leu Leu Glu Ile Asp Ala
 610 615 620
 Arg Thr Gly Phe Thr Arg Glu Phe Ser His Val Ser Glu Ser Gly Ala
 625 630 635 640
 Arg Ala Gln Asp Leu His Ile Ser Leu Cys Ala Val Met Leu Ala Glu
 645 650 655
 Ala Cys Asn Ile Gly His Glu Pro Leu Ile Lys His Asn Ile Pro Ala
 660 665 670
 Leu Thr Arg His Arg Leu Ser Trp Val Lys Gln Asn Tyr Ile Arg Ala
 675 680 685
 Glu Thr Leu Val Ser Ala Asn Ala Arg Leu Val Asp Phe Gln Ser Ser
 690 695 700
 Leu Ala Leu Ala Gly Tyr Trp Gly Ala Gly Arg
 705 710 715

<210> 6700

<211> 197

<212> PRT

<213> *Enterobacter cloacae*

<400> 6700

Ala Glu Gly Ile Thr Met Gln Arg Leu Phe Pro Ala Leu Trp Val Val
 1 5 10 15
 Leu Phe Leu Val Val Ser Pro Leu His Ala Glu Pro Lys Val Tyr Gly
 20 25 30
 Glu Gln Arg Ile His Arg Trp Trp Asp Ala Val Thr Asp Asp Ile Ala
 35 40 45
 Gln Thr Trp Glu Gln Pro Asp Arg Tyr Asp Leu Tyr Pro Phe Leu
 50 55 60
 Ser Trp His Ala Arg Phe Met Tyr Asp Lys Glu Lys Thr Asp Asn Tyr
 65 70 75 80
 Asn Glu Met Pro Trp Gly Gly Gly Leu Gly Val Ser Arg Tyr Asn Asp
 85 90 95
 Glu Gly Asn Trp Ser Ala Leu Phe Ala Met Met Phe Lys Asp Ser His
 100 105 110
 Asn Glu Trp Gln Pro Ala Met Gly Tyr Gly Trp Glu Lys Gly Trp Phe
 115 120 125
 Leu Asp Asn Ala Lys Asp Phe Arg Leu Gly Leu Gly Ala Ala Ala Gly
 130 135 140
 Ile Thr Ala Arg Asp Asp Phe Ala Asn Tyr Val Pro Leu Pro Phe Ile
 145 150 155 160
 Phe Pro Leu Phe Ser Ala Gly Tyr Lys Arg Val Thr Val Gln Phe Thr
 165 170 175
 Tyr Ile Pro Gly Thr Tyr Asn Asn Gly Asn Val Leu Phe Ala Trp Leu
 180 185 190
 Arg Leu Gly Phe
 195

<210> 6701

<211> 905

<212> PRT

<213> *Enterobacter cloacae*

<400> 6701

Lys Glu Pro Glu Glu Gly Thr Met Ile Thr Glu Lys Pro His Arg Pro
 1 5 10 15
 Tyr Tyr Gln Gln Thr Val Asp Glu Thr Leu Thr Asn Ile Gln Ser Ser
 20 25 30
 Leu Asp Gly Leu Ser Ser Thr Glu Ala Thr Ala Arg Leu Glu Lys Tyr
 35 40 45
 Gly Glu Asn Ala Leu Pro Gln Lys Pro Gly Lys Pro Gly Trp Leu Arg
 50 55 60
 Phe Leu Ala His Phe Asn Asp Val Leu Ile Tyr Val Leu Leu Ala Ala
 65 70 75 80
 Ala Leu Leu Lys Leu Ile Met Gly His Trp Val Asp Met Phe Val Ile
 85 90 95
 Leu Gly Val Ala Ile Ile Asn Ala Leu Ile Gly His Ile Gln Glu Ser
 100 105 110
 Asn Ala Glu Lys Ser Leu Gln Ser Ile Arg Asn Met Leu Ser Ser Glu
 115 120 125
 Ala Val Val Ile Arg Gln Gly Asn His Glu Thr Ile Pro Thr Thr Ala
 130 135 140
 Leu Val Pro Gly Asp Ile Val Val Ile Arg Ala Gly Asp Arg Ile Pro
 145 150 155 160
 Ala Asp Leu Arg Val Ile Glu Ala His Asn Leu Arg Val Glu Glu Ala
 165 170 175
 Ile Leu Thr Gly Glu Ser Thr Val Val Glu Lys Ser Ser Asp Val Leu
 180 185 190

Ser Gly Glu Leu Pro Leu Gly Asp Arg Tyr Asn Leu Leu Tyr Ser Gly
 195 200 205
 Thr Thr Val Ser Ser Gly Gly Gly Lys Gly Leu Val Val Ala Thr Gly
 210 215 220
 Gly Glu Thr Glu Leu Gly His Ile Asn Gln Met Met Ser Asp Ile Glu
 225 230 235
 Lys His Arg Thr Pro Leu Met Val Gln Met Asp Lys Leu Gly Lys Thr
 245 250 255
 Ile Phe Ile Thr Ile Leu Val Met Met Leu Ala Leu Phe Val Phe Ser
 260 265 270
 Leu Ile Phe Arg Asp Met Pro Val Ser Glu Leu Val Leu Ser Leu Ile
 275 280 285
 Ser Leu Ala Val Ala Ala Val Pro Glu Gly Leu Pro Ala Ile Ile Ser
 290 295 300
 Ile Ile Leu Ser Leu Gly Val Gln Ala Met Ala Arg Arg Lys Ala Ile
 305 310 315 320
 Ile Arg Lys Leu Pro Thr Val Glu Thr Leu Gly Ala Met Thr Val Ile
 325 330 335
 Cys Ser Asp Lys Thr Gly Thr Leu Thr Met Asn Glu Met Thr Val Lys
 340 345 350
 Ala Val Ile Thr Ala Asp Thr Thr Tyr Arg Val Glu Gly Asp Ser Tyr
 355 360 365
 Glu Pro Val Gly Ala Ile His Pro Val Asp Asp Pro Thr Pro Val Thr
 370 375 380
 Val Thr Gln Gly Ser Val Leu Glu Arg Tyr Leu Arg Thr Val Asp Leu
 385 390 395 400
 Cys Asn Asp Ser Gln Leu Ile Lys Asp Glu Gln Gly Leu Trp Lys Ile
 405 410 415
 Thr Gly Gly Pro Thr Glu Gly Ala Leu Lys Val Leu Ala Ala Lys Ile
 420 425 430
 Pro Leu Pro Thr Ile Asp Ala Glu Leu Arg Ser Lys Ile Pro Phe Asp
 435 440 445
 Ser Gln Tyr Lys Tyr Met Ser Thr Leu Tyr His Leu Gly Asp Glu Glu
 450 455 460
 Val Met Leu Ile Thr Gly Ala Pro Asp Val Leu Phe Arg Leu Cys Gln
 465 470 475 480
 His Gln Gln Thr Gln Asn Gly Leu Glu Pro Phe Asn Leu His Tyr Trp
 485 490 495
 Glu Glu Lys Ile Glu Glu Tyr Ala Arg Glu Gly Leu Arg Met Val Ala
 500 505 510
 Ala Ala Trp Lys Pro Ala Ala Ser Gly Gln Arg Glu Leu Thr His Ala
 515 520 525
 Asp Leu Gln Glu Gly Val Ile Leu Leu Gly Ile Ala Gly Met Met Asp
 530 535 540
 Pro Pro Arg Pro Glu Ala Ile Ser Ala Ile Ala Asp Cys Leu Gln Ala
 545 550 555 560
 Gly Ile Arg Val Lys Met Ile Thr Gly Asp His Pro Gln Thr Ala Met
 565 570 575
 Ser Ile Gly Gln Met Leu Gly Ile Gly Asn Ala Ala Ser Ala Ile Thr
 580 585 590
 Gly Arg Glu Leu Glu Ala Met Asp Asp His Gln Leu Ser Glu Ala Ala
 595 600 605
 Gln Lys Tyr Asp Ile Phe Ala Arg Thr Ser Pro Glu Asp Lys Phe Arg
 610 615 620
 Leu Val Gln Ala Leu Gln Ser Lys Gln Glu Val Val Gly Met Thr Gly
 625 630 635 640
 Asp Gly Val Asn Asp Ala Pro Ala Leu Lys Arg Ala Asp Val Gly Ile
 645 650 655
 Ala Met Gly Ile Lys Gly Thr Glu Val Thr Lys Glu Ala Ala Asp Met
 660 665 670
 Val Leu Thr Asp Asp Asn Phe Ala Thr Ile Ala Arg Ala Val His Glu

675 680 685
 Gly Arg Arg Val Tyr Asp Asn Leu Lys Lys Thr Ile Leu Phe Val Ile
 690 695 700
 Pro Ser Asn Ile Ala Gln Ala Leu Leu Ile Ile Ala Leu Leu Ala
 705 710 720
 Gly Asn Leu Ile Pro Leu Thr Pro Val Leu Ile Leu Trp Met Asn Met
 725 730 735
 Ala Thr Ser Ala Thr Leu Ser Phe Gly Leu Ala Phe Glu Ala Gly Glu
 740 745 750
 Lys Asp Ile Met Asn Arg Pro Pro Arg Lys Ser Asn Leu His Val Met
 755 760 765
 Asp Gly Tyr Ala Ile Trp Arg Val Val Phe Val Gly Leu Met Ile Ala
 770 775 780
 Ile Ser Ala Phe Val Met Glu Ala Trp Leu Gln Pro Arg Gly Tyr Ser
 785 790 795
 Pro Glu Ile Ile Arg Thr Val Leu Leu Gln Thr Val Val Thr Ala Gln
 805 810 815
 Trp Phe Tyr Met Leu Asn Cys Arg Val Thr Asp Gly Phe Ser Leu Ser
 820 825 830
 Lys Gly Leu Leu Ala Asn Lys Gly Ile Trp Ile Val Ser Gly Val Leu
 835 840 845
 Met Ala Leu Gln Leu Leu Ile Ile Tyr Ala Pro Phe Met Gln Met Leu
 850 855 860
 Phe Gly Thr Glu Ala Leu Pro Phe Arg Tyr Trp Ile Ile Thr Cys Leu
 865 870 875
 Ile Gly Phe Ala Met Phe Met Ile Val Glu Ala Glu Lys Val Phe Thr
 885 890 895
 Arg Arg Trp Arg Thr Thr Lys Arg
 900 905

<210> 6702

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 6702

His Pro Phe Leu Phe Ser Val Lys Gly Ile His Ala Cys Thr His Gly
 1 5 10 15
 Val Asp Ala Ile Ser Pro Asp Ser Leu Thr Val Val Leu Val Ile Lys
 20 25 30
 Arg Met Leu Asp Met Tyr Lys Thr Ile Leu Val Pro Val Asp Val Tyr
 35 40 45
 Glu Thr Ala Leu Ser Asp Lys Ala Leu Gln His Ala Gln Phe Leu Ala
 50 55 60
 Gln Ser Ala Ser Gly Asn Val His Leu Leu Tyr Val Met Pro Lys Phe
 65 70 75 80
 Ser Ala Glu Leu Thr Arg Gly Phe Ile Ala Asp Ala Arg Lys Met Asp
 85 90 95
 Glu Tyr Met Ile Asn Asn Ala Lys Glu Lys Leu Ala Ala Leu Val Lys
 100 105 110
 Lys Ile Asn Leu Pro Glu Ala Asn Val His Leu His Val Arg Ser Gly
 115 120 125
 Asn Ile Arg Asp Glu Val Ile Lys Leu Ala Asp Glu Leu Asn Val Gly
 130 135 140
 Ala Ile Ile Val Gly Ser Arg Asn Pro Asn Ile Gln Thr His Leu Leu
 145 150 155 160
 Gly Ser Glu Ala Ala Ser Ile Val Arg Tyr Ala His Val Pro Val Phe
 165 170 175
 Val Ile Arg
 180

<210> 6703
 <211> 238
 <212> PRT
 <213> *Enterobacter cloacae*

<220>
 <221> UNSURE
 <222> (238)

<400> 6703
 Val Gln Asn Thr Met Ile Arg Phe Ala Ser Phe Val Phe Thr Leu Gly
 1 5 10 15
 Ile Leu Val Pro Ala Ala Ser Ala Val Thr Tyr Pro Leu Pro Pro Glu
 20 25 30
 Gly Ser Arg Leu Val Gly Ala Pro Ile Thr Val Pro Glu Gly
 35 40 45
 Asn Thr Leu Pro Leu Glu Ala Phe Ala Ala Gln His Gly Gln Gly Leu
 50 55 60
 Ser Asn Met Leu Glu Ala Asn Pro Gly Val Asp Pro Phe Leu Pro Arg
 65 70 75 80
 Ala Gly Thr Gln Leu Ala Val Pro Gln Gln Leu Ile Leu Pro Pro Thr
 85 90 95
 Val Arg Glu Gly Ile Val Val Asn Val Ala Glu Met Arg Leu Tyr Tyr
 100 105 110
 Tyr Pro Pro Gly Ser Asn Thr Val Glu Val Leu Pro Ile Gly Ile Gly
 115 120 125
 Gln Ala Gly Arg Glu Thr Pro Arg Asn Trp Val Thr Ala Val Glu Arg
 130 135 140
 Lys Gln Glu Gly Pro Thr Trp Ser Pro Thr Pro Asn Thr Arg Arg Ala
 145 150 155 160
 Tyr Ala Lys Glu Gly Lys Thr Leu Pro Ala Phe Val Pro Ala Gly Pro
 165 170 175
 Asp Asn Pro Met Gly Leu Tyr Ala Leu Tyr Ile Gly Arg Leu Tyr Ala
 180 185 190
 Ile His Gly Thr Asn Ser Asn Phe Gly Ile Gly Leu Arg Val Ser Gln
 195 200 205
 Gly Cys Ile Arg Leu Arg Asn Asn Asp Ile Lys Tyr Leu Phe Asp Asp
 210 215 220
 Val Ser Phe Ser Pro Gly Ser Ala Gly Ser Gly Ile Ile Xaa
 225 230 235

<210> 6704
 <211> 370
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 6704
 Asn Asn Tyr Tyr Gln Gly Asn Thr Val Lys Arg Tyr Leu Ser Leu Leu
 1 5 10 15
 Pro Val Val Leu Leu Leu Thr Ala Cys Asp Pro Lys Ser Asp Arg
 20 25 30
 Ala Ala Pro Leu Pro Lys Met Val Lys Val Ala Glu Val Val Lys Ala
 35 40 45
 Gly Asn Ala Gln Gln Arg Val Phe Pro Ala Arg Ile Glu Ser Gly Asp
 50 55 60
 Ala Thr Asp Leu Ala Phe Lys Arg Ala Gly Gln Ile Glu Thr Leu Asp
 65 70 75 80
 Ile Arg Gln Gly Ala Val Val Lys Gln Gly Gln Arg Leu Ala Ser Leu
 85 90 95
 Asn Asp Arg Glu Ala Arg Gln Arg Leu Asn Asp Arg Gln Thr Ala Ala
 100 105 110

Thr Leu Ala Gln Arg Gln Phe Asp Arg Phe Gln Thr Leu Ala Gly Arg
 115 120 125
 Gln Ala Val Ser Lys Ala Glu Met Asp Val Gln Arg Ala Asn Arg Asp
 130 135 140
 Ser Ala Asn Ala Ala Leu Gln Ile Ala Arg Glu Glu Leu Ser Gln Met
 145 150 155 160
 Thr Leu Val Ala Pro Phe Ser Gly Thr Ala Ala Ser Val His Val Arg
 165 170 175
 Asn His Gln Val Val Ser Ala Gly Gln Pro Val Val Thr Leu Thr Arg
 180 185 190
 Thr Asp Leu Leu Asp Val Val Phe Ser Leu Pro Glu Asn Leu Phe Asn
 195 200 205
 Thr Phe Asp Ile Arg Asn Ala Gln Tyr Lys Pro Val Val Arg Ile Asn
 210 215 220
 Ala Leu Pro Gly Arg Glu Phe Thr Ala Val Tyr Lys Glu His Ser Gly
 225 230 235 240
 Ser Ser Asp Ser Asn Thr Leu Thr Trp Gln Val Ile Leu Thr Met Pro
 245 250 255
 Arg Pro Asp Asp Phe Pro Val Val Gly Gly Val Ser Gly Thr Val Thr
 260 265 270
 Ile Asn Leu Thr Asn Leu Pro Ala Gly Val Gly Ser Glu Ala Leu Val
 275 280 285
 Val Pro Val Glu Ala Val Phe Asn Pro Asp Asn His Pro Arg Asn Glu
 290 295 300
 Pro His Val Trp Val Val Thr Gly Glu Gly Asp Thr Leu His Leu Glu
 305 310 315 320
 Asp Arg Lys Val Ser Val Gly Gln Val Ser Ala Glu Gly Val Ile Ile
 325 330 335
 Val Gly Gly Leu Lys Ala Gly Glu Arg Val Val Ala Ala Gly Val Gly
 340 345 350
 Glu Leu His Pro Asn Gln Pro Val Arg Ile Trp Thr Arg Glu Arg Gly
 355 360 365
 Leu
 370

<210> 6705

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 6705

Val Val Ser Ala Val Ile Thr Ala Phe Thr Val Ile Ser Phe Met Val
 1 5 10 15
 Arg Val Pro Val Leu Ser Glu Gln Ile Thr Val Ile Ala Pro Ser Val
 20 25 30
 Ser Thr Val Gly Ser Leu Arg Ile Ile Ala Leu Arg Arg Ala Ile Ala
 35 40 45
 Cys Thr Pro Ser Glu Arg Met Ile Glu Ile Met Ala Gly Asn Pro Ser
 50 55 60
 Gly Thr Ala Ala Thr Ala Arg Leu Ile Ser Asp Ser Thr Ser Ser Glu
 65 70 75 80
 Thr Gly Ile Ser Arg Lys Met Arg Leu Lys Thr Asn Ser Ala Ser Ile
 85 90 95
 Ile Thr Arg Met Val Ile Lys Met Val Leu Pro Ser Leu Ser Ile Cys
 100 105 110
 Thr Ile Asn Gly Val Arg Cys Phe Ser Met Ser Asp Ile Ile Trp Leu
 115 120 125
 Ile Trp Pro Ser Ser Val Ser Pro Pro Val Ala Thr Thr Ser Pro Phe
 130 135 140
 Pro Pro Pro Glu Leu Thr Val Val Pro Glu Tyr Ser Arg Leu
 145 150 155

<210> 6706
 <211> 448
 <212> PRT
 <213> Enterobacter cloacae

<400> 6706

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Leu Lys Ile Ser Thr Asp Arg Thr Thr Met Asp Ser Thr Leu Ile Ser
1      5      10      15
Ala Arg Arg Asn Glu Glu Thr Pro Ser Leu Asn Arg Ala Arg Arg Ala
20      25      30
Ala Leu Gly Ser Phe Ala Gly Ala Val Val Asp Trp Tyr Asp Phe Leu
35      40      45
Leu Tyr Gly Ile Thr Ala Ala Leu Val Phe Asn Arg Glu Phe Phe Pro
50      55      60
Gln Ile Ser Pro Ala Met Gly Thr Leu Ala Ala Phe Ala Thr Phe Gly
65      70      75      80
Val Gly Phe Leu Phe Arg Pro Leu Gly Gly Ile Ile Phe Gly His Phe
85      90      95
Gly Asp Arg Leu Gly Arg Lys Arg Met Leu Met Leu Thr Val Trp Met
100     105     110
Met Gly Ile Ala Thr Ala Leu Ile Gly Ile Leu Pro Ser Phe Ala Ser
115     120     125
Ile Gly Trp Trp Ala Pro Val Leu Leu Val Thr Leu Arg Ala Ile Gln
130     135     140
Gly Phe Ala Val Gly Gly Glu Trp Gly Gly Ala Ala Leu Leu Ser Val
145     150     155     160
Glu Ser Ala Pro Lys Asn Lys Lys Ala Phe Tyr Ser Ser Gly Val Gln
165     170     175
Val Gly Tyr Gly Val Gly Leu Leu Leu Ser Thr Gly Leu Val Ser Leu
180     185     190
Ile Ser Gln Leu Thr Thr Asp Glu Gln Phe Leu Ser Trp Gly Trp Arg
195     200     205
Ile Pro Phe Ile Phe Ser Ile Val Leu Val Val Ala Leu Trp Ile
210     215     220
Arg Asn Gly Met Glu Glu Ser Ala Glu Phe Glu Arg Gln Gln Arg Glu
225     230     235     240
Lys Pro Val Ala Lys Lys Arg Leu Pro Val Met Glu Ala Leu Val Gln
245     250     255
His Pro Gly Ala Phe Leu Lys Ile Ile Ala Leu Arg Leu Cys Glu Leu
260     265     270
Leu Thr Met Tyr Ile Val Thr Ala Phe Ala Leu Asn Tyr Ser Thr Gln
275     280     285
Asn Leu Gly Leu Pro Arg Glu Leu Phe Leu Asn Ile Gly Leu Val Val
290     295     300
Gly Gly Ile Ser Cys Leu Thr Ile Pro Cys Phe Ala Trp Leu Ala Asp
305     310     315     320
Arg Phe Gly Arg Arg Arg Val Tyr Ile Thr Gly Ala Leu Ile Gly Thr
325     330     335
Leu Ser Ala Trp Pro Phe Phe Met Ala Leu Glu Ala Gln Ser Val Phe
340     345     350
Trp Ile Val Phe Phe Ala Ile Met Leu Ala Asn Ile Ala His Asp Met
355     360     365
Val Val Cys Val Gln Gln Pro Met Phe Thr Glu Leu Phe Gly Ala Ser
370     375     380
Tyr Arg Tyr Ser Gly Ala Gly Val Gly Tyr Gln Val Ala Ser Val Val
385     390     395     400
Gly Gly Gly Phe Thr Pro Phe Ile Ala Ala Ala Leu Val Thr Phe Ser
405     410     415
Gly Gly Asn Trp His Ser Val Ala Ile Tyr Leu Leu Ala Gly Cys Leu
420     425     430

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Leu Ser Ala Ala Thr Ala Leu Leu Met Lys Glu Thr Ala His Ser
 435 440 445

<210> 6707

<211> 1025

<212> PRT

<213> *Enterobacter cloacae*

<400> 6707

Thr Gly Thr Ile Met Asp Ile Ser Arg Gln Phe Ile Ser Asn Pro Val
 1 5 10 15
 Arg Val Trp Leu Thr Ile Leu Leu Leu Gly Val Gly Gly Ile Ile Ala
 20 25 30
 Leu Leu Asn Ile Gly Arg Leu Glu Asp Pro Ala Phe Thr Ile Lys Thr
 35 40 45
 Ala Val Val Ile Thr His Tyr Pro Gly Ala Ser Ala Gln Gln Val Glu
 50 55 60
 Glu Glu Val Thr Leu Pro Leu Glu Asn Ala Leu Gln Gln Leu Pro Tyr
 65 70 75 80
 Leu Asp Asn Val Ser Ser Ile Ser Ser Ser Gly Leu Ser Gln Ile Thr
 85 90 95
 Val Asn Ile Ala Ser Arg Tyr His Ser Asn Ala Leu Pro Gln Ile Trp
 100 105 110
 Asp Glu Leu Arg Arg Arg Val Gly Asp Ala Ala Arg Gln Phe Pro Pro
 115 120 125
 Gly Val Val Thr Pro Phe Val Asn Asp Asp Phe Gly Asp Val Phe Gly
 130 135 140
 Phe Phe Phe Ala Ile Ser Gly Asp Glu Phe Ser Asn Pro Glu Leu Val
 145 150 155 160
 Arg Tyr Ala Glu Gln Leu Arg Arg Glu Leu Val Leu Val Pro Gly Val
 165 170 175
 Gly Lys Val Ala Ile Gly Gly Ala Leu Thr Gln Gln Ile Asn Val Asp
 180 185 190
 Ile Ser Leu Ser Lys Met Ala Ala Arg Gly Ile Thr Leu Asn Gln Leu
 195 200 205
 Ser Ala Gln Leu Ser Arg Leu Asn Val Val Ser Ser Ala Gly Glu Ile
 210 215 220
 Pro Ser Gly Thr Glu Ser Ile Arg Leu His Pro Thr Gly Glu Phe Glu
 225 230 235 240
 Ser Ile Asp Glu Leu Ala Asp Leu Ile Val Thr Pro Pro Gly Val Gly
 245 250 255
 Ala Ala Thr Arg Leu Arg Asp Ile Ala Thr Leu Ser Arg Gly Leu Asp
 260 265 270
 Ala Ser Pro Ala Ser Ile Tyr His Ala Asn Gly Lys Glu Ala Val Thr
 275 280 285
 Met Gly Val Ser Phe Ile Pro Gly Val Asn Val Ile Asp Val Gly His
 290 295 300
 Ala Leu Glu Ala Lys Leu Glu Gln Met Ser Ala Glu Lys Pro Ala Gly
 305 310 315 320
 Ile His Ile Asp Leu Phe Tyr Asp Gln Ala Ala Glu Val Gly His Ser
 325 330 335
 Val Asn Gly Phe Ile Ile Asn Phe Val Met Ala Leu Ala Ile Val Val
 340 345 350
 Gly Val Leu Leu Ile Phe Met Gly Leu Arg Ser Gly Ile Ile Ile Ala
 355 360 365
 Phe Ser Leu Ala Leu Asn Val Leu Gly Thr Leu Leu Ile Met Tyr Leu
 370 375 380
 Trp Gly Ile Glu Leu Gln Arg Ile Ser Leu Gly Ala Leu Ile Ile Ala
 385 390 395 400
 Leu Ser Met Leu Val Asp Asn Ala Ile Val Ile Val Glu Gly Val Leu
 405 410 415

Ile Ala Arg Gln Gln Gly Ser Ser Leu Met Asn Ala Ile Ser Asn Ile
 420 425 430
 Ile Arg Arg Ser Ala Leu Pro Leu Leu Gly Ala Thr Val Ile Ala Ile
 435 440 445
 Leu Ala Phe Ala Pro Val Gly Leu Ser Gln Asp Ser Thr Gly Glu Tyr
 450 455 460
 Cys Lys Ser Leu Phe Gln Val Leu Leu Ile Ser Leu Met Leu Ser Trp
 465 470 475 480
 Phe Ser Ala Leu Thr Ile Thr Pro Val Leu Ile Lys Trp Trp Leu Phe
 485 490 495
 Lys Arg Asp Ala Ala Pro Pro Glu Ala Asp Glu Thr Asp Pro Tyr Asp
 500 505 510
 Lys Arg Ile Tyr Arg Ile Tyr Gln Ala Val Leu Asn Ala Leu Leu Arg
 515 520 525
 Arg Lys Ala Pro Thr Leu Val Val Met Ala Ala Leu Leu Ala Ala
 530 535 540
 Ile Trp Gly Phe Gly Ser Val Arg Gln Asn Phe Phe Pro Ser Ser Ser
 545 550 555 560
 Thr Pro Ile Phe Phe Val Asp Leu Trp Leu Pro Tyr Gly Thr Asp Ile
 565 570 575
 Lys Trp Thr Glu Lys Met Thr Ser Asp Ile Glu Lys Thr Ile Asn Gly
 580 585 590
 Gln Pro Gly Val Glu Thr Thr Val Ser Thr Ile Gly Gln Gly Ser Met
 595 600 605
 Arg Phe Ile Leu Thr Tyr Ser Gly Gln Arg Gln Tyr Ser Asn Tyr Ala
 610 615 620
 Gln Ile Met Val Arg Met Asp Asp Gln Arg Asn Ile Pro Ala Leu Thr
 625 630 635 640
 Arg His Val Asp Glu Tyr Ile Ala Arg Asn Tyr Pro Gln Val Asn Ala
 645 650 655
 Ser Thr Lys Arg Val Met Phe Gly Pro Ser Gly Asp Ser Ala Ile Glu
 660 665 670
 Val Arg Ile Lys Gly Pro Asp Pro Asp Arg Leu Arg Leu Ile Ala Ser
 675 680 685
 Gln Val Asp Asn Ile Leu Thr Arg Asp Pro Ala Thr Asp Ser Val Arg
 690 695 700
 Asn Asp Trp Gln Asn Arg Ser Lys Val Ile Arg Pro Gln Tyr Ile Thr
 705 710 715 720
 Ala Leu Gly Arg Glu Leu Gly Val Asp Lys Gln Asp Val Asp Asn Ala
 725 730 735
 Leu Glu Met Asn Phe Ser Gly Ser Arg Ala Gly Leu Tyr Arg Glu Gly
 740 745 750
 Ser Asp Leu Leu Pro Val Val Val Arg Pro Pro Glu Ser Glu Arg Leu
 755 760 765
 Asp Ala Asn His Leu Asn Asn Val Leu Val Trp Ser Gln Thr Arg Gln
 770 775 780
 Gln Tyr Ile Pro Leu Ser Asn Val Val Ser Gly Phe Ala Leu Glu Trp
 785 790 795 800
 Glu Asp Pro Leu Ile Leu Arg Arg Asp Arg Ser Arg Val Leu Thr Val
 805 810 815
 Gln Thr Asp Pro Asp Pro Leu Ser Gln Gln Thr Ser Gly Asp Ile Leu
 820 825 830
 Ala Arg Val Lys Pro Gln Ile Asp Ala Leu Pro Leu Pro His Gly Tyr
 835 840 845
 Ser Ile Glu Trp Gly Gly Asp Ala Glu Asn Ser Ser Glu Ala Gln Gln
 850 855 860
 Gly Leu Phe Thr Thr Leu Pro Ile Gly Tyr Leu Val Met Phe Val Ile
 865 870 875 880
 Thr Val Leu Met Phe Ser Ser Val Lys Asn Ala Val Ala Ile Trp Leu
 885 890 895
 Thr Val Pro Leu Ala Leu Ile Gly Val Thr Pro Gly Phe Leu Ile Thr

900 905 910
 Gly Ile Pro Phe Gly Phe Met Ala Leu Ile Gly Leu Leu Ser Leu Ser
 915 920 925
 Gly Met Leu Ile Arg Asn Gly Ile Val Leu Val Glu Glu Ile Glu Gln
 930 935 940
 Gln Lys Ala Gln Gln Asp Gln His Ser Ala Ile Val Tyr Ala Ala Thr
 945 950 955 960
 Ser Arg Leu Arg Pro Ile Leu Leu Thr Ala Phe Thr Thr Val Leu Asp
 965 970 975
 Leu Ala Pro Leu Leu Leu Asp Val Phe Phe Gln Ser Met Ala Val Val
 980 985 990
 Ile Met Phe Gly Leu Gly Phe Ala Thr Ile Leu Thr Leu Leu Val Leu
 995 1000 1005
 Pro Val Ile Tyr Ala Cys Phe His Arg Lys Asp Lys Ala Glu Gln Gln
 1010 1015 1020

1025

<210> 6708

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 6708

Arg Lys Pro Arg Thr Ala Asp Leu Leu Thr Phe Val Ser Gln Ala Cys
 1 5 10 15
 Asp Ile Leu Ser Gly Lys Ala Ala His Leu Trp Asn Lys Glu Thr Asp
 20 25 30
 Met Asn Asn Lys Gly Ser Ser Leu Thr Pro Ala Gln Ala Leu Glu Lys
 35 40 45
 Leu Asp Ala Leu Tyr Glu Gln Ser Val Asn Ala Leu Arg Ser Ala Ile
 50 55 60
 Ser Asp Tyr Ile Glu Thr Gly Lys Leu Pro Asp Glu Lys Ala Arg Thr
 65 70 75 80
 Gln Gly Leu Phe Val Tyr Pro Ser Leu Ser Val Thr Trp Asp Gly Ser
 85 90 95
 Ala Ser Ser Asn Pro Lys Thr Arg Ala Tyr Ala Arg Phe Thr His Ser
 100 105 110
 Gly Cys Tyr Ser Thr Thr Ile Thr Arg Pro Ala Leu Phe Arg Pro Tyr
 115 120 125
 Leu Glu Glu Gln Leu Thr Leu Leu Tyr Gln Asp Tyr Gly Ala His Ile
 130 135 140
 Ser Val Glu Pro Ser Leu His Glu Ile Pro Tyr Pro Tyr Val Ile Asp
 145 150 155 160
 Gly Ser Ala Leu Thr Leu Asp Arg Ser Met Ser Ala Gly Leu Thr Arg
 165 170 175
 His Phe Pro Thr Thr Glu Leu Ser Gln Ile Gly Asp Glu Thr Ala Asp
 180 185 190
 Gly Ile Tyr His Pro Ala Glu Phe Ser Pro Leu Ser His Phe Asp Ala
 195 200 205
 Arg Arg Val Asp Phe Ser Leu Ala Arg Leu Arg His Tyr Thr Gly Thr
 210 215 220
 Pro Ala Glu His Phe Gln Pro Phe Val Leu Phe Thr Asn Tyr Thr Arg
 225 230 235 240
 Tyr Val Asp Glu Phe Val Arg Trp Gly Cys Ser Gln Ile Leu Ala Pro
 245 250 255
 Asp Ser Pro Tyr Val Ala Leu Ser Cys Ala Gly Gly Ile Trp Ile Thr
 260 265 270
 Ala Glu Thr Glu Ala Pro Glu Glu Ala Ile Ser Asp Leu Ala Trp Lys
 275 280 285
 Lys His Gln Met Pro Ala Trp His Leu Ile Thr Ala Asp Gly Gln Gly

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      290              295              300
Ile Thr Leu Ile Asn Ile Gly Val Gly Pro Ser Asn Ala Lys Thr Ile
305              310              315              320
Cys Asp His Leu Ala Val Leu Arg Pro Asp Val Trp Leu Met Ile Gly
      325              330              335
His Cys Gly Gly Leu Arg Glu Ser Gln Leu Ile Gly Asp Tyr Val Leu
      340              345              350
Ala His Ala Tyr Leu Arg Asp Asp His Val Leu Asp Ala Val Leu Pro
      355              360              365
Pro Asp Ile Pro Ile Pro Ser Ile Ala Glu Val Gln Arg Ala Leu Tyr
      370              375              380
Asp Ala Thr Lys Glu Val Ser Gly Met Pro Gly Glu Glu Val Lys Gln
385              390              395              400
Arg Leu Arg Thr Gly Thr Val Val Thr Thr Asp Asp Arg Asn Trp Glu
      405              410              415
Leu Arg Tyr Ser Ala Ser Ala Leu Arg Phe Asn Leu Ser Arg Ala Val
      420              425              430
Ala Ile Asp Met Glu Ser Ala Thr Ile Ala Ala Gln Gly Tyr Arg Phe
      435              440              445
Arg Val Pro Tyr Gly Thr Leu Cys Val Ser Asp Asn Pro Leu His
450              455              460
Gly Glu Ile Lys Leu Pro Gly Gln Ala Asn Arg Phe Tyr Glu Gly Ala
465              470              475              480
Ile Ser Glu His Leu Gln Ile Gly Ile Arg Ala Ile Asp Leu Leu Arg
      485              490              495
Ala Glu Gly Asp Lys Leu His Ser Arg Lys Leu Arg Thr Phe Asn Glu
500              505              510
Pro Pro Phe Arg
515

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<210> 6709

<211> 180

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (180)

<400> 6709

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Arg Val Leu Lys His Ile Ile Leu Thr Ala Ile Cys Ala Leu Leu Asn
1              5              10              15
Leu Tyr Ala Lys Lys Phe Arg Cys Pro Asp Val Leu Thr Ser Ile Leu
20              25              30
Ser Met Phe Thr Leu Val Pro Asp Phe Ser Pro His Ser Pro Gly Ser
35              40              45
Leu Thr Met Thr Arg Lys Gln Ala Thr Ile Ala Val Arg Ser Gly Leu
50              55              60
Asn Asp Asp Glu Gln Tyr Gly Cys Val Val Pro Pro Ile His Leu Ser
65              70              75              80
Ser Thr Tyr Asn Phe Thr Gly Phe Asn Glu Pro Arg Ala His Asp Tyr
85              90              95
Ser Arg Arg Gly Asn Pro Thr Arg Asp Val Thr Gln Arg Ala Leu Ala
100              105              110
Glu Leu Glu Gly Gly Ala Gly Ala Val Leu Thr Asn Thr Gly Met Ser
115              120              125
Ala Ile His Leu Val Thr Thr Val Phe Leu Lys Pro Gly Asp Leu Leu
130              135              140
Val Ala Pro His Glu Cys Tyr Gly Gly His Tyr Pro Leu Phe Asp Ile
145              150              155              160
Pro Ala Asn Thr Gly Phe Tyr Leu Val Phe Leu Pro Pro Ser Ser Ile

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Tyr Thr Thr Xaa
180

165

170

175

<210> 6710
<211> 104
<212> PRT
<213> Enterobacter cloacae

<400> 6710

Pro Thr Ser Val Asn Leu Val Ala Ser Thr Leu Met Asn Gly Ala Leu
1 5 10 15
Ala Ser Leu Ala Arg Arg Arg Ala Ile Ser Val Leu Pro Thr Pro Val
20 25 30
Gly Pro Ile Ile Arg Ile Phe Phe Gly Val Thr Ser Trp Arg Ser Ser
35 40 45
Ser Ser Ser Cys Met Arg Arg Gln Arg Leu Arg Ser Ala Ile Ala Thr
50 55 60
Glu Arg Leu Ala Leu Ser Trp Pro Ile Met Cys Leu Phe Ser Ser Leu
65 70 75 80
Thr Ile Ser Arg Gly Val Ile Ser Asp Met Gly Asp Pro Tyr Ala Leu
85 90 95
Asp Gly Asn Ser Ser Met Val
100

<210> 6711
<211> 74
<212> PRT
<213> Enterobacter cloacae

<400> 6711

Gly Ser Pro Met Lys Lys Asp Ile His Pro Lys Tyr Glu Met Ile Thr
1 5 10 15
Ala Asn Cys Ser Cys Gly Asn Ser Ile Gln Ile Arg Ser Thr Val Gly
20 25 30
His Asp Leu Asn Leu Asp Val Cys Gly Lys Cys His Pro Phe Tyr Thr
35 40 45
Gly Lys Gln Arg Asp Val Ala Thr Gly Gly Arg Val Asp Arg Phe Asn
50 55 60
Lys Arg Phe Ser Ile Pro Gly Ala Lys
65 70

<210> 6712
<211> 255
<212> PRT
<213> Enterobacter cloacae

<400> 6712

Asn Tyr Thr Ala Leu Asp Ile Asn Ser Tyr Leu Pro Phe Gln Gln Arg
1 5 10 15
Trp Leu Ser Gly Cys Ile Tyr Phe Glu Gly Lys Arg Met Lys Leu Lys
20 25 30
Gln Leu Leu Phe Val Leu Pro Leu Leu Ser Cys Ala Ala Gln Ala Gly
35 40 45
Tyr Val Asp Tyr Arg His Glu Tyr Tyr Asp Asp Gly Arg Asn Tyr Asp
50 55 60
Arg Val Tyr Met Ser His Arg Phe Gly Thr Gly Phe Gly Val Ala Val
65 70 75 80
Glu Ala Val Ser Arg Ser Asp Glu Lys Gln Ser Asn Asp Ala Leu Asn
85 90 95
Asn Met Glu Ser Asn Ser Asn Glu Tyr Thr Ala Ser Tyr Gln Phe Thr

100 105 110
 Trp Gln Gly Phe Ile Trp Gln Pro Gly Val Ala Val Glu Met Gly Asp
 115 120 125
 Asp Met Ala Ile Tyr Lys Pro Tyr Leu Arg Val Gln Tyr Asn Ile Asn
 130 135 140
 Glu Ser Trp Trp Thr Ala Phe Arg Tyr Arg Thr Glu Tyr Thr Arg Arg
 145 150 155 160
 Asn Ala Asp Gly Lys Asp Asp Arg Leu Val Tyr Arg Pro Glu Met Trp
 165 170 175
 Leu Gly Tyr Asn Ile Asp Asn Trp Met Phe Glu Leu Asn Gly Ile Tyr
 180 185 190
 Lys Phe Ala Asp Asn Glu Asp Leu Tyr Asn Asn Lys Lys Glu Asp Tyr
 195 200 205
 Glu Tyr Asn Phe Arg Val Ala Tyr Asn Ile Asp Ser Trp Val Pro Phe
 210 215 220
 Val Glu Val Gly Asn Val Ser Ser Gly Tyr Asn Thr Ala Thr Thr Asp
 225 230 235 240
 Asp Arg Gln Thr Arg Leu Arg Val Gly Leu Gly Tyr Asn Phe
 245 250 255

<210> 6713

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 6713

Leu Ser Val Lys Met Val Arg Ser Ala Val Arg Cys Ser Gly Glu Glu
 1 5 10 15
 Lys Thr Leu Lys Ser Arg Lys Glu Val Ala Ser Ala Thr Met Lys Asp
 20 25 30
 Val Ala Glu Lys Ala Gln Val Ser Thr Ala Thr Val Ser Arg Ala Leu
 35 40 45
 Met Asn Pro Asp Lys Val Ser Gln Ala Thr Arg Asn Arg Val Glu Lys
 50 55 60
 Ala Ala Leu Glu Val Gly Tyr Phe Pro Gln Ala Met Gly Arg Asn Val
 65 70 75 80
 Lys Arg Asn Glu Ser Arg Thr Ile Leu Val Ile Val Pro Asp Ile Cys
 85 90 95
 Asp Pro Phe Phe Ser Glu Ile Ile Arg Gly Ile Glu Val Thr Ala Ala
 100 105 110
 Ala Gln Gly Tyr Leu Val Leu Ile Gly Asp Cys Ala His Gln Asn Gln
 115 120 125
 Gln Glu Lys Thr Phe Ile Asp Leu Ile Ile Thr Lys Gln Ile Asp Gly
 130 135 140
 Met Leu Leu Leu Gly Ser Arg Leu Pro Phe Asp Ala Ser Ile Glu Glu
 145 150 155 160
 Gln Arg Asn Leu Pro Pro Met Val Met Ala Asn Glu Phe Ala Pro Glu
 165 170 175
 Leu Glu Leu Pro Thr Val His Ile Asp Asn Leu Thr Ala Ala Phe Asn
 180 185 190
 Ala Val Asn Tyr Leu Gln Glu Leu Gly His Lys Arg Ile Gly Cys Ile
 195 200 205
 Ala Gly Pro Glu Glu Met Pro Leu Cys His Tyr Arg Leu Gln Gly Tyr
 210 215 220
 Val Gln Ala Leu Arg Arg Thr Gly Ala Ile Val Asp Pro His Tyr Ile
 225 230 235 240
 Ala Arg Gly Asp Phe Thr Phe Glu Ala Gly Gly Gln Ala Leu Glu Lys
 245 250 255
 Leu Leu Ala Leu Pro Glu Pro Pro Thr Ala Val Phe Cys His Ser Asp
 260 265 270
 Val Met Ala Leu Gly Ala Leu Ser Tyr Ala Lys Arg His Gly Leu Arg

```

      275              280              285
Val Pro Gln Asp Leu Ser Ile Ile Gly Phe Asp Asn Ile Ser Leu Ser
  290              295              300
Glu Phe Cys Asp Pro Pro Leu Ser Thr Val Ala Gln Pro Arg Tyr Asp
  305              310              315
Ile Gly Arg Glu Ala Met Leu Leu Leu Leu Asp Gln Leu His Gly Gln
      325              330              335
Thr Val Ser Ser Gly Ser Arg Leu Leu Asp Cys Glu Leu Ile Val Arg
      340              345              350
Gly Ser Thr Gln Ala Leu Thr
      355              360

```

<210> 6714
 <211> 153
 <212> PRT
 <213> *Enterobacter cloacae*

```

<400> 6714
Thr Lys Cys Arg Gly Thr Asn Lys Pro Arg Arg Ser Val Ser Lys His
  1              5              10              15
Cys Ser Ala Ser Val Arg Leu Ser Ser Lys Arg Asn Ser Ser Ser Gly
      20              25              30
Arg Arg Arg Ser Arg Tyr Ser Ser Arg Val His Asn Arg Ser Ser Arg
      35              40              45
Arg Val Pro Tyr Lys Leu Ser Leu Ser Ser Ser Asn Arg Arg Arg Ser
      50              55              60
Arg Arg Ser Lys Arg His Ser Arg Ile Arg Ile Cys Cys Arg Arg Leu
      65              70              75              80
Arg Ile Pro Leu Arg Asn Ser Gln Lys Arg Ser Arg Leu Arg Arg Ser
      85              90              95
Pro Lys Arg Pro Arg Cys Arg Ser Arg Arg Leu Arg Lys Lys Met Asn
      100              105              110
Ala Ala Gly Trp Phe Ser Ala Val Arg Leu Lys Ala Pro Asn Arg Gln
      115              120              125
Lys Arg Cys Val Leu Ser Trp His Leu Lys Asp Leu Thr His Ala Leu
      130              135              140
Pro Pro Ile Thr Ala Gly Ile Ala
      145              150

```

<210> 6715
 <211> 182
 <212> PRT
 <213> *Enterobacter cloacae*

```

<400> 6715
Pro Gly Gly Leu Leu Val Thr Thr Ile Val Ser Val Arg Arg Asn Gly
  1              5              10              15
Gln Val Val Ile Ala Gly Asp Gly Gln Ala Thr Leu Gly Asn Thr Val
      20              25              30
Met Lys Gly Asn Val Lys Lys Val Arg Arg Leu Tyr Asn Asp Lys Val
      35              40              45
Ile Ala Gly Phe Ala Gly Gly Thr Ala Asp Ala Phe Thr Leu Phe Glu
      50              55              60
Leu Phe Glu Arg Lys Leu Glu Met His Gln Gly His Leu Val Lys Ala
      65              70              75              80
Ala Val Glu Leu Ala Lys Asp Trp Arg Thr Asp Arg Met Leu Arg Lys
      85              90              95
Leu Glu Ala Leu Leu Ala Val Ala Asp Glu Asn Ala Ser Leu Ile Ile
      100              105              110
Thr Gly Asn Gly Asp Val Val Gln Pro Glu Asn Asp Leu Ile Ala Ile
      115              120              125

```

Gly Ser Gly Gly Pro Tyr Ala Gln Ala Ala Ala Arg Ala Leu Leu Glu
 130 135 140
 Asn Thr Asp Met Asn Ala Arg Asp Ile Ala Val Lys Ala Leu Asp Ile
 145 150 155 160
 Ala Gly Asp Ile Cys Ile Tyr Thr Asn His Asn His Thr Ile Glu Glu
 165 170 175
 Leu Pro Ser Lys Ala
 180

<210> 6716

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 6716

Gly Ser Pro Met Ser Glu Met Thr Pro Arg Glu Ile Val Ser Glu Leu
 1 5 10 15
 Asn Lys His Ile Ile Gly Gln Asp Asn Ala Lys Arg Ser Val Ala Ile
 20 25 30
 Ala Leu Arg Asn Arg Trp Arg Arg Met Gln Leu Asp Glu Glu Leu Arg
 35 40 45
 His Glu Val Thr Pro Lys Asn Ile Leu Met Ile Gly Pro Thr Gly Val
 50 55 60
 Gly Lys Thr Glu Ile Ala Arg Arg Leu Ala Lys Leu Ala Asn Ala Pro
 65 70 75 80
 Phe Ile Lys Val Glu Ala Thr Lys Phe Thr Glu Val Gly Tyr Val Gly
 85 90 95
 Lys Glu Val Asp Ser Ile Ile Arg Asp Leu Thr Asp Ser Ala Ile Lys
 100 105 110
 Met Val Arg Val Gln Ala Ile Glu Lys Asn Arg Tyr Arg Ala Glu Glu
 115 120 125
 Met Ala Glu Glu Arg Ile Leu Asp Val Leu Ile Pro Pro Ala Lys Asn
 130 135 140
 Asn Trp Gly Gln Ala Glu Gln Gln Ser Glu Pro Ser Ala Ala Arg Gln
 145 150 155 160
 Ala Phe Arg Lys Lys Leu Arg Glu Gly Glu Leu Asp Asp Lys Glu Ile
 165 170 175
 Glu Ile Asp Leu Ala Ala Ala Pro Met Gly Val Glu Ile Met Ala Pro
 180 185 190
 Pro Gly Met Glu Glu Met Thr Ser Gln Leu Gln Ser Met Phe Gln Asn
 195 200 205
 Leu Gly Gly Gln Lys Gln Lys Ala Arg Lys Leu Lys Ile Lys Asp Ala
 210 215 220
 Met Lys Leu Leu Ile Glu Glu Glu Ala Ala Lys Leu Val Asn Pro Glu
 225 230 235 240
 Glu Leu Lys Gln Asp Ala Ile Asp Ala Val Glu Gln His Gly Ile Val
 245 250 255
 Phe Ile Asp Glu Ile Asp Lys Ile Cys Lys Arg Gly Asn Ala Ser Gly
 260 265 270
 Pro Asp Val Ser Arg Glu Gly Val Gln Arg Asp Leu Leu Pro Leu Val
 275 280 285
 Glu Gly Cys Thr Val Ser Thr Lys His Gly Met Val Lys Thr Asp His
 290 295 300
 Ile Leu Phe Ile Ala Ser Gly Ala Phe Gln Ile Ala Ser Pro Ser Asp
 305 310 315 320
 Leu Ile Pro Glu Leu Gln Gly Arg Leu Pro Ile Arg Val Glu Leu Gln
 325 330 335
 Ala Leu Thr Thr Glu Asp Phe Glu Arg Ile Leu Thr Glu Pro Ile Leu
 340 345 350
 Thr Pro Arg Leu Glu Asn
 355

<210> 6717
 <211> 775
 <212> PRT
 <213> Enterobacter cloacae

<400> 6717

```

Val Leu Trp Arg Lys Ile His Gln Arg Arg Arg Ile Ile Gln Asn Leu
1      5      10      15
Thr Asn Val Cys Lys Leu Ile Arg Thr Pro Leu Ser Leu Met Cys Ile
      20      25      30
Leu Thr Arg His Phe Ser Ser Gln Glu Asp Ser Met Pro Val Ala His
      35      40      45
Val Ala Leu Pro Val Pro Leu Pro Arg Thr Phe Asp Tyr Leu Leu Pro
      50      55      60
Asp Ser Met Ser Ala Lys Ala Gly Cys Arg Val Thr Val Pro Phe Gly
65      70      75      80
Lys Gln Gln Arg Val Gly Ile Val Val Ser Val Ser Asp Lys Ser Glu
      85      90      95
Leu Pro Leu Asn Glu Leu Lys Ser Val Val Glu Val Leu Asp Ser Glu
      100     105     110
Pro Val Tyr Ser Thr Ser Thr Trp Arg Leu Leu Leu Trp Ala Ala Asp
      115     120     125
Tyr Tyr His His Pro Ile Gly Asp Val Leu Phe His Ala Leu Pro Ile
      130     135     140
Met Leu Arg Gln Gly Lys Ser Ala Ser His Ala Pro Met Trp Tyr Trp
145     150     155     160
Phe Ala Thr Glu Gln Gly Gln Ala Val Asp Ile Asn Ser Leu Lys Arg
      165     170     175
Ser Gln Lys Gln Gln Gln Ala Leu Ala Ala Leu Arg Gln Gly Lys Ile
      180     185     190
Trp Arg His Gln Val Asp Glu Leu Glu Val Ser Glu Thr Ala Leu Gln
      195     200     205
Ala Leu Arg Lys Lys Gly Leu Ser Glu Leu Ala Ser Glu Ala Pro Ala
      210     215     220
Leu His Asp Trp Arg Asp Gly Phe Ser Val Ser Gly Asp Arg Leu Arg
225     230     235     240
Leu Asn Thr Glu Gln Ala Thr Ala Val Gly Ala Ile His Ser Ala Ala
      245     250     255
Asp Arg Phe Ser Ala Trp Leu Leu Ala Gly Val Thr Gly Ser Gly Lys
      260     265     270
Thr Glu Val Tyr Leu Ser Val Leu Glu Asn Val Leu Ala Gln Gly Lys
      275     280     285
Gln Ala Leu Val Met Val Pro Glu Ile Gly Leu Thr Pro Gln Thr Ile
      290     295     300
Ala Arg Phe Arg Glu Arg Phe Asn Ala Pro Val Glu Val Leu His Ser
305     310     315     320
Gly Leu Asn Asp Ser Glu Arg Leu Ser Ala Trp Leu Lys Ala Lys Asn
      325     330     335
Gly Glu Ala Ala Ile Val Ile Gly Thr Arg Ser Ser Leu Phe Thr Pro
      340     345     350
Phe Lys Asn Leu Gly Val Ile Val Ile Asp Glu Glu His Asp Ser Ser
      355     360     365
Tyr Lys Gln Gln Glu Gly Trp Arg Tyr His Ala Arg Asp Leu Ala Val
      370     375     380
Tyr Arg Ala His Ser Glu Gln Ile Pro Ile Ile Leu Gly Ser Ala Thr
385     390     395     400
Pro Ala Leu Glu Thr Leu His Asn Val Arg Gln Arg Lys Tyr His Met
      405     410     415
Leu Arg Leu Thr Arg Arg Ala Gly Asn Ala Arg Pro Ala Ile Gln His
      420     425     430

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Val Leu Asp Leu Lys Gly Gln Gln Val Gln Ala Gly Leu Ala Pro Ala
 435 440 445
 Leu Ile Ser Arg Met Arg Gln His Leu Gln Ala Gly Asn Gln Val Ile
 450 455 460
 Leu Phe Leu Asn Arg Arg Gly Phe Ala Pro Ala Leu Leu Cys His Asp
 465 470 475 480
 Cys Gly Trp Ile Ala Glu Cys Pro Arg Cys Asp His Tyr Tyr Thr Phe
 485 490 495
 His Gln Ala Gln Arg His Leu Arg Cys His His Cys Asp Ser Gln Arg
 500 505 510
 Pro Val Pro Arg Gln Cys Pro Ser Cys Gly Ser Thr His Ile Val Pro
 515 520 525
 Val Gly Leu Gly Thr Glu Gln Leu Glu Gln Ala Leu Ala Pro Phe Phe
 530 535 540
 Pro Asp Val Pro Ile Ser Arg Ile Asp Arg Asp Thr Thr Ser Arg Lys
 545 550 555 560
 Gly Ala Leu Glu Gln Gln Leu Ala Glu Val His Arg Gly Gly Ala Arg
 565 570 575
 Ile Leu Ile Gly Thr Gln Met Leu Ala Lys Gly His His Phe Pro Asp
 580 585 590
 Val Thr Leu Val Ala Leu Leu Asp Val Asp Gly Ala Leu Phe Ser Ala
 595 600 605
 Asp Phe Arg Ser Ala Glu Arg Phe Ala Gln Leu Tyr Thr Gln Val Ala
 610 615 620
 Gly Arg Ala Gly Arg Ala Gly Lys Gln Gly Glu Val Val Leu Gln Thr
 625 630 635 640
 His His Pro Glu His Pro Leu Leu Gln Thr Leu Leu His Lys Gly Tyr
 645 650 655
 Asp Ala Phe Ala Asp Gln Ala Leu Ala Glu Arg Gln Thr Met Gln Leu
 660 665 670
 Pro Pro Trp Thr Ser His Val Ile Ile Arg Ala Glu Asp His Asn Asn
 675 680 685
 Gln Gln Ala Pro Leu Phe Leu Gln Gln Leu Arg Asn Leu Leu Gln Ala
 690 695 700
 Ser Pro Leu Val Asp Asn Gln Leu Trp Ile Leu Gly Pro Val Pro Ala
 705 710 715 720
 Leu Ala Pro Lys Arg Gly Gly Arg Phe Arg Trp Gln Leu Leu Leu Gln
 725 730 735
 His Pro Ser Arg Ile Arg Leu Gln Gln Ile Val Ser Gly Thr Leu Ala
 740 745 750
 Leu Ile Asn Thr Leu Pro Glu Ala Arg Lys Val Lys Trp Val Leu Asp
 755 760 765
 Val Asp Pro Ile Glu Gly
 770 775

<210> 6718

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 6718

Arg Tyr Leu Met Ala Glu Trp Ser Gly Glu Tyr Ile Ser Pro Tyr Ala
 1 5 10 15
 Glu His Gly Lys Lys Ser Glu Gln Val Lys Lys Ile Thr Val Ser Ile
 20 25 30
 Pro Leu Lys Val Leu Lys Ile Leu Thr Asp Glu Arg Thr Arg Arg Gln
 35 40 45
 Val Asn Asn Leu Arg His Ala Thr Asn Ser Glu Leu Leu Cys Glu Ala
 50 55 60
 Phe Leu His Ala Phe Thr Gly Gln Pro Leu Pro Asn Asp Asp Asp Leu
 65 70 75 80

Arg Lys Glu Arg Ser Asp Glu Ile Pro Glu Glu Ala Lys Val Ile Met
 85 90 95
 Arg Glu Leu Gly Ile Asp Pro Glu Thr Trp Glu Tyr
 100 105

<210> 6719

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6719

Arg Thr Asn Lys Tyr Ser Glu Thr Ile Val Ala Gln Arg Asp Tyr Val
 1 5 10 15
 Arg Arg Gly Gln Pro Ala Pro Ser Arg Arg Lys Lys Ser Ser Ser Lys
 20 25 30
 Ser Lys Gln Arg Ser Leu Ser Ala Val Ser Pro Ala Met Val Ala Ile
 35 40 45
 Ala Ala Ala Val Leu Val Ala Phe Ile Gly Gly Leu Tyr Phe Ile Thr
 50 55 60
 His His Lys Lys Glu Glu Ser Glu Ala Leu Gln Gly Asn Lys Val Val
 65 70 75 80
 Gly Asn Gly Leu Pro Pro Lys Pro Glu Glu Arg Trp Arg Tyr Ile Lys
 85 90 95
 Glu Leu Glu Ser Arg Gln Pro Gly Val Arg Ala Pro Thr Glu Pro Ser
 100 105 110
 Ala Gly Gly Glu Val Lys Asn Ala Asp Gln Leu Thr Asp Glu Gln Arg
 115 120 125
 Gln Leu Leu Ala Gln Met Gln Ala Asp Met Arg Gln Gln Pro Thr Gln
 130 135 140
 Leu Asn Glu Val Pro Trp Asn Glu Gln Thr Pro Ala Gln Arg Gln Gln
 145 150 155 160
 Thr Leu Gln Arg Gln Arg Gln Ala Gln Gln Gln Thr Gln Gln Gln Gln
 165 170 175
 Trp Thr Gln Thr Gln Pro Val Gln Gln Pro Arg Ser Gln Pro Gln Gln
 180 185 190
 Gln Thr Arg Thr Val Gln Thr Gln Pro Val Gln Gln Gln Pro Lys Ala
 195 200 205
 Gln Pro Gln Lys Gln Thr Ala Gln Pro Tyr Gln Asp Leu Leu Gln Thr
 210 215 220
 Pro Ala His Thr Thr Ala Gln Gln Pro Lys Thr Gln Gln Ala Ala Pro
 225 230 235 240
 Val Thr Lys Glu Thr Glu Val Pro Lys Gln Thr Ala Glu Lys Lys Asp
 245 250 255
 Glu Arg Arg Trp Met Val Gln Cys Gly Ser Phe Lys Gly Ala Glu Gln
 260 265 270
 Ala Glu Thr Val Arg Ala Gln Leu Ala Phe Glu Gly Phe Asp Ser Arg
 275 280 285
 Ile Thr Thr Asn Asn Gly Trp Asn Arg Val Val Ile Gly Pro Val Lys
 290 295 300
 Gly Lys Glu Asn Ala Asp Gly Thr Ile Ser Arg Leu Lys Val Ala Gly
 305 310 315 320
 His Thr Asn Cys Ile Arg Leu Ala Ser Gly Gly
 325 330

<210> 6720

<211> 714

<212> PRT

<213> Enterobacter cloacae

<400> 6720

Leu Asn Gly Asp Gln His Ala Gly Leu Leu Val Leu Pro Gly Met Asp

1	5	10	15
Pro Asn Ala Cys	His Leu Pro Asp	Leu Arg Val Arg	Ala Ile Arg Ser
	20	25	30
His His Gln Leu	Tyr Gly Gln Leu	Ile Val Val Val	Gln Arg Gln Glu
	35	40	45
Ile Pro Ala Leu	Met Thr Met Gln	Ala Phe Gln Arg	Val Arg His Ala
	50	55	60
Gln Arg His Leu	Arg Val Arg Leu	Gln Arg Leu Pro	Glu Cys Leu Leu
	65	70	75
Glu His Val Val	Phe His His Ile	Ala Gln Ala Arg	Gln Phe Gln Leu
	85	90	95
Gly Gly Ile Lys	Arg His Met Ser	Ile Phe Pro Leu	Pro Gly Phe Glu
	100	105	110
Thr Ala Val Arg	Met Arg Ala His	Arg Gln His Arg	Leu Pro Asp Ala
	115	120	125
Gln Pro Ala Lys	Gln Ile Asn Arg	Gly Arg Ala Asp	Gly Gly Asn Thr
	130	135	140
Tyr Val Arg Leu	Ala Gly Arg Ile	Glu Cys Arg Arg	Ser Arg Leu Phe
	145	150	155
Asn Asn Gly Tyr	Val Lys Ser Leu	Leu Arg Gln Pro	Gln Arg Gln Cys
	165	170	175
Ala Ala Asp His	Thr Ala Ala Asn	Asn Gly Asn Phe	Gly Val Gln Glu
	180	185	190
Cys His Gly His	Tyr Ser Leu Leu	Lys Asn Thr Leu	Ser Leu Pro Asp
	195	200	205
Phe Cys Gly Pro	Glu Val Asp Asn	Leu His Thr Gly	His Asn Arg Thr
	210	215	220
Lys Ala Leu Gln	Tyr Ala Ala Cys	Asn Pro Glu Leu	Ser Lys Ser Met
	225	230	235
Thr Lys Lys Leu	His Ile Lys Thr	Trp Gly Cys Gln	Met Asn Glu Tyr
	245	250	255
Asp Ser Ser Lys	Met Ala Asp Leu	Leu Asp Thr Thr	His Gly Tyr Gln
	260	265	270
Leu Thr Glu Asn	Ala Lys Glu Ala	Asp Val Leu Leu	Leu Asn Thr Cys
	275	280	285
Ser Ile Arg Glu	Lys Ala Gln Glu	Lys Val Phe His	Val Leu Gly Arg
	290	295	300
Trp Lys Leu Leu	Lys Arg Lys Asn	Pro Asp Leu Ile	Gly Val Gly
	305	310	315
Gly Cys Val Ala	Ser Gln Glu Gly	Lys Leu Ile Arg	Gln Arg Ala Pro
	325	330	335
Tyr Val Asp Ile	Val Phe Gly Pro	Gln Thr Leu His	Arg Leu Pro Glu
	340	345	350
Met Ile Asn Gln	Val Arg Gly Ser	Arg Ser Pro Val	Val Asp Val Ser
	355	360	365
Phe Pro Glu Ile	Glu Lys Phe Asp	Arg Leu Pro Glu	Pro Arg Ala Asp
	370	375	380
Gly Pro Thr Ala	Phe Val Ser Ile	Met Glu Gly Cys	Asn Lys Tyr Cys
	385	390	395
Thr Tyr Cys Val	Val Pro Tyr Thr	Arg Gly Glu Glu	Val Ser Arg Pro
	405	410	415
Ala Asp Asp Ile	Leu Phe Glu Ile	Ala Gln Leu Ala	Gln Gly Val
	420	425	430
Arg Glu Val Asn	Leu Leu Gly Gln	Asn Val Asn Ala	Trp Arg Gly Glu
	435	440	445
Asn Tyr Asp Gly	Thr Thr Gly Ser	Phe Ala Glu Leu	Leu Arg Leu Val
	450	455	460
Ala Ala Ile Asp	Gly Ile Asp Arg	Ile Arg Phe Thr	Thr Ser His Pro
	465	470	475
Met Glu Phe Thr	Asp Asp Ile Ile	Asp Val Tyr Arg	Asp Thr Pro Glu
	485	490	495

Leu Val Ser Phe Leu His Leu Pro Ile Gln Cys Gly Ser Asp Arg Val
 500 505 510
 Leu Asn Leu Met Gly Arg Pro His Thr Val Leu Glu Tyr Lys Ser Thr
 515 520 525
 Ile Arg Lys Leu Arg Glu Ala Arg Pro Asp Ile Gln Ile Ser Ser Asp
 530 535 540
 Phe Ile Val Gly Phe Pro Gly Glu Thr Ala Asp Asp Phe Glu Arg Thr
 545 550 555 560
 Met Lys Leu Ile Gly Glu Val Asn Phe Asp Val Ser Tyr Ser Phe Ile
 565 570 575
 Phe Ser Ala Arg Pro Gly Thr Pro Ala Ala Asp Met Val Asp Asp Val
 580 585 590
 Pro Glu Glu Glu Lys Lys Gln Arg Leu Tyr Ile Leu Gln Glu Arg Ile
 595 600 605
 Asn Gln Gln Ala Asn Ala Trp Ser Arg Arg Met Leu Gly Thr Val Gln
 610 615 620
 Arg Ile Leu Val Glu Gly Thr Ser Arg Lys Ser Ile Met Glu Leu Ser
 625 630 635 640
 Gly Arg Thr Glu Asn Asn Arg Val Val Asn Phe Glu Gly Thr Pro Asp
 645 650 655
 Met Ile Gly Lys Phe Val Asp Val Glu Ile Val Glu Val Leu Thr Asn
 660 665 670
 Ser Leu Arg Gly Lys Val Val Arg Thr Glu Asp Glu Met Gly Leu Arg
 675 680 685
 Ile Ala Gln Thr Pro Glu Ser Val Ile Ser Arg Thr Arg Lys Val Asn
 690 695 700
 Asp Ser Gly Val Gly Ile Tyr Gln Pro
 705 710

<210> 6721

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 6721

Thr Glu Met Ser Gln Val Ile Leu Asp Leu Gln Leu Ala Cys Glu Asp
 1 5 10 15
 Asn Ser Gly Met Pro Glu Glu Ala Gln Phe Gln Lys Trp Leu Asp Ala
 20 25 30
 Val Ile Pro Gln Phe Gln Glu Glu Ser Glu Val Thr Ile Arg Leu Val
 35 40 45
 Asp Glu Ala Glu Ser His Glu Leu Asn Leu Thr Tyr Arg Gly Lys Asp
 50 55 60
 Lys Pro Thr Asn Val Leu Ser Phe Pro Phe Glu Ala Pro Pro Gly Ile
 65 70 75 80
 Glu Met Pro Leu Leu Gly Asp Leu Ile Ile Cys Arg Gln Val Val Glu
 85 90 95
 Gln Glu Ala Lys Glu Gln Gln Lys Pro Leu Glu Ala His Trp Ala His
 100 105 110
 Met Val Val His Gly Ser Leu His Leu Leu Gly Tyr Asp His Ile Glu
 115 120 125
 Asp Asp Glu Ala Glu Glu Met Glu Ser Leu Glu Thr Glu Ile Met Leu
 130 135 140
 Ala Leu Gly Tyr Glu Asp Pro Tyr Ile Ala Glu Lys Glu
 145 150 155

<210> 6722

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 6722

```

Ser Val Thr Asp Tyr His Ala Ala Ala Gln Gly His Ser Ala Ala Val
1      5      10      15
Asn Val Glu Leu Thr Arg Glu Pro Leu Thr Asn Ala Met Ser Asp Asp
20     25     30
Asn Ser His Ser Ser Asp Thr Thr Thr Lys Lys Gly Phe Phe Ser
35     40     45
Leu Ile Leu Asn Gln Leu Phe His Gly Glu Pro Lys Asn Arg Asp Glu
50     55     60
Leu Leu Glu Leu Ile Arg Asp Ser Gly Gln Asn Asp Leu Ile Asp Glu
65     70     75     80
Asp Thr Arg Glu Met Leu Glu Gly Val Met Asp Ile Ala Asp Gln Arg
85     90     95
Val Arg Asp Ile Met Ile Pro Arg Ser Gln Met Ile Thr Leu Lys Arg
100    105    110
Asn Gln Thr Leu Asp Glu Cys Leu Asp Val Ile Ile Glu Ser Ala His
115    120    125
Ser Arg Phe Pro Val Ile Ser Glu Asp Lys Asp His Ile Glu Gly Ile
130    135    140
Leu Met Ala Lys Asp Leu Leu Pro Phe Met Arg Ser Asp Ala Glu Ala
145    150    155    160
Phe Ser Met Glu Lys Val Leu Arg Pro Ala Val Val Val Pro Glu Ser
165    170    175
Lys Arg Val Asp Arg Met Leu Lys Glu Phe Arg Ser Gln Arg Tyr His
180    185    190
Met Ala Ile Val Ile Asp Glu Phe Gly Gly Val Ser Gly Leu Val Thr
195    200    205
Ile Glu Asp Ile Leu Glu Leu Ile Val Gly Glu Ile Glu Asp Glu Tyr
210    215    220
Asp Glu Glu Glu Asp Ile Asp Phe Arg Gln Leu Ser Arg His Thr Trp
225    230    235    240
Thr Val Arg Ala Leu Ala Ser Ile Glu Asp Phe Asn Asp Thr Phe Gly
245    250    255
Thr Ser Phe Ser Asp Glu Glu Val Asp Thr Ile Gly Gly Leu Val Met
260    265    270
Gln Ala Phe Gly His Leu Pro Ala Arg Gly Glu Thr Val Asp Ile Asp
275    280    285
Gly Tyr Gln Phe Lys Val Ala Met Ala Asp Ser Arg Arg Ile Ile Gln
290    295    300
Val His Val Arg Met Pro Asp Asp Ser Pro Val Pro Lys Leu Glu Asp
305    310    315    320

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<210> 6723

<211> 409

<212> PRT

<213> *Enterobacter cloacae*

<400> 6723

```

Val Phe Thr Ser Arg Asp Pro Pro Gly Leu Pro Val Arg Gln Ala Leu
1      5      10      15
Tyr Phe Leu Ser Ser Pro Pro Ile Ser Thr Ala Thr Leu Ala Pro Leu
20     25     30
Phe Cys Gly Val Asn Asn Phe Gly Asn Asp Arg Phe Ile Thr Pro Cys
35     40     45
Gly His Arg Ser Val Asn Gln Leu Lys Arg Asn Ser Leu Asn Ile Asp
50     55     60
Thr Arg Glu Ile Ser Leu Glu Pro Ala Asp Asn Ala Arg Leu Leu Ser
65     70     75     80
Leu Cys Gly Pro Phe Asp Asp Asn Ile Lys Gln Leu Glu Arg Arg Leu

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      85          90          95
Gly Ile Glu Ile Asn Arg Arg Asp Asn His Phe Lys Leu Thr Gly Arg
      100          105          110
Pro Ile Cys Val Asn Ala Ala Ala Asp Ile Leu Arg Ser Leu Tyr Val
      115          120          125
Asp Thr Ala Pro Met Arg Gly Glu Ile Gln Asp Ile Glu Pro Glu Gln
      130          135          140
Ile His Leu Ala Ile Lys Glu Ala Arg Val Leu Glu Gln Ser Ala Glu
      145          150          155          160
Ser Val Pro Asp Tyr Gly Lys Ala Ile Asn Ile Lys Thr Lys Arg Gly
      165          170          175
Val Ile Lys Pro Arg Thr Pro Asn Gln Ala Gln Tyr Ile Ala Asn Ile
      180          185          190
Leu Asp His Asp Ile Thr Phe Gly Val Gly Pro Ala Gly Thr Gly Lys
      195          200          205
Thr Tyr Leu Ala Val Ala Ala Ala Val Asp Ala Leu Glu Arg Gln Glu
      210          215          220
Ile Arg Arg Ile Leu Leu Thr Arg Pro Ala Val Glu Ala Gly Glu Lys
      225          230          235          240
Leu Gly Phe Leu Pro Gly Asp Leu Ser Gln Lys Val Asp Pro Tyr Leu
      245          250          255
Arg Pro Leu Tyr Asp Ala Leu Phe Glu Met Leu Gly Phe Glu Lys Val
      260          265          270
Glu Lys Leu Ile Glu Arg Asn Val Ile Glu Val Ala Pro Leu Ala Tyr
      275          280          285
Met Arg Gly Arg Thr Leu Asn Asp Ala Phe Ile Ile Leu Asp Glu Ser
      290          295          300
Gln Asn Thr Thr Ile Glu Gln Met Lys Met Phe Leu Thr Arg Ile Gly
      305          310          315          320
Phe Asn Ser Lys Ala Val Ile Thr Gly Asp Val Thr Gln Ile Asp Leu
      325          330          335
Pro Arg Asn Thr Lys Ser Gly Leu Arg His Ala Ile Glu Val Leu Ala
      340          345          350
Glu Val Glu Glu Ile Ser Phe Asn Phe Phe His Ser Glu Asp Val Val
      355          360          365
Arg His Pro Val Val Ala Arg Ile Val Asn Ala Tyr Glu Ala Trp Glu
      370          375          380
Glu Ala Asp Gln Lys Arg Arg Ala Glu Leu Ala Ala Glu Arg Lys Arg
      385          390          395          400
Glu Ala Gln Glu His Glu Gln Lys
      405

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<210> 6724

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6724

```

Gln Ala Cys Ile Thr Leu His Ser His Cys Ala Arg Tyr Asn Asn Ile
1          5          10          15
Thr Met Gly Ile Tyr Ala Ser Leu Ala Leu Ile Arg Lys Glu Leu Gly
      20          25          30
Met Gln Leu Arg Lys Leu Ala Thr Ala Met Leu Val Met Gly Met Ser
      35          40          45
Ala Gly Val Val His Ala Glu Asp Ala Pro Ala Ala Gly Ser Thr Leu
      50          55          60
Asp Lys Ile Ala Lys Asn Gly Val Ile Val Val Gly His Arg Glu Ser
      65          70          75          80
Ser Val Pro Phe Ser Tyr Tyr Asp Asn Thr Gln Lys Val Val Gly Tyr
      85          90          95
Ser Gln Asp Tyr Ser Asn Ala Ile Val Glu Ala Val Lys Lys Lys Leu

```

Asn	Lys	100	Pro	Asp	Leu	Gln	Val	Lys	105	Leu	Ile	Pro	Ile	Thr	Ser	Gln	Asn
		115							120						125		
Arg	Ile	Pro	Leu	Leu	Gln	Asn	Gly	Thr	Phe	Asp	Phe	Glu	Cys	Gly	Ser		
		130					135					140					
Thr	Thr	Asn	Asn	Leu	Glu	Arg	Gln	Lys	Gln	Ala	Ala	Phe	Ser	Asp	Thr		
145					150					155					160		
Ile	Phe	Val	Val	Gly	Thr	Arg	Leu	Leu	Thr	Lys	Lys	Gly	Gly	Asp	Ile		
				165					170					175			
Lys	Asp	Phe	Ala	Asp	Leu	Lys	Gly	Lys	Ala	Val	Val	Val	Thr	Ser	Gly		
			180						185				190				
Thr	Thr	Ser	Glu	Val	Leu	Leu	His	Lys	Leu	Asn	Asp	Glu	Lys	Lys	Met		
		195						200				205					
Asp	Met	Arg	Ile	Ile	Ser	Ala	Lys	Asp	His	Gly	Asp	Ser	Phe	Arg	Thr		
		210				215					220						
Leu	Glu	Ser	Gly	Arg	Ala	Val	Ala	Phe	Met	Met	Asp	Asp	Ala	Leu	Leu		
225					230					235				240			
Ala	Gly	Glu	Arg	Ala	Lys	Ala	Lys	Lys	Pro	Asp	Asn	Trp	Glu	Ile	Val		
			245						250					255			

<210> 6725

<211> 513

<212> PRT

<213> Enterobacter cloacae

<400> 6725

Met	Ala	Phe	Ala	Pro	Leu	Val	Glu	Arg	Gln	Arg	Val	Arg	Leu	Leu	Leu
1				5				10					15		
Ala	Leu	Leu	Leu	Gly	Ala	Ser	Gly	Thr	Leu	Ala	Phe	Ser	Pro	Tyr	Asp
			20					25				30			
Ile	Trp	Pro	Ala	Ala	Ile	Leu	Ser	Leu	Met	Gly	Leu	Gln	Gly	Leu	Thr
		35				40					45				
Leu	Asn	Arg	Arg	Pro	Val	Gln	Ala	Ala	Ala	Ile	Gly	Tyr	Phe	Trp	Gly
	50				55					60					
Leu	Gly	Leu	Phe	Gly	Ser	Gly	Ile	Asn	Trp	Val	Tyr	Val	Ser	Ile	Ala
65					70				75					80	
Gln	Phe	Gly	Gly	Met	Pro	Gly	Pro	Val	Asn	Val	Phe	Leu	Val	Val	Leu
			85						90					95	
Leu	Ala	Ala	Tyr	Leu	Ser	Leu	Tyr	Thr	Gly	Leu	Phe	Ala	Gly	Ile	Leu
			100					105				110			
Ser	Arg	Leu	Trp	Pro	Lys	Thr	Thr	Trp	Leu	Arg	Val	Ala	Ile	Ala	Ala
		115					120					125			
Pro	Val	Val	Trp	Gln	Ile	Thr	Glu	Phe	Leu	Arg	Gly	Trp	Val	Leu	Thr
		130				135					140				
Gly	Phe	Pro	Trp	Leu	Gln	Phe	Gly	Tyr	Ser	Gln	Val	Asp	Gly	Pro	Leu
145				150					155					160	
Lys	Gly	Leu	Ala	Pro	Val	Met	Gly	Val	Glu	Ala	Ile	Asn	Phe	Leu	Leu
			165					170					175		
Met	Ile	Val	Ser	Gly	Leu	Leu	Val	Leu	Ala	Leu	Val	Thr	Arg	Asn	Trp
		180						185				190			
Lys	Pro	Leu	Val	Ala	Ala	Leu	Ile	Leu	Phe	Ala	Leu	Pro	Phe	Pro	Leu
		195				200						205			
Arg	Tyr	Ile	Gln	Trp	Phe	Thr	Leu	Glu	Pro	Ala	Arg	Ala	Thr	Gln	Val
		210				215					220				
Ser	Leu	Val	Gln	Gly	Asp	Ile	Pro	Gln	Ser	Leu	Lys	Trp	Asp	Glu	Asn
225				230						235				240	
Gln	Leu	Leu	Asn	Thr	Leu	Lys	Ile	Tyr	Ala	Asn	Ala	Thr	Glu	Lys	Val
			245					250					255		
Met	Gly	Lys	Ser	Gln	Leu	Ile	Ile	Trp	Pro	Glu	Ser	Ala	Ile	Pro	Asp
			260					265					270		
Leu	Glu	Ile	Asn	Gln	Gln	Pro	Phe	Leu	Lys	Met	Met	Asp	Asp	Leu	Leu

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<210> 6726
<211> 396
<212> PRT
<213> Enterobacter cloacae
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[illegible]

180 185 190
 Met Leu Ile Thr Val Gln Ser Glu Asn Ala Pro Gly Glu Ser Thr Trp
 195 200 205
 Gln His Phe Thr Pro Asn Gly Pro His Ala Phe Leu Pro Leu Phe Asp
 210 215 220
 Asn Trp Ala Ser Leu Val Trp Tyr Asp Lys Pro Ala Arg Ile Arg Gln
 225 230 235 240
 Leu Gln Gly Leu Ser Met Asp Gln Leu Gln Arg Glu Ile Arg Gln His
 245 250 255
 Phe Pro Ser Arg Leu Gly Asn Val Thr Pro Val Ala Ala Gly Ala Phe
 260 265 270
 Pro Leu Met Arg Arg His Ala Leu Gln Tyr Ala Arg Glu Gly Leu Val
 275 280 285
 Leu Val Gly Asp Ala Ala His Thr Ile His Pro Leu Ala Gly Gln Gly
 290 295 300
 Val Asn Leu Gly Tyr Arg Asp Val Asp Ala Leu Leu Asp Val Leu Gly
 305 310 315 320
 Asn Ala Arg Ala His Ala Glu Ala Trp Ala Ser His Gln Val Leu Lys
 325 330 335
 Arg Tyr Gln Thr Arg Arg Met Ala Asp Asn Phe Ile Met Gln Ser Gly
 340 345 350
 Met Asp Leu Phe Tyr Ala Gly Phe Ser Asn Asp Val Gly Pro Val Arg
 355 360 365
 Ile Val Arg Asn Ile Gly Leu Met Ala Ala Glu Arg Ala Gly Gly Leu
 370 375 380
 Lys Arg Gln Ala Leu Lys Tyr Ala Leu Gly Leu
 385 390 395

<210> 6727

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 6727

Gly Glu Gly Ile Arg Pro His Tyr Ser Glu Gln Gln Lys Gln Lys Ser
 1 5 10 15
 Pro Gln Ser Gly Leu Val Cys Leu Lys Trp Leu Gly Cys Arg Asp Ser
 20 25 30
 Asn Pro Gly Met Leu Val Ser Glu Thr Arg Ala Leu Pro Leu Gly Asp
 35 40 45
 Thr Pro Ile Ala Leu Asn Lys Leu Leu Asn Asp Phe Lys Val Ala Gly
 50 55 60
 Val Arg Gly Phe Glu Pro Arg Asn Ala Gly Ile Arg Ile Arg Cys Leu
 65 70 75 80
 Thr Ala Trp Arg Tyr Pro Asn Asn Val Gln Phe Thr Glu Ser Tyr Ser
 85 90 95
 Ile Thr

<210> 6728

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 6728

Pro Val Leu Gln Ser Ser Met Ala Gly Val Pro Gly Phe Glu Pro Gly
 1 5 10 15
 Asn Ala Gly Ile Lys Asn Arg Cys Leu Thr Ala Trp Arg Tyr Pro Asn
 20 25 30
 Thr Ala Glu Asn Arg Met Ile Glu Glu Ile Trp Leu Gly Tyr Leu Asp
 35 40 45

Ser Asn Gln Gly Met Pro Val Ser Lys Thr Gly Ala Leu Pro Leu Gly
 50 55 60
 Asp Thr Pro Ser Val Gln Arg Leu Pro Gly Asn Gly Ala Gly Gly Glu
 65 70 75 80
 Thr

<210> 6729

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 6729

Ser Lys Lys Tyr Gly Trp Gly Thr Trp Ile Arg Thr Arg Glu Cys Arg
 1 5 10 15
 Tyr Gln Lys Pro Val Pro Tyr Arg Leu Ala Ile Pro His Pro Cys Asn
 20 25 30
 Ala Tyr Leu Gly Met Val Arg Glu Ala Arg Leu Glu Leu Ala His Leu
 35 40 45
 Ala Ala Pro Glu Pro Lys Ser Gly Ala Ser Thr Asn Phe Ala Thr Pro
 50 55 60
 Ala Lys Lys Met Val Ala Thr Thr Gly Phe Glu Pro Val Thr Pro Ser
 65 70 75 80
 Leu

<210> 6730

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 6730

Val Met Cys Ser Asn Gln Leu Ser Tyr Val Ala Ser Thr Ala Ile Phe
 1 5 10 15
 Asp Gly Trp Gly Thr Trp Ile Arg Thr Arg Glu Cys Arg Tyr Gln Lys
 20 25 30
 Pro Val Pro Tyr Arg Leu Ala Ile Pro Gln Tyr Arg Gly Glu Pro His
 35 40 45
 Asp Arg Arg Asn Met Ala Gly Val Pro Gly Phe Glu Pro Gly Asn Ala
 50 55 60
 Gly Ile Lys Asn Arg Cys Leu Thr Ala Trp Arg Tyr Pro Ile Arg Ala
 65 70 75 80
 Thr Leu Thr Trp Glu Trp Cys Gly Arg Arg Asp Leu Asn Ser His Thr
 85 90 95
 Leu Arg Arg Gln Asn Leu Asn Leu Val Arg Leu Pro Ile Ser Pro Leu
 100 105 110
 Pro Gln Lys Arg Trp Trp Leu Arg Arg Asp Ser Asn Leu
 115 120 125

<210> 6731

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 6731

Phe Phe Cys Arg Lys Tyr Trp Val Lys Asn Met Gln Ile Gly Tyr Val
 1 5 10 15
 Arg Val Ser Thr Asn Asp Gln Asn Thr Asp Leu Gln Arg Gln Ala Leu
 20 25 30
 Glu Arg Ala Gly Cys Glu Gln Val Phe Glu Glu Lys Met Ser Gly Thr
 35 40 45

Val Ala Asn Arg Pro Ala Leu Lys Lys Leu Leu Gln Thr Leu Asn Glu
 50 55 60
 Gly Asp Thr Leu Val Val Trp Lys Leu Asp Arg Leu Gly Arg Ser Met
 65 70 75 80
 Arg Asn Leu Val Leu Leu Val Asp Glu Leu Arg Gln Arg Gly Ile His
 85 90 95
 Phe Lys Ser Leu Thr Asp Ser Ile Asp Thr Ser Ser Pro Met Gly Arg
 100 105 110
 Phe Ile Phe His Ile Met Ser Ala Leu Ala Glu Met Glu Arg Glu Leu
 115 120 125
 Ile Val Glu Arg Thr Arg Ala Gly Leu Ala Ala Arg Glu Lys Gly
 130 135 140
 Arg Ile Gly Gly Arg Arg Pro Lys Leu Thr Pro Glu Gln Trp Ala Gln
 145 150 155 160
 Ala Gly Arg Leu Ile Ala Asn Gly Val Asp Arg Lys Gln Val Ala Ile
 165 170 175
 Ile Tyr Asp Val Ala Val Cys Thr Leu Tyr Lys Lys Phe Pro Ala Ser
 180 185 190
 Lys Pro Ala
 195

<210> 6732

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6732

Thr Val Ala Thr Thr Lys Val Tyr Cys Ala Leu Thr Glu Thr Lys Leu
 1 5 10 15
 Leu Tyr Ile Lys Thr Val Leu Glu Val Cys Val Met Glu Phe Ile Arg
 20 25 30
 Pro Thr Glu Leu Arg Glu Ile Ile Ala Ile Pro Leu Tyr Ser Asp Leu
 35 40 45
 Val Gln Cys Gly Phe Pro Ser Pro Ala Ala Asp Tyr Val Glu Gln Arg
 50 55 60
 Ile Asp Leu Asn Glu Leu Leu Val Ser His Pro Ser Ser Thr Tyr Phe
 65 70 75 80
 Val Lys Ala Ala Gly Asp Ser Met Ile Glu Ala Gly Ile Ser Asp Gly
 85 90 95
 Asp Leu Leu Val Val Asp Ser Ser Arg Thr Val Glu His Gly Asp Ile
 100 105 110
 Val Ile Ala Ala Val Asp Gly Glu Phe Thr Val Lys Arg Leu Gln Leu
 115 120 125
 Arg Pro Thr Val Gln Leu Asn Pro Met Asn Gly Ala Tyr Ser Pro Ile
 130 135 140
 Val Val Gly Ser Glu Asp Thr Leu Asp Val Phe Gly Val Val Thr Phe
 145 150 155 160
 Ile Val Lys Ser Ala Ser
 165

<210> 6733

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 6733

Gly Ser Phe Gln Pro Arg Gly Glu Asp Trp Ser Met Asp Phe Val Met
 1 5 10 15
 Asp Ala Leu Ser Thr Gly Arg Arg Ile Lys Cys Leu Thr Cys Val Asp
 20 25 30
 Asp Phe Thr Lys Glu Cys Leu Thr Val Thr Val Ala Phe Gly Ile Ser

Gly Arg Phe Phe Ile Gly Val Tyr Met Ala Lys Pro Asp Trp Gly Glu
 1 5 10 15
 Leu Gln Gln Arg Phe Leu Ser Glu His Ala Ala Thr Gly Val Ser Pro
 20 25 30
 Lys Glu Trp Cys Glu Ala Gln Gly Leu Asn Tyr Ala Thr Ala Arg Arg
 35 40 45
 Tyr Ile Lys Lys Pro Ser Ala Gln Ser Val Gln Lys Ser Ala Gln Lys
 50 55 60
 Lys Val Arg Thr Ala Gln Lys Glu Gln Ser Ala Glu Leu Val Asp
 65 70 75 80
 Asp Asp Gly Leu Thr Ala Gln Gln Arg Arg Phe Val Ala Glu Tyr Leu
 85 90 95
 Lys Asp Gly Asn Ala Thr Gln Ala Ala Ile Arg Ala Gly Tyr Ser Lys
 100 105 110
 Lys Ser Ala Glu Gln Ile Gly Tyr Gln Leu Leu Gln Lys Thr Ser Val
 115 120 125
 Ala Gln Ala Ile Ala Gln Gln Gln Lys Ala Ser Ile Ala Arg Thr Leu
 130 135 140
 Gly Ser Ala Asp Glu Val Leu Ala Gln Met Trp Gln Leu Ala Thr Phe
 145 150 155 160
 Asp Ala Asn Gln Leu Ser Gln Tyr Arg Arg Gly Ala Cys Arg Tyr Cys
 165 170 175
 Trp Gly Phe Gly His His Tyr Gln Trp Arg Asp Ala Val Glu Phe Glu
 180 185 190
 Glu Lys Arg Leu Glu Ala Val Glu Arg Asp Arg Arg Glu Pro Glu Asp
 195 200 205
 Ser Gly Gly Tyr Gly Tyr Asp His Asn Arg Glu Pro Asn Pro Glu Cys
 210 215 220
 Pro Arg Cys Asn Gly Asp Gly Ile Gly Gln Pro Tyr Phe Pro Asp Thr
 225 230 235 240
 Arg Lys Leu Pro Ala Val Ser Arg Leu Ala Tyr Ser Gly Val Lys Val
 245 250 255
 Gly Lys Asn Gly Val Glu Ile Thr Ala Ile Ser Arg Glu Arg Met Phe
 260 265 270
 Glu Ala Val Met Lys Arg Leu Gly Leu Ala Asp Ser Glu Phe Ala Gln
 275 280 285
 Arg Leu Gln Gln Ile Glu Ile Asp Arg Arg Leu Leu Glu Val Glu Lys
 290 295 300
 Leu Arg Lys Glu Leu Ala Gly Asp Gly Asp Asp Asp Glu Pro Thr Pro
 305 310 315 320
 Val Gln Ile Asn Ile Asn Val Val Asp Ala Arg Ala Glu Asp Gly Asp
 325 330 335
 Gln Pro Asp Thr
 340

<210> 6736

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6736

Leu Leu Ser Leu Leu Asn Arg Pro Ala Asp Met Phe Ala Leu Cys Asp
 1 5 10 15
 Val Asn Ser Phe Tyr Ala Ser Cys Glu Thr Val Phe Arg Pro Asp Leu
 20 25 30
 Arg Gly Arg Pro Val Val Val Leu Ser Asn Asn Asp Gly Cys Val Ile
 35 40 45
 Ala Arg Ser Ala Glu Ala Lys Ala Ala Gly Ile Ala Met Gly Glu Pro
 50 55 60
 Phe Phe Lys Gln Lys Glu Leu Phe Arg Arg Ala Gly Val Val Cys Phe
 65 70 75 80

Ser Ser Asn Tyr Glu Leu Tyr Ala Asp Met Ser Asn Arg Val Met Thr
 85 90 95
 Thr Leu Glu Glu Met Ser Pro Arg Val Glu Ile Tyr Ser Ile Asp Glu
 100 105 110
 Ala Phe Cys Asp Leu Thr Gly Val Arg Ser Cys Arg Asp Leu Thr Asp
 115 120 125
 Phe Gly Lys Glu Ile Arg Ala Thr Val Leu Lys Arg Thr His Leu Thr
 130 135 140
 Val Gly Val Gly Ile Ala Gln Thr Lys Thr Leu Ala Lys Leu Ala Asn
 145 150 155 160
 His Ala Ala Lys Lys Trp Gln Arg Gln Thr Gly Gly Val Val Asp Leu
 165 170 175
 Ser Asn Ile Asp Arg Gln Arg Arg Leu Leu Ala Ile Val Pro Val Glu
 180 185 190
 Asp Val Trp Gly Val Gly Arg Arg Ile Ile Lys Lys Leu Asn Ala Met
 195 200 205
 Gly Ile Lys Thr Ala Leu Asp Leu Ser Glu Gln Ser Thr Trp Ile Ile
 210 215 220
 Arg Lys His Phe Asn Val Val Leu Glu Gly Thr Val Arg Glu Leu Arg
 225 230 235 240
 Gly Glu Pro Cys Leu Glu Leu Glu Glu Phe Ala Pro Ser Lys Gln Glu
 245 250 255
 Ile Val Cys Ser Arg Ser Phe Gly Glu Arg Val Thr Glu Tyr Glu Gln
 260 265 270
 Met Arg Gln Ala Ile Cys Ser Tyr Ala Ala Arg Gly Ala Glu Lys Leu
 275 280 285
 Arg Gly Glu His Gln Tyr Cys Arg Phe Ile Ser Ala Phe Val Lys Thr
 290 295 300
 Ser Pro Phe Ala Leu Asn Glu Pro Tyr Tyr Gly Asn Ser Ala Ser Met
 305 310 315 320
 Lys Leu Leu Thr Pro Thr Gln Asp Thr Arg Asp Ile Phe Asn Ala Ala
 325 330 335
 Val Lys Cys Leu Asp Lys Ile Trp Lys Asp Gly His Arg Tyr Gln Lys
 340 345 350
 Ala Gly Ile Met Leu Gly Asp Phe Phe Ser Gln Gly Val Ala Gln Leu
 355 360 365
 Asn Leu Phe Asp Glu Asn Ala Pro Arg Ala Gly Ser Glu Arg Leu Met
 370 375 380
 Glu Val Leu Asp His Leu Asn Ala Lys Asp Gly Lys Gly Thr Leu Tyr
 385 390 395 400
 Phe Ala Gly Gln Gly Ile Gln Gln Gln Trp Gln Met Lys Arg Ser Met
 405 410 415
 Leu Ser Pro Arg Tyr Thr Thr Arg Phe Ser Asp Leu Leu His Val Arg
 420 425 430

<210> 6737

<211> 120

<212> PRT

<213> *Enterobacter cloacae*

<400> 6737

Thr Ser Leu Ala Ala Trp Pro Gly Asp Met Leu Arg Arg Leu Met Val
 1 5 10 15
 Arg Met Glu Lys Gly Arg Arg Gln Glu Thr Ala Leu Leu His Ser Pro
 20 25 30
 Ser Arg Arg Asp Ala Glu Gly Phe Leu Ile Val Thr Ser Ala Ala Asp
 35 40 45
 Lys Gly Leu Val Asp Ile His Asp Arg Arg Pro Leu Val Leu Ser Pro
 50 55 60

Glu Val Ala Leu Glu Trp Met Arg Gln Asp Val Gly Gly Lys Lys Ala
 65 70 80
 Glu Glu Leu Ala Ser Asp Gly Val Val Pro Thr Glu Lys Phe Ile Trp
 85 90 95
 His Ala Ile Ser Arg Ala Val Gly Asn Thr Ala Asn Asn His Phe Ser
 100 105 110
 Leu Ile Glu Ser Ile Asn Leu
 115 120

<210> 6738

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 6738

Asn Val Gly Leu Gly Ser Ser Ala Thr Lys Asp Val Gly Thr Asp Ser
 1 5 10 15
 Gly Asn Val Met Gln Val Gly Ala Phe Gly Val Gly Thr Tyr Gln Ala
 20 25 30
 Pro Arg Pro Asn Asp Ala Asn Ser Ser Phe Ile Ser Asp Ala Asp Gly
 35 40 45
 Asn Thr Ser Trp Ala Pro Ala Asn Gly Cys Gly Tyr Gln Ser Ser Tyr
 50 55 60
 Asn Thr Gln Arg Ile Ala Gln Met Trp Val Thr Thr Gly Gly Ala Gly
 65 70 75 80
 Tyr Cys Arg Phe Leu Leu Asn Thr Asn Pro Gln Thr Ala Lys Thr Asp
 85 90 95
 Ala Pro Trp Thr Val Phe Gln Ser Ala Gly Thr Ser Asp Ile Asn Phe
 100 105 110
 Lys Lys Val Thr Gly Asp Leu Asp Leu Asn Glu Ser Leu Ser Asn Ile
 115 120 125
 Ala Ala Met Asp Phe Lys Thr Phe Tyr Tyr Leu Ala Asp Glu Asp Lys
 130 135 140
 Val Ile Arg Arg Gly Val Ile Ala Gln Glu Leu Glu Lys Ile Asp Pro
 145 150 155 160
 Gln Tyr Val His Ser Ala Glu Glu Ser Gly Lys Met Thr Leu Asp Leu
 165 170 175
 Asn Pro Leu Val Leu Asp Ala Leu Ala Ala Ile Lys Ala Leu Thr Ile
 180 185 190
 Arg Val Arg Glu Leu Glu Asn Glu Ala Gln Ala Val Val Pro Val Ser
 195 200 205
 Ser Ala Asp
 210

<210> 6739

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 6739

Leu Glu Val Ser Met Cys Gly Arg Phe Ala Gln Ala Gln Thr Arg Glu
 1 5 10 15
 Glu Tyr Leu Val Tyr Leu Ala Asp Glu Ala Asp Arg Asp Ile Ala Tyr
 20 25 30
 Asp Pro Glu Pro Ile Gly Arg Tyr Asn Val Ala Pro Gly Thr Lys Val
 35 40 45
 Leu Leu Leu Ser Glu Arg Asp Glu Gln Leu His Leu Asp Pro Val Leu
 50 55 60
 Trp Ser Tyr Ala Pro Gly Trp Trp Asp Lys Pro Pro Leu Ile Asn Ala
 65 70 75 80
 Arg Ile Glu Thr Thr Ala Thr Ser Arg Met Phe Lys Pro Leu Trp Gln

85 90 95
 His Gly Arg Ala Ile Cys Phe Ala Asp
 100 105

<210> 6740

<211> 382

<212> PRT

<213> Enterobacter cloacae

<400> 6740

Ser Lys Arg Ile Asp Val Lys Val Leu Thr Val Phe Gly Thr Arg Pro
 1 5 10 15
 Glu Ala Ile Lys Met Ala Pro Leu Val His Ala Leu Ala Arg Asp Pro
 20 25 30
 Asp Ile Glu Ala Lys Val Cys Val Thr Ala Gln His Arg Glu Met Leu
 35 40 45
 Asp Gln Val Leu Thr Leu Phe Ser Ile Val Pro Asp Tyr Asp Leu Asn
 50 55 60
 Ile Met Lys Pro Gly Gln Gly Leu Thr Glu Ile Thr Cys Arg Ile Leu
 65 70 75 80
 Gln Glu Leu Lys Pro Ile Leu Glu Ser Phe Lys Pro Asp Val Val Leu
 85 90 95
 Val His Gly Asp Thr Thr Thr Thr Val Ala Thr Ser Leu Ala Ala Phe
 100 105 110
 Tyr Gln Arg Ile Pro Val Gly His Ile Glu Ala Gly Leu Arg Thr Gly
 115 120 125
 Asn Leu Tyr Ser Pro Trp Pro Glu Glu Ala Asn Arg Thr Leu Thr Gly
 130 135 140
 His Leu Ala Met Tyr His Phe Ala Pro Thr Glu Asn Ser Arg Gln Asn
 145 150 155 160
 Leu Leu Arg Glu Asn Ile Ser Asp Ser Lys Ile Phe Val Thr Gly Asn
 165 170 175
 Thr Val Ile Asp Ala Leu Ile Trp Val Arg Asp Arg Val Leu Ala Asn
 180 185 190
 Ser Glu Leu Gln Ala Glu Leu Ala Ala Arg Tyr Pro Phe Leu Asn Asn
 195 200 205
 Gly Lys Lys Thr Ile Leu Val Thr Gly His Arg Arg Glu Ser Phe Gly
 210 215 220
 Arg Gly Phe Glu Gln Ile Cys His Ala Leu Ala Glu Ile Ala Ala Gln
 225 230 235 240
 Asn Glu Asp Val Gln Ile Val Tyr Pro Val His Leu Asn Pro Asn Val
 245 250 255
 Ser Glu Pro Val Asn Arg Ile Leu Gly His Val Glu Asn Val Leu Leu
 260 265 270
 Ile Glu Pro Gln Asp Tyr Leu Pro Phe Val Trp Leu Met Asn His Ala
 275 280 285
 Trp Leu Ile Leu Thr Asp Ser Gly Gly Ile Gln Glu Glu Ala Pro Ser
 290 295 300
 Leu Gly Lys Pro Val Leu Val Met Arg Glu Thr Thr Glu Arg Pro Glu
 305 310 315 320
 Ala Val Thr Ala Gly Thr Val Arg Leu Val Gly Thr Asp Pro Arg Arg
 325 330 335
 Ile Val Glu Glu Val Thr Arg Leu Leu His Asp Asp Glu Glu Tyr Gln
 340 345 350
 Ala Met Ser Arg Ala His Asn Pro Tyr Gly Asp Gly Gln Ala Cys Gly
 355 360 365
 Arg Ile Leu His Ala Leu Lys His Asn Arg Val Thr Leu
 370 375 380

<210> 6741

<211> 422

<212> PRT

<213> *Enterobacter cloacae*

<400> 6741

Val Ile Ser Pro Asp Met Ser Leu Ala Lys Ala Ser Val Trp Thr Ala
 1 5 10 15
 Ala Ser Thr Leu Val Lys Ile Gly Ala Gly Leu Leu Val Val Lys Leu
 20 25 30
 Leu Ala Val Ser Phe Gly Pro Ser Gly Val Gly Leu Ala Gly Asn Phe
 35 40 45
 Arg Gln Leu Val Thr Val Leu Gly Val Leu Ala Gly Ala Gly Ile Phe
 50 55 60
 Asn Gly Val Thr Lys Tyr Val Ala Gln His His Asp Asp Ala Glu Lys
 65 70 75 80
 Leu Arg Thr Val Val Gly Thr Ser Ser Ala Met Val Leu Gly Phe Ser
 85 90 95
 Thr Leu Leu Ala Val Val Phe Leu Leu Ala Ala Ala Pro Ile Ser Gln
 100 105 110
 Gly Leu Phe Gly His Thr His Tyr Gln Gly Leu Val Arg Leu Val Ala
 115 120 125
 Leu Val Gln Met Gly Ile Ala Trp Ala Asn Leu Leu Leu Ala Leu Met
 130 135 140
 Lys Gly Phe Arg Asp Ala Ala Gly Asn Ala Leu Ala Leu Ile Leu Gly
 145 150 155 160
 Ser Ile Ile Gly Val Ile Ala Tyr Tyr Phe Cys Tyr Arg Leu Gly Gly
 165 170 175
 Tyr Glu Gly Ala Leu Leu Gly Leu Ala Leu Val Pro Ala Leu Val Val
 180 185 190
 Ile Pro Ala Ala Phe Met Leu Met Arg Gly Asn Val Pro Leu Ser
 195 200 205
 Tyr Leu Lys Pro Gln Trp Asp Lys Ile Leu Ala Gly Gln Leu Gly Lys
 210 215 220
 Phe Thr Leu Met Ala Leu Ile Thr Ser Val Thr Leu Pro Val Ala Tyr
 225 230 235 240
 Val Met Met Arg Asn Leu Leu Ala Ala His Tyr Ser Trp Asp Glu Val
 245 250 255
 Gly Ile Trp Gln Gly Val Ser Ser Ile Ser Asp Ala Tyr Leu Gln Phe
 260 265 270
 Ile Thr Ala Ser Phe Ser Val Tyr Leu Leu Pro Thr Leu Ser Arg Leu
 275 280 285
 Thr Ser Arg Gln Asp Ile Thr Arg Glu Ile Phe Arg Ser Leu Arg Phe
 290 295 300
 Val Leu Pro Ala Val Ala Ile Ala Ser Phe Thr Val Trp Leu Leu Arg
 305 310 315 320
 Asp Phe Ala Ile Trp Leu Leu Phe Ser Ala Lys Phe Thr Ala Met Arg
 325 330 335
 Asp Leu Phe Ala Trp Gln Leu Val Gly Asp Val Leu Lys Val Gly Ala
 340 345 350
 Tyr Val Phe Gly Tyr Leu Val Ile Ala Lys Ala Ser Leu Arg Leu Tyr
 355 360 365
 Ile Leu Ala Glu Ile Gly Gln Phe Ala Leu Leu Thr Ala Phe Ser His
 370 375 380
 Trp Leu Ile Pro Thr His Gly Ala Leu Gly Ala Ala Gln Ala Tyr Met
 385 390 395 400
 Ala Thr Tyr Ile Val Tyr Phe Ala Ala Cys Cys Gly Val Phe Leu Leu
 405 410 415
 Trp Arg Lys Arg Ala
 420

<210> 6742

<211> 327

<212> PRT

<213> *Enterobacter cloacae*

<400> 6742

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Phe Arg Val Leu Trp Gln Gly Arg Leu Trp Ile Val Gly Ile Ala Leu
1      5      10      15
Gly Phe Ala Leu Leu Ala Leu Ala Tyr Thr Phe Phe Ala Lys Gln Glu
20      25      30
Trp Ser Ala Thr Ala Ile Thr Asp Arg Pro Thr Val Asn Met Leu Gly
35      40      45
Gly Tyr Tyr Ser Gln Gln Gln Phe Leu Arg Asn Leu Asp Ile Lys Ala
50      55      60
Asn Leu Ala Thr Pro Asp Gln Ala Ser Val Met Asp Glu Ser Tyr Lys
65      70      75      80
Glu Phe Val Met Gln Leu Ala Ser Trp Asp Thr Arg Arg Asp Phe Trp
85      90      95
Ser Gln Thr Asp Tyr Tyr Lys Gln Arg Met Val Gly Asn Ser Lys Ala
100     105     110
Asp Ala Ala Leu Leu Asp Asp Leu Ile Asn Asn Ile Gln Phe Met Pro
115     120     125
Gly Asp Val Leu Arg Asn Val Ser Asp Ser Val Lys Leu Ile Ala Glu
130     135     140
Thr Ala Pro Asp Ala Asn Asn Leu Leu Arg Gln Tyr Val Ala Phe Ala
145     150     155     160
Ser Gln Arg Ala Ala Ser His Leu Asn Asp Glu Leu Lys Gly Ala Trp
165     170     175
Ala Ala Arg Thr Ile Gln Met Lys Ala Gln Val Lys Arg Gln Glu Glu
180     185     190
Val Ala Lys Ala Ile Phe Ala Arg Arg Val His Asn Leu Glu Gln Ala
195     200     205
Leu Lys Ile Ala Glu Gln His Asn Ile Ser Arg Ser Glu Thr Asp Val
210     215     220
Pro Ala Asp Glu Leu Pro Asp Ser Glu Met Phe Leu Leu Gly Arg Pro
225     230     235     240
Met Leu Gln Ala Arg Leu Glu Asn Ile Gln Ala Val Gly Pro Asp Phe
245     250     255
Asp Leu Asp Tyr Asp Gln Asn Arg Ala Met Leu Asn Thr Leu Asn Val
260     265     270
Gly Pro Thr Leu Asp Pro Arg Phe Gln Thr Tyr Arg Tyr Leu Arg Thr
275     280     285
Pro Glu Glu Pro Val Lys Arg Asp Ser Pro Arg Arg Ala Phe Leu Met
290     295     300
Ile Met Trp Gly Ile Val Gly Ala Leu Thr Gly Ala Gly Val Ala Leu
305     310     315     320
Leu Arg Arg Arg Thr Asn
325

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<210> 6743

<211> 232

<212> PRT

<213> *Enterobacter cloacae*

<400> 6743

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Tyr Gln Arg Arg Val Ala Leu Ser Ile Leu Asn Gly Val Leu Glu Ser
1      5      10      15
Leu Glu Trp Glu Ser Ala Phe Phe Ala Arg Pro Ser Ala Ile Val Arg
20      25      30
Leu Arg Asp Asn Ala Pro Ala Leu Gln Asp Ala Asp Phe Ser Ala Trp
35      40      45
Gln Arg Val Gln Ala Lys Ile Pro Ala Asp Arg Ala Asp Leu Leu Asp
50      55      60

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Ala Leu Gln Gln His Gly Phe Arg Leu Val Glu Gly Glu Val Asp Leu
 65 70 75 80
 Ser Val Thr Val Ala Arg Tyr Ala Ser Pro Gly Ala Glu Ile Ala Thr
 85 90 95
 Glu Gln Asp Ile Pro Thr Leu Arg Lys Met Ala Ala Leu Ala Phe Ala
 100 105 110
 Gln Ser Arg Phe Arg Ala Pro Trp Tyr Ala Pro Asp Asp Ser Gly Arg
 115 120 125
 Phe Tyr Ala Gln Trp Ile Glu Asn Ala Val Lys Gly Thr Phe Asp His
 130 135 140
 Val Cys Leu Val Phe Arg Thr Asp Gly Gly Gln Ile Gln Gly Phe Val
 145 150 155 160
 Ser Leu Arg Arg Leu Thr Glu His Glu Ala Arg Ile Gly Leu Leu Ala
 165 170 175
 Gly Arg Gly Met Gly Glu Lys Leu Met Gln Ala Ala Leu His Trp Ala
 180 185 190
 Glu Gln Gln Gln Val Ser Thr Leu Arg Val Ala Thr Gln Met Gly Asn
 195 200 205
 Thr Ala Ala Leu Lys Arg Tyr Ile Ala Ser Gly Ala Ser Ile Asp Ala
 210 215 220
 Thr Ala Tyr Trp Leu Tyr Arg
 225 230

<210> 6744

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 6744

His Arg Leu Phe Gln Pro Glu Leu Pro His Ala Val Ala Pro Arg Ala
 1 5 10 15
 Ala Tyr Cys Phe Arg Arg Gln Arg Met Ser Gln Leu Gln Phe Ser Gly
 20 25 30
 Leu Leu Val Val Trp Leu Leu Ser Thr Leu Phe Ile Ala Thr Leu Thr
 35 40 45
 Trp Phe Glu Phe Arg Arg Val Ser Phe Asn Phe Asn Val Phe Phe Ser
 50 55 60
 Leu Leu Phe Leu Leu Thr Phe Phe Phe Gly Phe Pro Leu Thr Ser Ile
 65 70 75 80
 Leu Val Phe Arg Phe Asp Val Gly Val Ala Pro Pro Glu Ile Leu Leu
 85 90 95
 Gln Ala Leu Leu Ser Ala Thr Cys Phe Tyr Ala Val Tyr Tyr Val Thr
 100 105 110
 Tyr Lys Thr Arg Leu Arg Ala Ala Lys Asp Thr Ala Pro Arg Arg Pro
 115 120 125
 Leu Phe Thr Met Asn Arg Val Glu Thr His Leu Thr Trp Val Met Leu
 130 135 140
 Met Thr Ile Ala Leu Val Ser Val Ala Ile Phe Phe Met His Asn Gly
 145 150 155 160
 Phe Leu Leu Phe Lys Leu Gln Ser Tyr Ser Gln Ile Phe Ser Ala Glu
 165 170 175
 Val Ser Gly Val Ala Leu Lys Arg Phe Phe Tyr Phe Phe Ile Pro Ala
 180 185 190
 Met Leu Val Val Phe Phe Leu Arg Gln Asp Ser Lys Ala Trp Leu Phe
 195 200 205
 Phe Leu Val Ser Thr Val Ala Phe Gly Ile Leu Thr Tyr Met Ile Val
 210 215 220
 Gly Gly Thr Arg Ala Asn Ile Ile Ile Ala Phe Ala Ile Phe Leu Phe
 225 230 235 240
 Ile Gly Ile Ile Arg Gly Trp Ile Ser Leu Trp Met Leu Ala Ala Ala
 245 250 255

Gly Val Phe Gly Ile Val Gly Met Phe Trp Leu Ala Leu Lys Arg Tyr
 260 265 270
 Gly Leu Asn Val Ala Gly Asp Glu Ala Phe Tyr Thr Phe Leu Tyr Leu
 275 280 285
 Thr Arg Asp Thr Phe Ser Pro Trp Glu Asn Leu Ala Leu Leu Leu Gln
 290 295 300
 Asn Tyr Asp Lys Ile Glu Phe Gln Gly Leu Ala Pro Ile Val Arg Asp
 305 310 315 320
 Phe Tyr Val Phe Ile Pro Thr Trp Leu Trp Pro Asp Arg Pro Gly Ile
 325 330 335
 Val Leu Asn Thr Ala Asn Tyr Phe Thr Trp Glu Val Leu Asn Asn His
 340 345 350
 Ser Gly Leu Ala Ile Ser Pro Thr Leu Ile Gly Ser Leu Val Val Met
 355 360 365
 Gly Gly Thr Trp Phe Ile Leu Pro Gly Ala Ile Ala Val Gly Leu Ile
 370 375 380
 Ile Lys Trp Phe Asp Trp Leu Tyr Thr Leu Gly Asn Glu Glu Thr Asn
 385 390 395 400
 Arg Tyr Lys Ala Ala Val Leu His Ser Phe Cys Phe Gly Ala Ile Phe
 405 410 415
 Asn Met Ile Val Leu Ala Arg Glu Gly Leu Asp Ser Phe Val Ser Arg
 420 425 430
 Val Val Phe Phe Met Val Val Phe Gly Leu Cys Leu Leu Leu Ala Lys
 435 440 445
 Leu Leu Tyr Trp Leu Phe Asp Ser Ala Gly Leu Val His Arg Arg Glu
 450 455 460
 Pro Gln Gly Ser Thr Thr Leu Ser Gln Val
 465 470 475

<210> 6745

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6745

Val Gly Ile Ile Met Thr Asp Thr Thr Ser Ala Pro Arg Tyr Ala Leu
 1 5 10 15
 Arg Gly Leu Gln Leu Ile Gly Trp Arg Asp Met Gln His Ala Leu Asp
 20 25 30
 Phe Leu Phe Ala Asp Gly Gln Met Lys Ser Gly Thr Leu Val Ala Ile
 35 40 45
 Asn Ala Glu Lys Met Leu Ala Val Glu Asp Asn Ala Glu Val Lys Ser
 50 55 60
 Leu Ile Glu Ala Ala Glu Phe Lys Tyr Ala Asp Gly Ile Ser Val Val
 65 70 75 80
 Arg Ser Ile Arg Lys Lys Phe Pro Asp Ala Asn Val Ser Arg Val Ala
 85 90 95
 Gly Ala Asp Leu Trp Glu Arg Leu Met Glu Arg Ala Gly Ala Glu Gly
 100 105 110
 Thr Pro Val Phe Leu Ile Gly Gly Lys Pro Glu Val Leu Ala Gln Thr
 115 120 125
 Glu Gln Lys Leu Arg Asn Gln Trp Asn Val Asn Ile Val Gly Ser Gln
 130 135 140
 Asp Gly Tyr Phe Arg Pro Glu Asp Arg Gln Thr Leu Tyr Glu Arg Val
 145 150 155 160
 Arg Asp Ser Gly Ala Lys Ile Val Thr Val Ala Met Gly Ser Pro Arg
 165 170 175
 Gln Glu Ile Leu Met Arg Asp Cys Arg Leu Val Ser Pro Asp Ala Leu
 180 185 190
 Tyr Met Gly Val Gly Gly Thr Tyr Asp Val Phe Thr Gly His Val Lys
 195 200 205

Arg Ala Pro Lys Val Trp Gln Asn Leu Gly Leu Glu Trp Leu Tyr Arg
 210 215 220
 Leu Leu Ser Gln Pro Thr Arg Ile Lys Arg Gln Ile Arg Leu Leu Arg
 225 230 235 240
 Tyr Leu Ala Trp His Tyr Thr Gly Lys Met
 245 250

<210> 6746

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 6746

Glu Thr Ile Arg Ser Val Phe Gln Tyr Pro Ser Lys Thr Ile Pro Gly
 1 5 10 15
 Asn Lys Ser Gly Asn Ser Lys His Asn Arg Gly Ile Met Ala Glu Lys
 20 25 30
 Lys Pro Glu Leu Gln Arg Gly Leu Glu Ala Arg His Ile Glu Leu Ile
 35 40 45
 Ala Leu Gly Gly Thr Ile Gly Val Gly Leu Phe Met Gly Ser Ala Ser
 50 55 60
 Thr Leu Lys Trp Ala Gly Pro Ser Val Leu Leu Ala Tyr Ile Ile Ala
 65 70 75 80
 Gly Leu Phe Val Phe Phe Ile Met Arg Ser Met Gly Glu Met Leu Phe
 85 90 95
 Leu Glu Pro Val Thr Gly Ser Phe Ala Val Asn Ala His Arg Tyr Met
 100 105 110
 Ser Pro Phe Phe Gly Tyr Leu Thr Ala Trp Ser Tyr Trp Phe Met Trp
 115 120 125
 Met Ala Val Gly Ile Ser Glu Ile Thr Ala Ile Gly Val Tyr Val Gln
 130 135 140
 Phe Trp Phe Pro Glu Met Ala Gln Trp Ile Pro Ala Leu Ile Ala Val
 145 150 155 160
 Gly Leu Val Ala Leu Ala Asn Ile Ala Ala Val Arg Leu Tyr Gly Glu
 165 170 175
 Ile Glu Phe Trp Phe Ala Met Ile Lys Val Thr Thr Ile Ile Val Met
 180 185 190
 Ile Val Val Gly Leu Gly Val Ile Phe Phe Gly Phe Asn Gly Gly
 195 200 205
 His Ala Val Gly Phe Gly Asn Leu Thr Gly His Gly Gly Phe Phe Ala
 210 215 220
 Gly Gly Trp Lys Gly Phe Leu Thr Ala Leu Cys Ile Val Val Ala Ser
 225 230 235 240
 Tyr Gln Gly Val Glu Leu Ile Gly Ile Thr Ala Gly Glu Ala Lys Asn
 245 250 255
 Pro Gln Val Thr Leu Arg Ser Ala Val Gly Lys Val Leu Trp Arg Ile
 260 265 270
 Leu Ile Phe Tyr Val Gly Ala Ile Phe Val Ile Val Thr Ile Phe Pro
 275 280 285
 Trp Asn Glu Ile Gly Thr Thr Gly Ser Pro Phe Val Leu Thr Phe Ala
 290 295 300
 Lys Ile Gly Ile Thr Ala Ala Ala Ala Ile Ile Asn Phe Val Val Leu
 305 310 315 320
 Thr Ala Ala Leu Ser Arg Leu
 325

<210> 6747

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 6747
 Thr Gln Ser Gly Asn Ala Met Ser Phe Thr Thr Ile Ser Val Val Gly
 1 5 10 15
 Leu Gly Tyr Ile Gly Leu Pro Thr Ala Ala Phe Ala Ser Arg Gln
 20 25 30
 Lys Gln Val Val Gly Val Asp Ile Asn Ala His Ala Val Glu Thr Ile
 35 40 45
 Asn Arg Gly Glu Ile His Ile Val Glu Pro Asp Leu Asp Arg Val Val
 50 55 60
 Lys Lys Ala Val Asp Gly Gly Phe Leu Arg Ala Ser Thr Thr Pro Val
 65 70 75 80
 Glu Ala Asp Ala Tyr Leu Ile Ala Val Pro Thr Pro Phe Lys Gly Asp
 85 90 95
 His Glu Pro Asp Met Val Tyr Val Glu Ala Ala Lys Ser Ile Ala
 100 105 110
 Pro Val Leu Lys Lys Gly Ala Leu Val Ile Leu Glu Ser Thr Ser Pro
 115 120 125
 Val Gly Ala Thr Glu Gln Met Ala Gln Trp Leu Ala Glu Ala Arg Pro
 130 135 140
 Asp Leu Ser Phe Pro Gln Gln Val Gly Asp Gln Ala Asp Ile Asn Ile
 145 150 155 160
 Ala Tyr Cys Pro Glu Arg Val Leu Pro Gly Gln Val Met Val Glu Leu
 165 170 175
 Ile Lys Asn Asp Arg Val Ile Gly Gly Met Thr Pro Val Cys Ser Ala
 180 185 190
 Arg Ala Ser Glu Leu Tyr Lys Ile Phe Leu Glu Gly Glu Cys Val Val
 195 200 205
 Thr Asn Ser Arg Thr Ala Glu Met Cys Lys Leu Thr Glu Asn Ser Phe
 210 215 220
 Arg Asp Val Asn Ile Ala Phe Ala Asn Glu Leu Ser Leu Ile Cys Ala
 225 230 235 240
 Asp Gln Gly Ile Asn Val Trp Glu Leu Ile Arg Leu Ala Asn Arg His
 245 250 255
 Pro Arg Val Asn Ile Leu Gln Pro Gly Pro Gly Val Gly Gly His Cys
 260 265 270
 Ile Ala Val Asp Pro Trp Phe Ile Val Ala Gln Asn Pro Glu Gln Ala
 275 280 285
 Arg Leu Ile Arg Thr Ala Arg Glu Val Asn Asp His Lys Pro His Trp
 290 295 300
 Val Ile Asn Gln Val Lys Ala Thr Val Ala Asp Cys Leu Ala Asp Ser
 305 310 315 320
 Gly Lys Arg Ala Ser Glu Leu Lys Ile Ala Cys Phe Gly Leu Ala Phe
 325 330 335
 Lys Pro Asn Ile Asp Asp Leu Arg Glu Ser Pro Ala Met Glu Ile Ala
 340 345 350
 Glu Met Ile Ala Ala Trp His Ser Gly Glu Thr Leu Val Val Glu Pro
 355 360 365
 Asn Ile His Ala Leu Pro Ala Lys Leu Ala Gly His Cys Thr Leu Thr
 370 375 380
 Ala Leu Asp Asp Ala Leu Ala Thr Ala Asp Val Leu Val Leu Leu Val
 385 390 395 400
 Asp His Asn Ala Phe Lys Ala Val Ser Gly Asp Ala Val Arg Gln Gln
 405 410 415
 Tyr Val Val Asp Thr Lys Gly Val Trp Arg
 420 425

<210> 6748

<211> 435

<212> PRT

<213> Enterobacter cloacae

<400> 6748

Pro Gly Ala Ala Trp Ala Arg Asn Ser Cys Arg Arg Arg Cys Thr Gly
 1 5 10 15
 Arg Ser Asn Asn Arg Tyr Arg Arg Cys Gly Ser Gln Pro Arg Trp Ala
 20 25 30
 Thr Pro Leu Arg Leu Asn Val Ile Leu Arg Val Val Pro Ala Ser Thr
 35 40 45
 Pro Pro Pro Thr Gly Tyr Thr Gly Asp Lys Met Ile Pro Phe Asn Ala
 50 55 60
 Pro Pro Val Val Gly Thr Glu Leu Asp Tyr Met Gln Ser Ala Met Gly
 65 70 75 80
 Ser Gly Lys Leu Cys Gly Asp Gly Gly Phe Thr Arg Arg Cys Gln Gln
 85 90 95
 Trp Met Glu Gln Arg Phe His Ser Ala Lys Val Leu Leu Thr Pro Ser
 100 105 110
 Cys Thr Ala Ser Leu Glu Met Ala Ala Leu Leu Leu Asp Ile Gln Pro
 115 120 125
 Gly Asp Glu Val Ile Met Pro Ser Tyr Thr Phe Val Ser Thr Ala Asn
 130 135 140
 Ala Phe Val Leu Arg Gly Ala Lys Ile Val Phe Val Asp Ile Arg Pro
 145 150 155 160
 Asp Thr Met Asn Ile Asp Glu Thr Leu Ile Glu Ala Ala Ile Thr Asp
 165 170 175
 Lys Thr Arg Ala Ile Val Pro Val His Tyr Ala Gly Val Ala Cys Glu
 180 185 190
 Met Asp Thr Ile Met Ala Ile Ala Lys Lys His Asn Leu Phe Val Val
 195 200 205
 Glu Asp Ala Ala Gln Gly Val Met Ser Thr Tyr Lys Gly Arg Ala Leu
 210 215 220
 Gly Thr Ile Gly His Ile Gly Cys Phe Ser Phe His Glu Thr Lys Asn
 225 230 235 240
 Tyr Thr Ala Gly Gly Glu Gly Gly Ala Thr Leu Ile Asn Asp Arg Ala
 245 250 255
 Leu Val Glu Arg Ala Glu Val Ile Arg Glu Lys Gly Thr Asn Arg Ser
 260 265 270
 Gln Phe Phe Arg Gly Gln Val Asp Lys Tyr Thr Trp Arg Asp Ile Gly
 275 280 285
 Ser Ser Tyr Leu Met Ala Asp Leu Gln Ala Ala Tyr Leu Trp Ala Gln
 290 295 300
 Leu Glu Ala Ala Glu Arg Ile Asn Leu Gln Arg Leu Ser Leu Trp Gln
 305 310 315 320
 Thr Tyr Tyr Asp Ala Leu Glu Pro Leu Ala Lys Ala Gly Arg Ile Glu
 325 330 335
 Leu Pro Thr Ile Pro Ala Asp Cys Ile His Asn Ala His Met Phe Tyr
 340 345 350
 Ile Lys Leu Arg Asp Asn Asp Asp Arg Ser Lys Leu Ile Ala Trp Leu
 355 360 365
 Lys Glu Ala Glu Ile Met Ala Val Phe His Tyr Ile Pro Leu His Ser
 370 375 380
 Ser Pro Ala Gly Glu Ala Phe Gly Met Phe Ala Gly Glu Asp Arg Tyr
 385 390 395 400
 Thr Thr Lys Glu Ser Glu Arg Leu Leu Arg Leu Pro Leu Phe Tyr Asn
 405 410 415
 Leu Ala Pro Val Asn Gln Arg Thr Val Ile Asn Ser Leu Leu Ser Tyr
 420 425 430
 Phe Ala

435

<210> 6749

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 6749

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Thr Arg Met Thr Ala Leu Ile His Ile Leu Gly Ser Asp Ile Pro His
1      5      10      15
His Asn Gln Thr Val Leu Arg Phe Phe Asn Asp Glu Leu Ala Ser Gly
      20      25      30
Thr Pro Asp Ala Arg Glu Phe Met Val Val Gly Arg Asp Asn Gly Leu
      35      40      45
Ser Val Ala Cys Pro Ala Leu His Ile Thr Phe Trp Pro Asp Lys Ala
      50      55      60
Ala Leu Thr Lys Ala Val Val Ala Lys Ala Lys Ala Asp Arg Ser Gln
65      70      75      80
Arg Phe Phe Phe His Gly Gln Phe Asn Thr Gly Leu Trp Leu Ala Leu
      85      90      95
Leu Ser Gly Gly Ile Lys Pro Ser Gln Phe Ser Trp His Ile Trp Gly
      100      105      110
Ala Asp Leu Tyr Glu Val Ser Arg Gly Trp Lys Phe Arg Leu Phe Tyr
      115      120      125
Pro Leu Arg Arg Leu Ala Gln Ala Arg Val Gly Cys Val Phe Ala Thr
      130      135      140
Arg Gly Asp Leu Asn Tyr Phe Ala Lys Gln His Pro Lys Val Arg Gly
145      150      155      160
Glu Leu Leu Tyr Phe Pro Thr Arg Met Asp Pro Ala Leu Asn Thr Leu
      165      170      175
Ala Asn Asp Ala Val Arg Glu Gly Lys Leu Thr Ile Leu Val Gly Asn
      180      185      190
Ser Gly Asp Arg Ser Asn Glu His Val Ala Ala Leu Arg Ala Val His
      195      200      205
Gln Gln Phe Gly Asp Thr Val Asn Val Val Val Pro Met Gly Tyr Pro
      210      215      220
Ala Asn Asn Asp Ala Tyr Ile Asn Asp Val Arg Gln Gln Gly Leu Ala
225      230      235      240
Leu Phe Ser Ala Glu Asn Leu His Ile Leu Asn Asp Lys Leu Glu Phe
      245      250      255
Asp Asp Tyr Leu Ala Leu Leu Arg Lys Cys Asp Leu Gly Tyr Phe Ile
      260      265      270
Phe Ala Arg Gln Gln Gly Ile Gly Thr Leu Cys Leu Ile Gln Ala
      275      280      285
Gly Val Pro Cys Val Leu Asn Arg Glu Asn Pro Phe Trp Gln Asp Met
      290      295      300
Ala Glu Gln His Ile Pro Val Leu Phe Thr Ser Asp Thr Leu Asn Val
305      310      315      320
Glu Val Val Arg Glu Ala Gln Arg Gln Leu Thr Leu Val Asp Lys Asn
      325      330      335
Ser Ile Asp Phe Phe Ser Pro Asn Tyr Leu Thr Pro Trp His His Ala
      340      345      350
Leu Arg Ile Ala Ser Gly Asp Asn Ala
      355      360

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<210> 6750

<211> 291

<212> FRT

<213> Enterobacter cloacae

<400> 6750

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Gln Pro Ile Pro Ala Val Val Cys Arg Leu Thr Lys Ala Lys Ser Glu
1      5      10      15
Leu Ser Arg Leu Ser Asn Gln Pro Ala Ala Ala Arg Arg Val Asn Pro
      20      25      30
Leu Asn Gly Val Leu Met Gln Ile Ser Thr Glu Val Leu Asn Val Leu

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          35          40          45
Ser Arg Cys Arg Ala Glu Gly Asn Phe Leu Phe Leu Ala Asp Gln Leu
50          55          60
Asp Arg Ser Ile Tyr Val Lys Thr Asn Lys Val Leu Glu Ala Ala Gly
65          70          75          80
Gly Lys Trp Asn Arg Lys Glu Gln Ala His Ile Phe Thr Ala Asp Ala
85          90          95
Ala Glu Arg Ile Glu Gln Ile Ile Leu Thr Gly Ser Val Asp Ile Pro
100          105          110
Arg Asp Leu Phe Asn Phe Phe Pro Thr Pro Glu Asn Leu Val Thr Asp
115          120          125
Met Val Leu Arg Ala Glu Pro Ala Ala Gly Glu Arg Val Leu Glu Pro
130          135          140
Glu Phe Gly Asp Gly Arg Ile Leu Lys Ala Leu Lys Leu Ala Ala Pro
145          150          155          160
Asp Ala Leu Ile Thr Gly Ile Glu Leu Asn Asp Glu Arg Phe Leu Ala
165          170          175
Val Lys Asn Asp Ser Val Leu Ser Thr Gly Val Glu Leu Val His Thr
180          185          190
Asp Phe Leu Gly Tyr Gln Pro Asp Glu Thr Phe Asp Val Ile Val Met
195          200          205
Asn Pro Pro Phe Leu Lys Arg Ser Asp Val Lys His Val Met His Ala
210          215          220
Ile Ala Met Leu Ala Lys Arg Gly Arg Leu Gln Ala Ile Leu Ser Ala
225          230          235
Gly Val Leu Phe Arg Glu Asp Thr Leu Thr Lys Ala Leu Arg Glu Arg
245          250          255
Val Lys Gln Leu Gly Gly Gln Ile Ser Pro Leu Pro Asp Asp Thr Phe
260          265          270
Arg Glu Ser Gly Thr Lys Val Lys Thr Ala Arg Leu Glu Ile Asp Leu
275          280          285
Arg Arg
290

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<210> 6751

<211> 365

<212> PR7

<213> Enterobacter cloacae

<400> 6751

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Leu Ile Met Thr Lys Glu Lys Asp Thr Glu Gln Gln Asp Leu Val Thr
1          5          10          15
Arg Ala Phe Ser Val Arg Glu Lys Glu Ser Gly Lys Asp Ile Ile Leu
20          25          30
Arg Pro Asn Ser Asn Arg Thr Val Gln Ser Ile Ala Leu Met Arg Leu
35          40          45
Gly Leu Phe Val Pro Ser Pro Lys Ser Val Gly Arg Gln Asn Arg Glu
50          55          60
Tyr Lys Thr Val Gly Phe Asp Ala Thr Lys Glu Leu Gln Thr Leu Ser
65          70          75          80
Leu Met Glu Ser Glu Gly Phe Thr Asn Ile Ser Ile Val Gly Glu Arg
85          90          95
Leu Asp Met Ser Val Asp Phe Lys Thr Trp Met Gly Ile Ile Arg Thr
100          105          110
Tyr Ala Asn His Pro Ile Asn Asn Asp Thr Ile Ser Leu Lys Phe Thr
115          120          125
Glu Phe Leu Lys Leu Cys Thr Pro Glu Asn Tyr Arg Ser Ser Thr Ala
130          135          140
Ser Arg Lys Arg Ile Asp Ala Ser Leu Arg Arg Leu Ala Ser Val Thr
145          150          155          160
Leu Ser Phe Thr Ser Asn Asn Ser Ser Lys Val Tyr Thr Thr His Leu

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<210> 6752
<211> 273
<212> PRT
<213> Enterobacter cloacae
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[illegible]

225				230				235			240
Ile	Pro	Gln	Glu	Trp	Lys	Asn	Asn	Val	Gln	His	Ile
				245				250			255
Lys	Met	Ala	Gly	Glu	Leu	Phe	Asp	Arg	Ala	Pro	Glu
			260					265			270

<210> 6753

<211> 1457

<212> PRT

<213> Enterobacter cloacae

<400> 6753

Gly	Met	Ser	Asp	Asn	Asn	Ala	Ala	Arg	Lys	Gly	Asp	Glu	Ile	Ile	His
1				5					10				15		
Ser	Ser	Ile	Phe	Ala	Asp	Ile	Thr	Ser	Ile	Val	Ala	Glu	Gly	Ala	Ala
			20					25				30			
Tyr	Ala	Val	Ile	Gly	Ala	Ala	Val	Gly	Ala	Ala	Ala	Thr	Val	Ala	Ala
		35					40					45			
Pro	Leu	Leu	Gly	Ala	Gly	Ala	Ala	Ala	Ala	Gly	Val	Ala	Ala	Ile	Gly
		50				55				60					
Ser	Ser	Cys	Leu	Leu	Ser	Gly	Ile	Ile	Gly	Gly	Val	Leu	Ala	Asn	Val
65					70				75				80		
Ala	Gly	Ile	Thr	Asp	Asp	Ile	Ser	Asn	Ala	Ala	Glu	Gly	Leu	Gly	Asn
				85				90					95		
Ala	Leu	Phe	Pro	Pro	Ser	Pro	Ala	Gly	Lys	Ile	Thr	Thr	Gly	Ser	Asn
			100					105					110		
Asn	Val	Leu	Thr	Asn	Ala	Ile	Pro	Ala	Ala	Arg	Ala	Ala	Gly	Thr	Leu
		115				120						125			
Thr	Pro	Ala	Asp	Thr	Pro	Ser	Pro	Glu	Pro	Gln	Ser	Pro	Gly	Ser	Phe
		130				135					140				
Ala	Asp	Tyr	Ala	Gly	Met	Leu	Leu	Ser	Ala	Ala	Gly	Gln	Phe	Gly	Ser
145					150				155					160	
Glu	Met	Trp	Gln	Pro	Ser	Val	Ala	Ser	Ala	Ala	Ala	Gly	Thr	Ser	Pro
			165					170					175		
Leu	Glu	Glu	Asp	Lys	Val	Ala	Cys	Glu	Lys	His	Ser	Gly	Pro	Gln	Tyr
		180						185				190			
Leu	Ala	Glu	Gly	Ser	Lys	Ser	Val	Phe	Ile	Asn	Gly	Gln	Pro	Ala	Val
		195					200					205			
Arg	Ala	Lys	Asp	Arg	Thr	Thr	Cys	Glu	Gly	Thr	Val	Ser	Asp	Asp	Val
210					215						220				
Ser	Pro	Asn	Val	Ile	Ile	Gly	Gly	Asp	Thr	Leu	Thr	Val	Arg	Asp	Ile
225					230				235					240	
Lys	Ser	Gly	Lys	Thr	Pro	Gly	Leu	Ala	Leu	Gly	Met	Ile	Ala	Leu	Ser
			245					250					255		
Leu	Leu	Arg	Gly	Arg	Pro	Gly	Lys	Ile	Leu	Lys	Asn	Met	Pro	Cys	Ala
		260						265				270			
Leu	Ala	Ala	Ala	Gly	Gly	Gly	Met	Leu	Ala	Asp	Met	Ala	Val	Asn	Ala
		275				280					285				
Val	Phe	Gly	Ser	Ser	His	Pro	Val	His	Ala	Ala	Thr	Gly	Val	Lys	Val
		290				295					300				
Leu	Asn	Asp	Asp	Asp	Glu	Leu	Asp	Phe	Ser	Leu	Pro	Gly	Arg	Phe	Pro
305				310				315						320	
Leu	Arg	Trp	Gln	Arg	Ser	Tyr	Asn	Ser	Leu	Thr	Thr	Arg	Glu	Gly	Leu
			325					330					335		
Phe	Gly	Leu	Gly	Trp	Ala	Thr	Thr	Phe	Asp	Ser	Tyr	Leu	Thr	Leu	Glu
		340						345				350			
Glu	Asn	Asn	Ala	Thr	Trp	Phe	Asp	Glu	Thr	Gly	Arg	Glu	Leu	Ser	Phe
		355				360					365				
Glu	Leu	Pro	Pro	Val	Asp	Arg	Ala	Phe	Tyr	Ser	Ile	Ser	Glu	Gly	Ile

370	375	380
Ile Ile Arg Arg Asn Glu	Ser Gly Asp Val Ala	Ile Ala Asp Asp Asp
385	390	395
Gly Ala Val Trp Arg Leu Tyr Lys Pro Thr Arg Ala Asn Pro Ser Ile		400
	405	410
Leu Arg Leu Ala Ser Leu Ser Asp Glu Tyr Gly Asn Ala Leu Leu Thr		415
	420	425
Ala Trp Asp Glu His Gly Arg Leu Val Gly Ile His Asp Glu Pro Arg		430
	435	440
Ala Ile Asp Val Ser Leu Arg Tyr Asp Asp Glu Arg Phe Pro Gln Arg		445
	450	455
Val Thr Ala Ala Ser His Phe Asp Gly Asn Gln Thr Trp Pro Leu Met		460
	465	470
His Trp Gly Tyr Asp Ala Arg Gly Gln Leu Ala Ser Ala Thr Asp Ala		475
	485	490
Ser Gly Val Val Thr Arg Glu Tyr Arg Tyr Asn Asp His Gly Leu Met		495
	500	505
Val Trp His Arg Met Pro Gly Gly Leu Glu Ser Glu Tyr Arg Trp Gln		510
	515	520
Lys Phe Asp His Trp Arg Val Val Glu Asn Arg Thr Ser Thr Gly Asp		525
	530	535
Gly Cys Arg Phe Thr Tyr Asp Leu Ala Ala Gly Leu Thr Thr Val Glu		540
	545	550
His Tyr Asp Gly Gln Thr Arg Lys His Tyr Trp Asn Ala Gln Asn Leu		555
	565	570
Ile Val Arg Tyr Val Asp Glu Ser Gly Glu Asn Trp Arg Tyr Glu Trp		575
	580	585
Asp Asp Asn Glu Leu Leu Thr Arg Arg Ile Asp Pro Leu Gly Asn Ala		590
	595	600
Val Thr Phe Val Tyr Asp Asp Met Gly Asn Arg Val Gln Glu Ile Asp		605
	610	615
Ala Asp Gly Asn Thr Arg Thr Thr Thr Trp Leu Glu His Arg Ala Leu		620
	625	630
Pro Ala Ala Ile Ile Glu Ala Asp Gly Asn Ala Thr Arg Phe Trp Tyr		635
	645	650
Asp Glu His His Gly Leu Lys Arg Val Val Asp Pro Met Gly Gln Thr		655
	660	665
Thr Leu Leu Arg Arg Asp Glu Phe Gly Gln Val Val Glu Glu Val Asp		670
	675	680
Ala Ala Gly Asn Ser Arg Tyr Gln Glu Tyr Asn Glu Ala Gly Gln Met		685
	690	695
Val Arg Ala Thr Asp Cys Ser Gly Arg Val Thr Gln Tyr Arg Tyr His		700
	705	710
Pro Leu Gly Trp Leu Met Ala Glu Thr Ala Ala Asp Gly Glu Glu Thr		715
	725	730
Arg Tyr Arg Tyr Asp Ala Ala Gly Arg Pro Val Gln Leu Asp Arg Pro		735
	740	745
Glu Gly Trp Thr Glu Ser Leu Lys Trp Asn Glu Arg Gly Leu Pro Val		750
	755	760
Lys His Ala Gly Ala Asp Gly Lys Glu Ser Glu Phe Arg Tyr Asp Glu		765
	770	775
Ala Gly Arg Leu Thr Ala Thr Arg Asn Thr Gln Gly Glu Glu Val Arg		780
	785	790
Arg Arg Trp Asp Ser Arg Gly Arg Leu Ile Ala Leu Glu Asn Glu Asn		795
	805	810
Gly Glu Ala Tyr Gln Phe Arg Trp Gly Pro Asp Ser Leu Leu Leu Glu		815
	820	825
Glu Val Gly Leu Asp Gly Val Ala Ser Gln Tyr Arg Tyr Asp Ala Cys		830
	835	840
Gly Arg Thr Ile Ala Arg Thr Phe Ala Ala Gly His Pro Glu Ala Ile		845
	850	855
		860

Thr His Ala Phe Ala Trp Ser Ala Ser Gly Gln Leu Val Ala Arg Thr
 865 870 875 880
 Thr Pro Glu Gly Gln Thr Arg Tyr His Tyr Thr Pro Ser Gly Leu Leu
 885 890 895
 Ser Arg Ile Gly Leu His Pro Ala Leu Ser Ala Asp Ala Trp Ser Ala
 900 905 910
 Glu Ala Glu Gln Glu Leu Val Phe Glu Tyr Asp Ala Leu Gly Arg Val
 915 920 925
 Thr Arg Glu Thr Gly Glu His Gly Glu Leu Ala Trp Glu Tyr Asp Ala
 930 935 940
 Leu Gly Asn Arg Thr Ser Val Thr Leu Pro Asp Gly Arg Glu Leu Lys
 945 950 955 960
 Gln Phe Tyr Tyr Gly Ser Gly His Leu Leu Ser Ile Ala Leu Asp Lys
 965 970 975
 Leu Ser Val Ser Asp Phe Thr Arg Asp Glu Leu His Arg Glu Thr Ser
 980 985 990
 Arg Thr Gln Gly Leu Leu Thr Thr Arg Ser Glu Tyr Asp Arg Leu Gly
 995 1000 1005
 Arg Leu His Arg Arg Asp Val Phe Thr Gly Asn Ala Gln Arg Pro Ser
 1010 1015 1020
 Pro Arg Arg Trp Ser Arg Arg Trp Asp Tyr Asp Tyr Arg Asn Asn Leu
 1025 1030 1035 1040
 Val Arg Glu Glu Arg Asp Asp Asn Pro Phe Asn Trp Tyr Arg Trp Gln
 1045 1050 1055
 Tyr Asp Ser Ala Gly Arg Leu Leu Val Gln Asp Gly Thr Leu Pro Gly
 1060 1065 1070
 Gln Glu Gln Trp Arg Trp Asp Ala Ala Gly Asn Pro Leu Glu Gly Ser
 1075 1080 1085
 Val Glu Lys Val Thr His Asn Arg Leu Thr Gln Leu Asn Gly Ile Arg
 1090 1095 1100
 Trp Arg Tyr Asp Val His Gly Arg Thr Val Glu Lys Asp Asn Gly Gln
 1105 1110 1115 1120
 Thr Arg Trp His Tyr Arg Tyr Asp Gly Glu His Arg Leu Thr Glu Val
 1125 1130 1135
 Ile Ser Gln Pro Arg Asp Arg Asn Arg Pro Gln Thr Gln Val Ser Phe
 1140 1145 1150
 Arg Tyr Asp Pro Leu Gly Arg Arg Ile Ser Lys Thr Arg Arg Gln Met
 1155 1160 1165
 Leu Gly Gly Gln Pro Ala Gly Lys Pro Val Thr Thr Arg Phe Val Trp
 1170 1175 1180
 Glu Gly Phe Arg Leu Leu Gln Glu Val His Gly Glu Val Pro Leu Thr
 1185 1190 1195 1200
 Tyr Val Tyr Ser Asp Gln Asp Ser Tyr Asp Pro Leu Ala Arg Ile Asp
 1205 1210 1215
 Gly Val Asp Ala Pro Glu Ile Phe Trp Phe His Cys Gln Pro Asn Gly
 1220 1225 1230
 Thr Pro Glu Arg Met Thr Asp Ser Glu Gly Gln Val Arg Trp Val Gly
 1235 1240 1245
 Val Asn Ser Ala Trp Gly Lys Leu Leu Arg Glu Ser Glu Thr Gln Val
 1250 1255 1260
 Ser Gly Tyr Ser Gln Asn Leu Arg Met Gln Gly Gln Tyr Leu Asp Arg
 1265 1270 1275 1280
 Glu Thr Gly Leu His Tyr Asn Leu Phe Arg Tyr Tyr Asp Pro Asp Cys
 1285 1290 1295
 Gly Leu Phe Thr Gln Gln Asp Pro Ile Gly Leu Ala Gly Gly Ile Asn
 1300 1305 1310
 Leu Tyr Gln Tyr Ala Pro Asn Ala Leu Gly Trp Val Asp Pro Trp Gly
 1315 1320 1325
 Leu Lys Cys Gly Phe Ser Gln Lys Asp Arg Ile Thr Gln Arg Trp Val
 1330 1335 1340
 Asp Arg Leu Thr Gly Lys Lys Pro Ala Asp Val His Asn Ile Leu Thr

1345 1350 1355 1360
 Ser Lys Gly Trp Thr Arg Thr Tyr Pro Gln Ala Asn Lys Pro Gly Ala
 1365 1370 1375
 Ile Gln His Ile Gln Tyr Val Lys Thr Thr Lys Ser Gly Thr Thr Tyr
 1380 1385 1390
 Lys Leu Asp Tyr His Pro Gly Gly Thr Pro Thr Gln Pro Asn Ile His
 1395 1400 1405
 Gly Asn Asp Tyr Trp Lys Val Tyr Arg Glu Val Asp Gly Ala Asp Val
 1410 1415 1420
 Val Tyr Gly Arg Ile Gly His Gly Glu Phe Lys Asn Tyr Asp Leu Ile
 1425 1430 1435 1440
 Thr Asp Ser Pro Val Tyr Val Asp Gly Val Leu Leu Asn Gly Gly Val
 1445 1450 1455

<210> 6754

<211> 761

<212> PRT

<213> Enterobacter cloacae

<400> 6754

Asn Ala Thr Val Thr Cys Val Ser Ser Asn Ala Gln Thr Val Arg Arg
 1 5 10 15
 Leu Ser Lys Pro Cys Trp Val Ser Ile Lys Leu Asn Leu Gln Lys Gln
 20 25 30
 Leu Thr Gly Ser Tyr Arg Val Trp Asp Tyr Cys Val Gln Tyr Gln Glu
 35 40 45
 Ser Ser Leu Asp Phe Ile Ser Arg Leu Met Glu Leu Glu Gly Ile Ala
 50 55 60
 Tyr Tyr Phe Arg His Glu Ala Asp Lys His Thr Leu Val Leu Thr Asp
 65 70 75 80
 Ala Ala Thr Gln His Gln Pro Phe Ser Gly Tyr Glu Val Ile Pro Tyr
 85 90 95
 His Gln Thr Pro Ser Gly Gly Ser Thr Asp Glu Glu Gly Ile Ser Gln
 100 105 110
 Trp Ala Leu Glu Asp Cys Val Thr Pro Gly Ile Tyr Ser Leu Asp Asp
 115 120 125
 Tyr Asp Phe Arg Lys Pro Asn Ala Trp Leu Phe Gln Ala Gln Gln Asn
 130 135 140
 Pro Ala Ser Pro Lys Pro Gly Ser Ile Asp Val Tyr Asp Trp Pro Gly
 145 150 155 160
 Arg Phe Val Glu Thr Gly His Ala Glu Phe Tyr Ala Arg Ile Arg Gln
 165 170 175
 Glu Arg Trp Gln Val Glu His Gln Gln Ile Gln Ala Thr Ala Thr Ala
 180 185 190
 Ala Gly Ile Ala Pro Gly His Ile Phe Thr Leu Thr Asn Ala Pro Phe
 195 200 205
 Phe Ser Asp Asn Gly Glu Tyr Leu Val Thr Ala Ala Gly Tyr His Phe
 210 215 220
 Glu Glu Asn Arg Tyr Ala Ser Gly Glu Gly Glu Thr Ile His Arg Thr
 225 230 235 240
 Asp Phe Thr Val Ile Pro Ala Ser Val Ser Tyr Arg Pro Ala Gln Ser
 245 250 255
 Thr Ala Trp Pro Arg Thr Tyr Gly Pro Gln Thr Ala Lys Val Val Gly
 260 265 270
 Pro Gln Gly Glu Ser Ile Trp Thr Asp Lys Tyr Gly Arg Val Lys Val
 275 280 285
 Lys Phe His Trp Asp Arg Leu Ala Lys Gly Asp Asp Thr Ser Ser Cys
 290 295 300
 Trp Val Arg Val Ser Ser Ala Trp Ala Gly Gln Gly Tyr Gly Gly Val

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305          310          315          320
Gln Ile Pro Arg Val Gly Asp Glu Val Val Val Asp Phe Ile Asn Gly
325          330          335
Asp Pro Asp Arg Pro Ile Ile Thr Gly Arg Val Tyr Asn Asp Ala Ser
340          345          350
Met Pro Pro Trp Ala Leu Pro Ala Ala Ala Thr Gln Met Gly Phe Met
355          360          365
Ser Arg Thr Lys Asp Gly Ser Val Asp Asn Ala Asn Ala Leu Arg Phe
370          375          380
Glu Asp Lys Ala Gly Ala Glu Gln Val Trp Ile Gln Ala Glu Arg Asn
385          390          395          400
Leu Asp Thr Ser Val Lys Asn Asp Glu Thr His Ser Val Gly Gly Ala
405          410          415
Arg Ser His Tyr Val Lys Lys Asn Glu Leu His Arg Val Glu Ala Asn
420          425          430
Gln Ile Gln Ala Val Lys Gly Gly Thr Glu Ile Leu Thr Gly Lys Gly
435          440          445
Lys Leu Asp Ala Ala Val Glu Gln Tyr Val Ile Ala Ser Gly Thr Lys
450          455          460
Leu Arg Leu Val Ser Gly Glu Ser Ala Ile Glu Leu Asn Ala Asn Gly
465          470          475          480
Lys Ile Asn Leu Ile Gly Lys Glu Phe Asn Phe Phe Val Glu Gly Asp
485          490          495          500
Gly Tyr Ile Thr Thr Gly Gly Lys Leu His Leu Asn Thr Ser Gly Thr
505          510          515
Lys Pro Gly Thr Thr Ala Pro Gly Ser Gly His Lys Gly Asp Ile Asp
520          525          530
Ala Ala Val Gln Glu Lys Phe Ser Pro Asn Lys Ser Ala Lys Asn Pro
535          540          545
Ala Pro Ala Ala Ser Ala Pro Ala Ala Thr Arg Pro Lys Pro Thr Thr
550          555          560
Lys Phe Ala Ser Ala Pro Pro Leu Lys Gly Ser Tyr Val Tyr Gln Asn
565          570          575
Asn Ser Tyr Asn Ser Asp Val Met Pro Phe Ser Glu Asp Val Val Lys
580          585          590
Glu Ile Asn Lys Ser Pro Thr Leu Gln Thr Gln Leu Lys Asp Leu Lys
595          600          605
Asp Lys Gly Trp Ala Ile Gln Pro Gly Ala Ala Gly Gly Gly Ser Tyr
610          615          620
Ala Asp Thr Asn Asn Lys Leu Ile Val Met Asp Pro Glu His Met Glu
625          630          635          640
Asp Thr Ala Thr Thr Val Gln Thr Leu Ala His Glu Ala Gly His Ala
645          650          655
Thr Tyr Pro Val Ala Val Asp Ser Ser Ser Lys Glu Ser Phe Ile Asn
660          665          670
Ser Gln Leu Met Asp Glu Gly Gly Ala Thr Leu Asn Asn Ile Lys Ile
675          680          685
Gln Arg Glu Ile Leu Ala Asn Gly Gly Ile Asp Ile Asp Ile Ala Gly
690          695          700
Ser Ala Glu Asn Leu Lys Ala Tyr Asn Ser Ala Tyr Asp Lys Met Val
705          710          715          720
Ser Gly Glu Leu Ser Arg Ile Asp Ala Ala Lys Ala Ile Gly Lys Val
725          730          735
Tyr Gly Lys Gly Glu Ile Ala Ser Gly Thr Asn Leu Asn Tyr Asn Asp
740          745          750
Tyr Tyr Gly Gly Phe Tyr Gly Lys
755          760

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<210> 6755

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 6755

Lys Pro Cys Ile Ile Gly Ser Thr Val Leu Phe Ile Ala Cys Ser Thr
 1 5 10 15
 Ala Ala Pro Ser Thr Leu Met Ala Thr Ser Ala Ala Pro Lys Leu Pro
 20 25 30
 Pro Asn Thr Ile Ser Pro Arg Ala Asn Ile Ser Gly Glu Ala Asn His
 35 40 45
 Ser Ala Thr Leu Arg Pro Ser Ile Pro Thr Thr Ala Gln His Met Val
 50 55 60
 Val Arg Ile Thr Ala Arg Val Pro Lys Arg Phe Thr Ser Gln Ala Glu
 65 70 75 80
 Gln Arg Met Pro Leu Ile Glu Pro Ile Asp Arg Pro Asn Ser Thr Ile
 85 90 95
 Pro Ile Ser Ala Val Glu Thr Asp Ser Val Ser Arg Ile Ala Gly Val
 100 105 110
 Arg Val Ala Gln Glu Ala Ile Ser Ser Pro Gly Met Lys Lys Asn Ile
 115 120 125
 Asn Ser Ala His Met Arg Arg Cys Arg Ala Leu Arg Gly Glu Val Ser
 130 135 140
 Val Ile Gly Ile Ser Thr Arg Ser Thr Thr Ile Ala Thr Thr Leu Ala
 145 150 155 160
 Thr Leu Cys Thr Phe Val His Lys Leu Asp Glu Asp Phe Met Ser Arg
 165 170 175
 Pro Pro Asn Asp Pro Asn Arg Arg Glu Lys Ile Leu Gln Ala Thr Leu
 180 185 190
 Asp Thr Ile Ala Glu His Gly Ile His Ala Val Thr His Arg Lys Ile
 195 200 205
 Ala Thr Cys Ala Gly Val Pro Leu Gly Ser Met Thr Tyr Tyr Phe Asp
 210 215 220
 Gly Met Glu Ser Leu Leu Glu Glu Ala Phe Thr Trp Phe Thr Gln Gln
 225 230 235 240
 Met Ser Gln Gln Tyr Arg Asp Phe Phe Ala Gly Val Thr Gly Arg Glu
 245 250 255
 Arg Ala Cys Glu Ala Ile Thr Thr Leu Ile Asn Ser Ser Ala Val Thr
 260 265 270
 Thr Pro His Asn Met Ala Leu Met Tyr Gln Leu Tyr Ala Phe Met His
 275 280 285
 Arg Ser Ala Ala Leu Lys Thr Val Met Gln Asp Trp Met Lys Met Ser
 290 295 300
 Gln Thr Thr Leu Glu Gln Trp Phe Asp Ser Ala Thr Ala Arg Ala Leu
 305 310 315 320
 Asp Ala Phe Ile Glu Gly Met Thr Leu His Phe Val Thr Asp Arg Ser
 325 330 335
 Pro Leu Thr Arg Glu Glu Ile Arg Val Met Val Gly Arg Ile Ala Gly
 340 345 350
 Glu Asp Thr Val
 355

<210> 6756

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6756

Met Ser Thr Arg Lys Lys Leu Gly Leu Thr Asn Thr Thr Phe Lys Thr
 1 5 10 15
 Val His Gly Leu Asp Ala Pro Gly Gln Phe Ser Thr Ala Arg Asp Met
 20 25 30
 Ala Leu Leu Gly Lys Ala Leu Ile His Asp Val Pro Asp Glu Tyr Ala

35 40 45
 Ile His Lys Glu Lys Glu Phe Thr Phe Asn Asn Ile Arg Gln Pro Asn
 50 55 60
 Arg Asn Arg Leu Leu Trp Ser Ser Asn Val Asn Val Asp Gly Met Lys
 65 70 75 80
 Thr Gly Thr Thr Ala Gly Ala Gly Tyr Asn Leu Val Ala Ser Ala Thr
 85 90 95
 Gln Gly Asp Met Arg Leu Ile Ser Val Val Leu Gly Thr Lys Thr Asp
 100 105 110
 Arg Ile Arg Phe Asn Glu Ser Glu Lys Leu Leu Thr Trp Gly Phe Arg
 115 120 125
 Phe Phe Glu Thr Val Thr Pro Ile Lys Pro Asp Ala Thr Phe Val Ser
 130 135 140
 Gln Arg Val Trp Phe Gly Asp Lys Ser Glu Val Asn Leu Gly Ala Gly
 145 150 155 160
 Glu Ala Gly Ser Val Thr Ile Pro Arg Gly Gln Leu Lys Asn Leu Lys
 165 170 175
 Ala Ser Tyr Thr Leu Thr Glu Pro Gln Leu Thr Ala Pro Leu Lys Lys
 180 185 190
 Gly Gln Val Val Gly Thr Ile Asp Phe Gln Leu Asn Gly Lys Ser Ile
 195 200 205
 Glu Gln Arg Pro Leu Val Val Met Glu Ala Val Glu Glu Gly Gly Phe
 210 215 220
 Phe Ser Arg Ile Trp Asp Phe Val Leu Met Lys Phe His Gly Trp Phe
 225 230 235 240
 Gly Ser Trp Phe Ser
 245

<210> 6757

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 6757

Arg Asp Cys Met Ile Asn Arg Ser Ser Ser Gly Asn Arg Leu Gly Arg
 1 5 10 15
 Gln Ala Leu Leu Phe Pro Leu Cys Leu Val Leu Tyr Glu Phe Ser Thr
 20 25 30
 Tyr Ile Gly Asn Asp Met Ile Gln Pro Gly Met Leu Ala Val Val Glu
 35 40 45
 Gln Tyr Asn Ala Gly Ile Glu Trp Val Pro Thr Ser Met Thr Ala Tyr
 50 55 60
 Leu Ala Gly Gly Met Phe Leu Gln Trp Leu Leu Gly Pro Leu Ser Asp
 65 70 75 80
 Arg Ile Gly Arg Arg Pro Val Met Leu Thr Gly Val Val Trp Phe Ile
 85 90 95
 Val Thr Cys Leu Ala Thr Leu Leu Ala Gln Asn Ile Glu Gln Phe Thr
 100 105 110
 Leu Leu Arg Phe Leu Gln Gly Val Ser Leu Cys Phe Ile Gly Ala Val
 115 120 125
 Gly Tyr Ala Ala Ile Gln Glu Ser Phe Glu Glu Ala Val Cys Ile Lys
 130 135 140
 Ile Thr Ala Leu Met Ala Asn Val Ala Leu Ile Ala Pro Leu Leu Gly
 145 150 155 160
 Pro Leu Val Gly Ala Ala Trp Val His Val Ala Pro Trp Glu Gly Met
 165 170 175
 Phe Val Leu Phe Ala Ala Leu Ala Ala Ile Ser Phe Phe Gly Leu His
 180 185 190
 Arg Ala Met Pro Glu Thr Ala Thr Arg Leu Gly Glu Lys Leu Ser Leu
 195 200 205
 Lys Glu Leu Gly Arg Asp Tyr Lys Ala Val Leu Gln Asn Gly Arg Phe

210	215	220
Val Ala Gly Ala Leu Ala	Thr Gly Phe Val Ser	Leu Pro Leu Leu Ala
225	230	235
Trp Ile Ala Gln Ser Pro	Val Ile Ile Ile Ser	Gly Glu Gln Leu Ser
245	250	255
Ser Tyr Glu Tyr Gly	Leu Leu Gln Val Pro	Ile Phe Gly Ala Leu Ile
260	265	270
Ile Gly Asn Leu Val Leu	Ala Arg Leu Thr Ser	Arg Arg Thr Val Arg
275	280	285
Ser Leu Ile Ile Met Gly	Gly Trp Pro Ile Ala	Ala Gly Leu Ile Ile
290	295	300
Ala Ala Val Ala Thr Val	Ala Ser Ser His Ala	Tyr Leu Trp Met Thr
305	310	315
Ala Gly Leu Ser Ile Tyr	Ala Phe Gly Ile Gly	Val Ala Asn Ala Gly
325	330	335
Leu Val Arg Leu Thr Leu	Phe Ala Ser Glu Met	Ser Lys Gly Thr Val
340	345	350
Ser Ala Ala Met Gly Met	Leu Gln Met Leu Ile	Phe Thr Val Gly Ile
355	360	365
Glu Val Ser Lys His Ala	Tyr Ala Phe Gly Gly	Asn Gly Leu Phe Ser
370	375	380
Leu Phe Asn Leu Ala Asn	Gly Val Leu Trp Ile	Ala Leu Met Val Val
385	390	395
Phe Leu Lys Asp Lys Arg	Val Gly Asn Ala Leu	Gln Pro
405	410	

<210> 6758

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 6758

Gly Asn Tyr Met Ser Thr	Pro Ala His Leu Trp	Leu Glu Asp Glu Asn
1	5	10
Gly Ser Pro Ile Ile Gly	Ser Cys Met Met Pro	Thr Arg Leu Gly Ser
20	25	30
Ile Glu Leu Lys Ser Phe	Ser His Gly Val Thr	Ile Pro Ala Asp Pro
35	40	45
Ser Trp Gly Lys Leu Thr	Gly Thr Arg Val His	Arg Pro Ile Thr Ile
50	55	60
Val Lys Glu Phe Asp Gln	Thr Thr Pro Leu Leu	Tyr Arg Ala Val Cys
65	70	75
Glu Gly Arg Val Met Lys	Lys Gly Ile Ile Lys	Met Tyr Arg Ile Leu
85	90	95
Glu Ser Gly Ile Glu Ala	Glu Tyr Phe Asn Ile	Val Met Glu Asn Val
100	105	110
Lys Phe Thr Thr Val Ala	Pro Phe Met Thr Pro	Asn Gly Met Ser Ser
115	120	125
Thr His Leu Glu Thr Leu	Glu Leu Arg Tyr Glu	Ala Ile Ser Trp Lys
130	135	140
Tyr Thr Glu Gly Asn Ile	Ile Tyr Arg Asp Thr	Trp Asn Asp Arg Cys
145	150	155
Cys Ala		160

<210> 6759

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 6759

Lys Met Phe Leu Ala Gly Ala Ile Phe Leu Phe Thr Leu Val Leu Val
 1 5 10 15
 Ile Trp Gln Pro Lys Gly Leu Ser Ile Gly Trp Ser Ala Thr Ile Gly
 20 25 30
 Ala Val Leu Ala Leu Met Ser Gly Val Ile His Ile Asn Asp Ile Pro
 35 40 45
 Val Val Trp Asn Ile Val Trp Asn Ala Thr Ala Thr Phe Ile Ala Val
 50 55 60
 Ile Ile Ile Ser Leu Leu Leu Asp Glu Ser Gly Phe Phe Glu Trp Ala
 65 70 75 80
 Ala Leu His Val Ala Arg Trp Gly Asn Gly Arg Gly Arg Leu Leu Phe
 85 90 95
 Thr Trp Ile Val Leu Leu Gly Ala Ala Val Ala Ala Leu Phe Ala Asn
 100 105 110
 Asp Gly Ala Ala Leu Ile Leu Trp Pro Ile Val Ile Ala Met Leu Leu
 115 120 125
 Ala Leu Gly Phe Ser Lys Gln Ala Thr Leu Ala Phe Val Met Ala Ala
 130 135 140
 Gly Phe Ile Ala Asp Thr Ala Ser Leu Pro Leu Ile Val Ser Asn Leu
 145 150 155 160
 Val Asn Ile Val Ser Ala Asp Phe Phe Lys Leu Gly Phe Ser Glu Tyr
 165 170 175
 Ala Ser Val Met Ile Pro Val Asp Ile Ala Ala Ile Ala Thr Leu
 180 185 190
 Val Met Leu His Leu Phe Phe Arg Asn Glu Ile Pro Pro Glu Tyr Asp
 195 200 205
 Leu Ala Lys Leu Arg Glu Pro Ala Leu Ala Ile His Asp Leu Pro Thr
 210 215 220
 Phe Arg Thr Gly Trp Ile Val Leu Leu Leu Leu Val Gly Phe Phe
 225 230 235 240
 Val Leu Glu Pro Leu Gly Ile Pro Val Ser Ala Ile Ala Thr Thr Gly
 245 250 255
 Ala Leu Ile Leu Phe Ala Val Ala Lys Arg Gly His Ala Ile Asn Thr
 260 265 270
 Gly Lys Val Leu Arg Gly Ala Pro Trp Gln Ile Val Ile Phe Ser Leu
 275 280 285
 Gly Met Tyr Leu Val Val Tyr Gly Leu Arg Asn Ala Gly Leu Thr Glu
 290 295 300
 Ser Leu Ser Gly Val Leu Asp Tyr Leu Ala Gly Tyr Gly Leu Trp Val
 305 310 315 320
 Thr Thr Leu Gly Thr Gly Phe Ile Thr Ala Phe Leu Ser Ser Ile Met
 325 330 335
 Asn Asn Met Pro Thr Val Leu Ile Gly Ala Leu Ser Ile Glu Gly Ser
 340 345 350
 Ala Ala Thr Gly Leu Val Lys Glu Ala Met Ile Tyr Ala Asn Val Ile
 355 360 365
 Gly Cys Asp Leu Gly Pro Lys Ile Thr Pro Ile Gly Ser Leu Ala Thr
 370 375 380
 Leu Leu Trp Leu His Val Leu Ala Gln Lys Asn Met Thr Ile Thr Trp
 385 390 395 400
 Gly Tyr Tyr Phe Arg Thr Gly Ile Ile Met Thr Leu Pro Val Leu Phe
 405 410 415
 Val Thr Leu Ala Ala Leu Ala Leu Arg Leu Ser Phe Thr Leu
 420 425 430

<210> 6760

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6760

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Val Thr Asp Met Ser His Ile Thr Ile Tyr His Asn Pro Ala Cys Gly
1      5      10
Thr Ser Arg Asn Thr Leu Glu Met Ile Arg Asn Ser Gly Thr Glu Pro
20      25      30
Glu Ile Ile Leu Tyr Leu Glu Asn Pro Pro Ser Arg Asp Glu Leu Thr
35      40      45
Arg Leu Ile Ala Asp Met Gly Ile Ser Ile Gly Asp Leu Leu Arg Lys
50      55      60
Asn Val Glu Pro Tyr Glu Gln Leu Gly Leu Ser Gln Gly His Phe Thr
65      70      75      80
Asp Asp Gln Leu Ile Asp Phe Met Leu Gln Tyr Pro Ile Leu Ile Asn
85      90      95
Arg Pro Ile Val Thr Pro Leu Gly Thr Arg Leu Cys Arg Pro Ser
100      105      110
Glu Val Val Leu Asp Ile Leu Pro Asp Ala Gln Lys Gly Ala Phe Thr
115      120      125
Lys Glu Asp Gly Glu Val Val Val Asp Ala Asn Gly Lys Lys Ile Ser
130      135      140
Arg Gln
145

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<210> 6761

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 6761

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Ile Pro Cys Ser Ala Met Val Ser Ser Val Ala Trp Ser Ile Phe Ser
1      5      10
Arg Arg Leu Gly Ser Phe Gly Gly Leu Leu Ile Lys Ser Ser Ser Ser
20      25      30
Leu Cys Thr Asn Val His Lys Val Ala Ser Val Val Ala Ile Val Val
35      40      45
Leu Leu Val Leu Ile Pro Met Thr Leu Thr Ser Pro Arg Lys Ala Leu
50      55      60
His Leu Arg Met Trp Ala Leu Phe Met Phe Phe Ile Pro Gly Leu
65      70      75      80
Leu Met Ala Ser Trp Ala Thr Arg Thr Pro Ala Ile Arg Asp Thr Leu
85      90      95
Ser Val Ser Thr Ala Glu Met Gly Ile Val Leu Phe Gly Leu Ser Ile
100      105      110
Gly Ser Met Ser Gly Ile Leu Cys Ser Ala Trp Leu Val Lys Arg Phe
115      120      125
Gly Thr Arg Ala Val Ile Arg Thr Thr Met Cys Cys Ala Val Val Gly
130      135      140
Met Leu Gly Leu Ser Val Ala Leu Trp Phe Ala Ser Pro Leu Met Phe
145      150      155      160
Ala Leu Gly Leu Met Val Phe Gly Gly Ser Phe Gly Ala Ala Glu Val
165      170      175
Ala Ile Asn Val Glu Gly Ala Ala Val Glu Gln Ala Met Asn Lys Thr
180      185      190
Val Leu Pro Met Met His Gly Phe Tyr Ser Leu Gly Thr Leu Ala Gly
195      200      205
Ala Gly Val Gly Met Ala Leu Thr Ala Leu Gly Ile Ala Ala Asn Val
210      215      220
His Ile Leu Leu Ala Ala Leu Val Cys Ile Ile Pro Ile Leu Thr Gly
225      230      235      240
Ile Arg Ala Ile Pro Ala Gly Thr Gly Gln His Ala Thr Asp Glu Gln
245      250      255
Lys Ser Ala Glu Lys Gly Leu Pro Phe Tyr Arg Asp Phe Gln Leu Met
260      265      270

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Leu Ile Gly Val Val Val Leu Ala Met Ala Phe Ala Glu Gly Ser Ala
 275 280
 Asn Asp Trp Leu Pro Leu Leu Met Val Asp Gly His Gly Phe Ser Pro
 290 295 300
 Thr Ser Gly Ser Leu Ile Tyr Ala Gly Phe Thr Leu Gly Met Thr Val
 305 310 315
 Gly Arg Phe Thr Gly Gly Trp Phe Ile Asp Arg Tyr Ser Arg Val Ala
 325 330 335
 Val Val Arg Ala Ser Ala Leu Leu Gly Gly Leu Gly Ile Ala Met Ile
 340 345 350
 Ile Phe Val Asp Val Asp Trp Ile Ala Gly Val Ser Val Ile Leu Trp
 355 360 365
 Gly Leu Gly Ala Ser Leu Gly Phe Pro Leu Thr Ile Ser Ala Ala Ser
 370 375 380
 Asp Thr Gly Pro Asp Ala Pro Thr Arg Val Ser Val Val Ala Thr Thr
 385 390 395 400
 Gly Tyr Leu Ala Phe Leu Val Gly Pro Leu Leu Gly Phe Leu Gly
 405 410 415
 Glu His Tyr Gly Leu Arg Ser Ala Met Leu Val Val Leu Gly Leu Val
 420 425 430
 Ile Ile Ala Ala Leu Val Ala Arg Ala Val Ala Lys Pro Glu Ala Glu
 435 440 445
 Thr Thr Ser Met Glu Lys Gly Tyr Glu Arg
 450 455

<210> 6762

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 6762

Trp Asp Ser Gly Arg Ser Cys Ala Ala Arg Ile Phe Ser Leu Thr Thr
 1 5 10 15
 Cys Gly Pro Gly Gly Gly Ser Gly Phe Pro Arg Cys Trp Phe Thr Gly
 20 25 30
 Trp Phe Pro Gly Leu Leu Lys Ser Asn Glu Ile Met Leu Glu Asn
 35 40 45
 Leu Asn Tyr Glu Leu Phe Tyr Leu Leu Asn Ala Thr Pro Ser Ser Pro
 50 55 60
 Glu Trp Met Ile Asp Leu Ala Thr Phe Ile Ala Lys Asp Val Ile Ser
 65 70 75 80
 Ile Val Pro Ala Leu Ala Val Ile Leu Trp Leu Trp Gly Pro Arg Thr
 85 90 95
 Gln Val Thr Ala Gln Arg His Leu Val Ile Lys Met Ala Met Ala Ile
 100 105 110
 Gly Val Ser Val Leu Ala Ser Tyr Val Leu Gly His Ala Phe Pro His
 115 120 125
 Asp Arg Pro Phe Val Asp Arg Val Gly Tyr Asn Phe Leu His His Ala
 130 135 140
 Pro Asp Asp Ser Phe Pro Ser Asp His Gly Thr Val Ile Phe Thr Phe
 145 150 155 160
 Ala Leu Ala Phe Leu Phe Trp His Arg Leu Trp Ser Gly Val Val Leu
 165 170 175
 Met Gly Val Ala Val Ala Ile Ala Trp Ser Arg Val Tyr Leu Gly Val
 180 185 190
 His Trp Pro Leu Asp Met Val Gly Gly Phe Leu Val Gly Leu Met Gly
 195 200 205
 Cys Val Ser Ala Ala Ile Leu Trp Ser Leu Phe Gly Pro Ala Leu Tyr
 210 215 220
 Arg Gly Leu Ser Gln Ala Tyr Arg Val Leu Phe Ala Leu Pro Ile Arg
 225 230 235 240

Lys Gly Trp Ile Arg Asp
245

<210> 6763

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 6763

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Arg Val Leu Gln Ser Leu Phe Tyr Pro Ser Cys Tyr Leu Leu Leu Leu
1      5      10      15
Ser Phe Thr Thr Ile Lys Tyr Asp Leu Met His Met Lys Gln Asn Ile
      20      25      30
Gln Asp Asp Arg Met Leu His Pro Leu Gln Leu Phe Lys Thr Leu Ser
      35      40      45
Asp Glu Thr Arg Leu Ser Ile Val Met Leu Leu Arg Glu Ala Gly Glu
      50      55      60
Leu Cys Val Cys Asp Leu Cys Ser Ala Thr Asn Glu Pro Gln Pro Lys
      65      70      75      80
Val Ser Arg His Met Ala Leu Leu Arg Glu Ala Gly Leu Val Ile Asp
      85      90      95
Arg Arg Glu Gly Lys Trp Ile Tyr Tyr Arg Leu Ser Pro Asn Met Pro
      100      105      110
Ala Trp Ala Ala Thr Val Ile Asp Asn Ser Trp Asn Cys Leu Arg Glu
      115      120      125
Glu Thr Arg Met Lys Leu Lys Asn Arg Leu Pro Gly Ser Cys
      130      135      140

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<210> 6764

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6764

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Ser Leu Leu Pro Pro Trp Trp Arg Glu Arg Trp Gln Asn Arg Lys Gln
1      5      10      15
Lys Gln Arg Gln Trp Arg Arg Asp Met Ser Val Lys Leu Ile Ala Val
      20      25      30
Asp Met Asp Gly Ser Phe Leu Ser Asp Ala Lys Thr Tyr Asn Arg Ala
      35      40      45
Arg Phe Leu Ala Gln Tyr Ala Arg Met Lys Ala Gln Gly Ile Arg Phe
      50      55      60
Val Val Ala Ser Gly Asn Gln Tyr Tyr Gln Leu Ile Ser Phe Phe Pro
      65      70      75      80
Glu Ile Ala His Glu Ile Ala Phe Val Ala Glu Asn Gly Gly Trp Val
      85      90      95
Val Asp Ala Gly Glu Asp Val Phe Asn Gly Glu Leu Ser Lys Glu His
      100      105      110
Phe Leu Thr Val Ala Thr Leu Leu Asn Asp Val Pro Gly Ile Glu Ile
      115      120      125
Ile Ala Cys Gly Lys Asn Ser Ala Tyr Thr Leu Lys Thr Tyr Asn Asp
      130      135      140
Leu Phe Lys Glu Ile Ala Ala Lys Tyr Tyr His Arg Leu Glu Ser Val
      145      150      155      160
Ser Ser Phe Asp Asn Leu Asn Asp Ile Phe Phe Lys Phe Gly Leu Asn
      165      170      175
Val Ser Asp Asp Glu Ile Pro Arg Ile Gln Ala Leu Leu His Glu Lys
      180      185      190
Leu Gly Asp Ile Met Val Pro Val Thr Thr Gly His Gly Ser Ile Asp
      195      200      205
Leu Ile Ile Pro Gly Val His Lys Ala Asn Gly Leu Arg Ile Leu Gln

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210	215	220
Ala Arg Trp Gly Ile Glu Asp Ser Glu Val Val Ala Phe Gly Asp Ser		
225	230	235
Gly Asn Asp Val Glu Met Leu Arg Gln Ala Gly Phe Gly Phe Ala Met		240
	245	250
Ala Asn Ala Arg Pro His Ile Lys Ala Val Ala Arg Tyr Glu Ala Pro		255
	260	265
Asn Asn Asn Asp Glu Gly Val Leu Asp Val Ile Asp Arg Val Leu Asp		270
	275	280
Gly Glu Ala Pro Phe Asn		285
290	295	

<210> 6765

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 6765

Ala Pro Ala Leu Arg Gly Leu Thr Phe Leu Ala Arg Gly Ser Met Glu	
1	5
Thr Arg Arg Asp Asp Arg Ile Ala Gln Leu Leu Gln Ala Leu Lys Arg	10
	20
Ser Asp Lys Leu His Leu Lys Glu Ala Ala Thr Leu Leu Gly Val Ser	25
	30
Glu Met Thr Ile Arg Arg Asp Leu Asn Asn Asp Ser Ala Pro Val Val	35
	40
Leu Leu Gly Gly Tyr Ile Val Leu Glu Pro Arg Ser Ala Ser His Tyr	45
65	50
Leu Leu Ser Asp Gln Lys Thr Arg Leu Val Glu Lys Arg Lys Ala	55
	60
Ala Arg Leu Ala Ala Ser Leu Val Gln Pro His Gln Thr Leu Phe Phe	65
	70
Asp Cys Gly Thr Thr Thr Pro Trp Ile Ile Glu Ala Ile Asn Ser Thr	75
	80
Val Pro Phe Thr Ala Val Cys Tyr Ser Leu Asn Thr Phe Leu Ala Leu	85
	90
Gln Glu Lys Pro Ala Cys Arg Val Ile Leu Cys Gly Gly Glu Phe His	95
145	100
Ala Ser Asn Ala Ile Phe Lys Pro Leu Asn Ile Gln Asp Thr Leu Ser	105
	110
Asn Val Cys Pro Asp Ile Ala Phe Tyr Ser Ala Ala Gly Val Asn Val	115
	120
Lys Gln Gly Ala Thr Cys Phe Asn Leu Glu Glu Leu Pro Val Lys Gln	125
	130
Trp Ala Leu Asn Ala Ala Gln Gln His Val Leu Val Val Asp His Ser	135
	140
Lys Phe Gly Lys Val Arg Pro Ala Arg Met Gly Glu Leu Ser Arg Phe	145
225	150
Asp Ala Ile Val Ser Asp Cys Arg Pro Asp Asp Glu Leu Val Ala Tyr	155
	160
Ala Lys Ala Gln Gln Val Lys Leu Met Tyr	165
	170
	175
	180
	185
	190
	195
	200
	205
	210
	215
	220
	225
	230
	235
	240
	245
	250
	255
	260
	265

<210> 6766

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 6766

Gly Phe Thr Glu Lys Asp Lys Val Met Arg His Arg Lys Ser Gly Arg	
1	5
	10
	15

Gln Leu Asn Arg Asn Ser Ser His Arg Gln Ala Met Phe Arg Asn Met
 20 25 30
 Ala Gly Ser Leu Val Arg His Glu Ile Ile Lys Thr Thr Leu Pro Lys
 35 40 45
 Ala Lys Glu Leu Arg Arg Val Val Glu Pro Leu Ile Thr Leu Ala Lys
 50 55 60
 Thr Asp Ser Val Ala Asn Arg Arg Leu Ala Phe Ala Arg Thr Arg Asp
 65 70 75 80
 Asn Glu Ile Val Ala Lys Leu Phe Asn Glu Leu Gly Pro Arg Phe Ala
 85 90 95
 Ser Arg Ala Gly Tyr Thr Arg Ile Leu Lys Cys Gly Phe Arg Ala
 100 105 110
 Gly Asp Asn Ala Pro Met Ala Tyr Ile Glu Leu Val Asp Arg Ser Glu
 115 120 125
 Lys Ala Glu Ala Ala Glu
 130 135

<210> 6767

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6767

Gly Gly His Ala Met Phe Asp Val Leu Met Tyr Leu Phe Glu Thr Tyr
 1 5 10 15
 Ile His Asn Glu Ala Glu Met Gln Val Asp Gln Asp Lys Leu Thr Arg
 20 25 30
 Asp Leu Thr Asp Ala Gly Phe Glu Arg Glu Asp Ile Tyr Asn Ala Leu
 35 40 45
 Met Trp Leu Asp Lys Leu Ala Asp Tyr Gln Asp Gly Leu Ala Glu Pro
 50 55 60
 Met Gln Leu Ala Ser Asp Pro Leu Ser Val Arg Ile Tyr Thr Ala Glu
 65 70 75 80
 Glu Cys Glu Arg Leu Asp Ala Ser Cys Arg Gly Phe Ile Leu Phe Leu
 85 90 95
 Glu Gln Ile Gln Val Leu Asn Leu Glu Thr Arg Glu Met Val Ile Glu
 100 105 110
 Arg Val Met Ala Leu Asp Thr Ala Glu Phe Glu Leu Glu Asp Leu Lys
 115 120 125
 Trp Val Ile Leu Met Val Leu Phe Asn Ile Pro Gly Cys Glu Asn Ala
 130 135 140
 Tyr Gln Gln Met Glu Glu Leu Leu Phe Glu Val Asn Glu Gly Met Leu
 145 150 155 160
 His

<210> 6768

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 6768

Asn Ala Phe Ala Pro Val Asn Asn Val Glu Ser Arg Phe Arg Arg Ile
 1 5 10 15
 Lys Ser Val Asn Asn Asn Leu Pro Ser Gly Ser Ile Ala Gln Ala Val
 20 25 30
 Glu Ile Leu Lys Lys Glu Glu Val Ile Ala Tyr Pro Thr Glu Ala Val
 35 40 45
 Phe Gly Val Gly Cys Asp Pro Asp Ser Glu Val Ala Val Asn Arg Leu
 50 55 60
 Leu Ala Leu Lys Gln Arg Pro Val Glu Lys Gly Leu Ile Leu Ile Ala

```

65          70          75          80
Ala Asn Tyr Ala Gln Leu Lys Pro Tyr Ile Asp Asp Ser Met Leu Thr
      85
Pro Ala Gln Arg Glu Thr Ile Phe Ser Ala Trp Pro Gly Pro Val Thr
      100
Phe Val Phe Pro Ala Gln Pro Thr Thr Pro Arg Trp Leu Thr Gly Arg
      115
Phe Asp Ser Leu Ala Val Arg Val Thr Asp His Pro Leu Val Val Glu
      130
Leu Cys Gln Ala Phe Gly Lys Pro Leu Val Ser Thr Ser Ala Asn Leu
      145
Thr Gly Leu Pro Pro Cys Arg Thr Thr Glu Glu Val Leu Ala Gln Phe
      165
Gly Ser Asp Phe Pro Val Ala Val Gly Glu Thr Gly Gly Arg Leu Asn
      180
Pro Ser Glu Ile Arg Asp Ala Leu Thr Gly Glu Arg Phe Arg Gln Gly
      195
                                200
                                205

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<210> 6769
<211> 122
<212> PRT
<213> Enterobacter cloacae

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<400> 6769
Glu Cys Ile Val Ala Arg Ile Ala Gly Ile Asn Ile Pro Asp Gln Lys
1          5          10          15
His Ala Val Ile Ala Leu Thr Ser Ile Tyr Gly Val Gly Lys Thr Arg
      20
Ser Lys Ala Ile Leu Ala Ala Ala Gly Ile Ala Glu Asp Val Lys Ile
      35
Ser Glu Leu Ser Glu Glu Gln Ile Asp Thr Leu Arg Asp Glu Val Ala
      50
Lys Phe Val Val Glu Gly Asp Leu Arg Arg Glu Ile Ser Met Ser Ile
      65
Lys Arg Leu Met Asp Leu Gly Cys Tyr Arg Gly Leu Arg His Arg Arg
      85
Gly Leu Pro Val Arg Gly Gln Arg Thr Lys Thr Asn Ala Arg Thr Arg
      100
Lys Gly Pro Arg Lys Pro Ile Lys Lys
      115
                                120

```

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<210> 6770
<211> 208
<212> PRT
<213> Enterobacter cloacae

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```

<400> 6770
Lys Met Ala Arg Tyr Leu Gly Pro Lys Leu Lys Leu Ser Arg Arg Glu
1          5          10          15
Gly Thr Asp Leu Phe Leu Lys Ser Gly Val Arg Ala Ile Asp Thr Lys
      20
Cys Lys Ile Glu Gln Ala Pro Gly Gln His Gly Ala Arg Lys Pro Arg
      35
Leu Ser Asp Tyr Gly Val Gln Leu Arg Glu Lys Gln Lys Val Arg Arg
      50
Ile Tyr Gly Val Leu Glu Arg Gln Phe Arg Asn Tyr Tyr Lys Glu Ala
      65
Ala Arg Leu Lys Gly Asn Thr Gly Glu Asn Leu Leu Ala Leu Leu Glu
      85
                                90
                                95

```

Gly Arg Leu Asp Asn Val Val Tyr Arg Met Gly Phe Gly Ala Thr Arg
 100 105 110
 Ala Glu Ser Arg Gln Leu Val Ser His Lys Ala Ile Met Val Asn Gly
 115 120 125
 Arg Val Val Asn Ile Ala Ser Tyr Gln Val Lys Ala Asn Asp Val Val
 130 135 140
 Ser Ile Arg Glu Lys Ala Lys Lys Gln Ser Arg Val Lys Ala Ala Leu
 145 150 155 160
 Glu Leu Ala Glu Gln Arg Glu Lys Pro Thr Trp Leu Glu Val Asp Ala
 165 170 175
 Gly Lys Met Glu Ser Thr Phe Lys Arg Gln Pro Glu Arg Pro Asp Leu
 180 185 190
 Ser Ala Asp Ile Asn Glu His Leu Ile Val Glu Leu Tyr Ser Lys
 195 200 205

<210> 6771

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6771

Lys Val Asn Thr Lys Asn Lys Gln Gly Val Ala Met Tyr Arg Ile Gly
 5 10 15
 Glu Leu Ala Lys Leu Ala Asn Val Thr Pro Asp Thr Ile Arg Tyr Tyr
 20 25 30
 Glu Lys Gln Gln Met Ile Asp His Glu Val Arg Thr Glu Gly Gly Phe
 35 40 45
 Arg Leu Tyr Thr Asp Asn Asp Leu Gln Arg Leu Arg Phe Ile Arg Tyr
 50 55 60
 Ala Arg Gln Leu Gly Phe Thr Leu Glu Ser Ile Arg Glu Leu Leu Ser
 65 70 75 80
 Ile Arg Ile Asp Pro Glu His His Thr Cys Gln Glu Ser Lys Ser Ile
 85 90 95
 Val Gln Ala Arg Leu Asp Glu Val Glu Gly Arg Ile Gln Glu Leu Gln
 100 105 110
 Ala Met Gln Arg Ser Leu Gln Arg Leu Asn Asp Pro Cys Cys Gly Thr
 115 120 125
 Ala His Ser Ser Val Tyr Cys Ser Ile Leu Glu Ala Leu Glu Gln Gly
 130 135 140
 Ala Ser Ser Glu Ala Gln Gly Cys
 145 150

<210> 6772

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 6772

Leu Cys Ser Gly Glu Met Met Ser Arg Tyr Gln His Thr Lys Gly His
 5 10 15
 Ile Lys Asp Asn Ala Ile Glu Ala Leu Leu His Asp Pro Leu Phe Arg
 20 25 30
 Gln Arg Val Glu Lys Asn Lys Lys Gly Lys Gly Ser Tyr Leu Arg Lys
 35 40 45
 Gly Lys His Ala Gln Arg Gly Lys Trp Glu Ala Ser Gly Lys Gln Ala
 50 55 60
 Asn Arg Phe Phe Thr Thr Gly Leu Ser Val Ser Val Ser
 65 70 75

<210> 6773

<211> 102

<212> PRT

<213> *Enterobacter cloacae*

<400> 6773

```

Pro Ala Asn Val Phe Ala Arg Asp Asn Val Met Glu Thr Tyr Ala Val
1      5      10      15
Phe Gly Asn Pro Ile Ala His Ser Lys Ser Pro Leu Ile His Gln Leu
      20      25      30
Phe Ala Glu Gln Leu Gln Ile Asp His Pro Tyr Gly Arg Val Leu Ala
      35      40      45
Pro Val Asp Ala Phe Leu Pro Thr Leu Asn Ser Phe Phe Val Ala Gly
      50      55      60
Gly Lys Gly Ala Asn Val Thr Val Pro Phe Lys Glu Glu Ala Phe Gly
65      70      75      80
Arg Ala Asp Glu Leu Thr Glu Arg Ala Cys Leu Leu Pro Arg Gly Leu
      85      90      95
Ala Gly Pro Leu Ile Glu
100

```

<210> 6774

<211> 131

<212> PRT

<213> *Enterobacter cloacae*

<400> 6774

```

Ile Met Ala Lys Ala Pro Val Arg Ala Arg Lys Arg Val Arg Lys Gln
1      5      10      15
Val Ser Asp Gly Val Ala His Ile His Ala Ser Phe Asn Asn Thr Ile
      20      25      30
Val Thr Ile Thr Asp Arg Gln Gly Asn Ala Leu Gly Trp Ala Thr Ala
      35      40      45
Gly Gly Ser Gly Phe Arg Gly Ser Arg Lys Ser Thr Pro Phe Ala Ala
      50      55      60
Gln Val Ala Ala Glu Arg Cys Ala Glu Ala Val Lys Glu Tyr Gly Ile
65      70      75      80
Lys Asn Leu Glu Val Met Val Lys Gly Pro Gly Pro Gly Arg Glu Ser
      85      90      95
Thr Val Arg Ala Leu Asn Ala Ala Gly Phe Arg Ile Thr Asn Ile Thr
      100      105      110
Asp Val Thr Pro Ile Pro His Asn Gly Cys Arg Pro Pro Lys Lys Arg
      115      120      125
Arg Val
130

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<210> 6775

<211> 336

<212> PRT

<213> *Enterobacter cloacae*

<400> 6775

```

Tyr Gln Arg Glu Asp Thr Met Gln Gly Ser Val Thr Glu Phe Leu Lys
1      5      10      15
Pro Arg Leu Val Asp Ile Glu Gln Val Ser Ser Thr His Ala Lys Val
      20      25      30
Thr Leu Glu Pro Leu Glu Arg Gly Phe Gly His Thr Leu Gly Asn Ala
      35      40      45
Leu Arg Arg Ile Leu Leu Ser Ser Met Pro Gly Cys Ala Val Thr Glu
      50      55      60
Val Glu Ile Asp Gly Val Leu His Glu Tyr Ser Thr Lys Glu Ser Val
65      70      75      80
Gln Glu Asp Ile Leu Glu Ile Leu Leu Asn Leu Lys Gly Leu Ala Val

```

```

      85      90      95
Arg Val Gln Gly Lys Asp Glu Val Ile Leu Thr Leu Asn Lys Ser Gly
      100      105      110
Ile Gly Pro Val Thr Ala Ala Asp Ile Thr His Asp Gly Asp Val Glu
      115      120      125
Ile Val Lys Pro Gln His Val Ile Cys His Leu Thr Asp Glu Asn Ala
      130      135      140
Ala Ile Ser Met Arg Ile Lys Val Gln Arg Gly Arg Gly Tyr Val Pro
      145      150      155
Ala Ser Ala Arg Ile His Ser Glu Glu Asp Glu Arg Pro Ile Gly Arg
      165      170      175
Leu Leu Val Asp Ala Cys Tyr Ser Pro Val Glu Arg Ile Ala Tyr Asn
      180      185      190
Val Glu Ala Ala Arg Val Glu Gln Arg Thr Asp Leu Asp Lys Leu Val
      195      200      205
Ile Glu Met Glu Thr Asn Gly Thr Ile Asp Pro Glu Glu Ala Ile Arg
      210      215      220
Arg Ala Ala Thr Ile Leu Ala Glu Gln Leu Glu Ala Phe Val Asp Leu
      225      230      235
Arg Asp Val Arg Gln Pro Glu Val Lys Glu Lys Pro Glu Phe Asp
      245      250      255
Pro Ile Leu Leu Arg Pro Val Asp Asp Leu Glu Leu Thr Val Arg Ser
      260      265      270
Ala Asn Cys Leu Lys Ala Glu Ala Ile His Tyr Ile Gly Asp Leu Val
      275      280      285
Gln Arg Thr Glu Val Glu Leu Leu Lys Thr Pro Asn Leu Gly Lys Lys
      290      295      300
Ser Leu Thr Glu Ile Lys Asp Val Leu Ala Ser Arg Gly Leu Ser Leu
      305      310      315
Gly Met Arg Leu Glu Asn Trp Pro Pro Ala Ser Ile Ala Asp Glu
      325      330      335

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<210> 6776

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 6776

```

Ser Phe Arg Glu Ser Arg Ser Cys Cys Arg Val Ile Cys Ser Asn Val
1      5      10      15
Lys Lys Pro Ala Ser Ala Gly Phe Phe Ile Ser Ala Glu Ser Pro Leu
      20      25      30
Ile Tyr Asn Val Cys Ile Phe Ser Ala His Pro Leu Glu Phe Ile Met
      35      40      45
Trp Leu Leu Asp Gln Trp Ser Glu Arg His Ile Cys Asp Ala Gln Asn
      50      55      60
Lys Gly Glu Phe Glu Asn Leu Pro Gly Ser Gly Glu Pro Leu Ile Leu
      65      70      75
Asp Asp Asp Ser His Ile Pro Pro Glu Leu Arg Ala Gly Tyr Arg Leu
      85      90      95
Leu Lys Asn Ala Gly Cys Leu Pro Pro Glu Leu Gln Gln Arg Asn Glu
      100      105      110
Ala Val Glu Leu Ala Asp Leu Leu Lys Gly Ile His Lys Asn Asp Pro
      115      120      125
Arg Tyr Ser Glu Ile Ser Arg Arg Leu Ala Leu Ile Glu Leu Lys Leu
      130      135      140
Arg Gln Thr Gly Met Asn Thr Asp Phe Leu His Gly Glu Tyr Ser Glu
      145      150      155
Arg Leu Ile Gln Lys Ile Asn Lys Glu
      165      170

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<210> 6777

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 6777

```

Thr Asn Pro Arg Ser Ile Asp Ser Ile Ser Asp Gln Ser Gln Arg Leu
1      5      10      15
Leu Arg Leu Leu Met Ala Gly Lys Arg Met Thr Ser Thr Glu Ile Trp
20      25      30
Leu Arg Leu Ile Asn Ile Gly Ser Leu Tyr Gly Asp Ala Met Leu Glu
35      40      45
Ile Ala Gln Arg Leu Leu Arg Gln Ala Thr Val Asp Ala Glu Ala Val
50      55      60
Asn Ala Ala Gly Leu Ser Pro Lys His Ala Val Lys Phe Phe Ser Phe
65      70      75      80
Ser Glu Ser Glu Leu Glu Arg Ser Leu Glu Trp Leu Glu His Thr Asp
85      90      95
Asn His Leu Leu Thr Ala Asp Asp Pro Arg Phe Pro Pro Leu Leu Arg
100     105     110
Ser Ile Pro Asp Phe Pro Gly Ala Leu Phe Val Arg Gly Arg Val Asp
115     120     125
Val Leu Asn Ser Met Gln Leu Ala Val Val Gly Ser Arg Ala Pro Ser
130     135     140
Trp Tyr Gly Glu Arg Trp Gly Lys Met Leu Ser Glu Gln Leu Ser Gln
145     150     155     160
Cys Gly Phe Thr Ile Thr Ser Gly Leu Ala Cys Gly Ile Asp Gly Val
165     170     175
Ala His His Ala Ala Leu Ser Ala Lys Gly Arg Ser Val Ala Val Leu
180     185     190
Gly Asn Gly Leu Phe Ser Leu Tyr Pro Arg Arg His His Ile Leu Ala
195     200     205
Glu Gln Leu Ile Ala Ser Glu Gly Ala Ile Val Ser Glu Phe Ser Leu
210     215     220
Ser Thr Ser Pro Arg Pro Gly Asn Phe Pro Arg Arg Asn Arg Ile Ile
225     230     235     240
Ser Gly Leu Ser Gln Gly Val Leu Val Val Glu Ala Ala Ile Arg Ser
245     250     255
Gly Ser Leu Val Thr Ala Arg Cys Ala Leu Glu Gln Gly Arg Glu Val
260     265     270
Phe Ala Leu Pro Gly Pro Leu Gly Asn Pro Gly Cys Glu Gly Pro His
275     280     285
Trp Leu Ile Lys Gln Gly Ala Thr Leu Val Thr Cys Lys Glu Asp Ile
290     295     300
Leu Glu Asn Leu Gln Tyr Gly Leu His Trp Leu Gln Asp Asp Leu Gln
305     310     315     320
Lys Arg His Ile Ser Ser Asp Gln Glu Ala Val Ala Leu Pro Phe Pro
325     330     335
Lys Leu Leu Ala Asn Val Gly Asp Glu Val Thr Pro Val Asp Val Val
340     345     350
Ala Glu Arg Ala Gly Gln Pro Val Pro Val Thr Val Ala Gln Leu Leu
355     360     365
Glu Leu Glu Leu Ala Gly Trp Ile Ala Ala Val Pro Gly Gly Tyr Val
370     375     380
Arg Leu Arg Arg Ala Cys His Val Arg Arg Thr Asp Val Phe Val
385     390     395     400

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<210> 6778

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6778

Arg Tyr Ala Ala Leu Ile Leu Cys Ala Ala Thr Arg Val Val Met Ala
 1 5 10 15
 Lys Ser Ala Leu Phe Thr Val His Lys Asn Glu Pro Cys Pro Gln Cys
 20 25 30
 Gly Ala Glu Leu Val Ile Arg Ser Gly Lys His Gly Pro Phe Leu Gly
 35 40 45
 Cys Ser His Tyr Pro Glu Cys Asp Tyr Val Arg Ser Leu Lys Ser Gln
 50 55 60
 Ala Asp Gly His Ile Val Lys Ile Leu Glu Gly Gln Leu Cys Pro Leu
 65 70 75 80
 Cys Gly Gly Glu Leu Ala Leu Arg Gln Gly Arg Phe Gly Met Phe Ile
 85 90 95
 Gly Cys Ser Arg Tyr Pro Glu Cys Asp His Thr Glu Gln Ile Asp Lys
 100 105 110
 Pro Asp Glu Thr Ala Ile Ala Cys Pro Gln Cys Gln Arg Gly Gln Leu
 115 120 125
 Val Gln Arg Arg Ser Arg Tyr Gly Lys Thr Phe His Ser Cys Asp Arg
 130 135 140
 Tyr Pro Glu Cys Gln Phe Val Ile Asn Phe Lys Pro Val Ala Gly Val
 145 150 155 160
 Cys His Asn Cys Asp Tyr Pro Leu Leu Ile Glu Lys Lys Thr Ala Gln
 165 170 175
 Gly Leu Lys Arg Phe Cys Ala Ser Lys Gln Cys Gly Lys Pro Val Ser
 180 185 190
 Ala Asp Gln Ile Ser Glu
 195

<210> 6779

<211> 441

<212> PRF

<213> *Enterobacter cloacae*

<400> 6779

Gly Pro Val Phe Pro Gly Ile Phe Ile Phe Thr Val Met Lys Arg Gln
 1 5 10 15
 Asn Leu Arg Thr Met Ala Ala Gln Ala Val Glu Gln Val Ile Glu Gln
 20 25 30
 Gly Gln Ser Leu Ser Asn Val Leu Pro Pro Leu Gln Gln Lys Val Ser
 35 40 45
 Asp Lys Asp Lys Ala Leu Leu Gln Glu Leu Cys Phe Gly Val Leu Arg
 50 55 60
 Thr Leu Ser Gln Leu Glu Trp Leu Ile Asn Lys Leu Met Ser Arg Pro
 65 70 75 80
 Met Ser Gly Lys Gln Arg Thr Val His Tyr Leu Ile Met Val Gly Phe
 85 90 95
 Tyr Gln Leu Leu His Thr Arg Ile Pro Pro His Ala Ala Leu Ala Glu
 100 105 110
 Thr Val Glu Gly Ala Val Ala Ile Lys Arg Pro Gln Leu Lys Gly Leu
 115 120 125
 Ile Asn Gly Val Leu Arg Gln Phe Gln Arg Gln Gln Asp Glu Leu Leu
 130 135 140
 Ala Glu Phe Ala Gln Ser Glu Ala Arg Phe Leu His Pro Glu Trp Leu
 145 150 155 160
 Leu Asn Arg Leu Lys Lys Ala Tyr Pro Gln Gln Trp Gln Asp Ile Val
 165 170 175
 Asp Ala Asn Asn Gln Arg Pro Pro Met Trp Leu Arg Val Asn Arg Asn
 180 185 190
 His His Thr Arg Asp Ala Trp Leu Ala Leu Leu Glu Glu Thr Gly Met
 195 200 205

Ser Gly Phe Thr His Ala Ala Tyr Pro Asp Ala Val Arg Leu Ala Ser
 210 215 220
 Pro Ala Pro Val His Ala Leu Pro Gly Phe Glu Glu Gly Trp Val Thr
 225 230 235
 Val Gln Asp Ala Ser Ala Gln Gly Cys Met Ala Trp Leu Glu Pro Lys
 245 250 255
 Asp Gly Glu Gln Ile Leu Asp Leu Cys Ala Ala Pro Gly Gly Lys Thr
 260 265 270
 Thr His Ile Leu Glu Val Ala Pro Gln Ala Cys Val Met Ala Val Asp
 275 280 285
 Val Asp Glu Gln Arg Leu Ser Arg Val Tyr Asp Asn Leu Lys Arg Leu
 290 295 300
 Gly Met Lys Ala Gln Val Lys Gln Gly Asp Gly Arg Lys Pro Ala Asp
 305 310 315
 Trp Cys Gly Asp Thr Arg Phe Asp Arg Ile Leu Leu Asp Ala Pro Cys
 325 330 335
 Ser Ala Thr Gly Val Ile Arg Arg His Pro Asp Ile Lys Trp Leu Arg
 340 345 350
 Arg Asp Arg Asp Ile Lys Glu Leu Ala Gln Leu Gln Ser Glu Ile Leu
 355 360 365
 Asp Ala Ile Trp Pro His Leu Lys Pro Gly Gly Thr Leu Val Tyr Ala
 370 375 380
 Thr Cys Ser Val Leu Pro Glu Glu Asn Ser Gln Gln Ile Ala Ala Phe
 385 390 395
 Leu Lys Arg Thr Pro Asp Ala Thr Leu His Asp Thr Gly Thr Pro Glu
 405 410 415
 His Pro Gly Leu Gln Asn Leu Pro Gly Ala Glu Glu Gly Asp Gly Phe
 420 425 430
 Phe Tyr Ala Lys Leu Ile Lys Glu
 435 440

<210> 6780

<211> 470

<212> FRT

<213> Enterobacter cloacae

<400> 6780

Ser Lys Ser Asp Val Glu Asn Arg Ser Arg Lys Met Lys Ile Ile Ile
 1 5 10 15
 Leu Gly Ala Gly Gln Val Gly Gly Thr Leu Ala Glu Asn Leu Val Gly
 20 25 30
 Glu Asn Asn Asp Ile Thr Ile Val Asp Thr Asn Gly Asp Arg Leu Arg
 35 40 45
 Val Leu Gln Asp Lys Phe Asp Leu Arg Val Val Gln Gly His Gly Ser
 50 55 60
 His Pro Arg Val Leu Arg Glu Ala Gly Ala Asp Asp Ala Asp Met Leu
 65 70 75 80
 Val Ala Val Thr Ser Ser Asp Glu Thr Asn Met Val Ala Cys Gln Val
 85 90 95
 Ala Tyr Ser Leu Phe Asn Thr Pro Asn Arg Ile Ala Arg Ile Arg Ser
 100 105 110
 Pro Asp Tyr Val Arg Asp Ala Glu Lys Leu Phe Asn Ser Glu Ala Val
 115 120 125
 Pro Ile Asp His Leu Ile Ala Pro Glu Gln Leu Val Ile Asp Ser Ile
 130 135 140
 Tyr Arg Leu Ile Glu Tyr Pro Gly Ala Leu Gln Val Val Asn Phe Ala
 145 150 155 160
 Glu Gly Lys Val Ser Leu Ala Val Val Lys Ala Tyr Tyr Gly Gly Pro
 165 170 175
 Leu Ile Gly Asn Ala Leu Ser Thr Met Arg Glu His Met Pro His Ile
 180 185 190

```

Asp Thr Arg Val Ala Ala Ile Phe Arg His Asp Arg Pro Ile Arg Pro
195 200
Gln Gly Ser Thr Ile Val Glu Ala Gly Asp Glu Val Phe Phe Ile Ala
210 215 220
Ala Ser Gln His Ile Arg Ala Val Met Ser Glu Leu Gln Arg Leu Glu
225 230 235 240
Lys Pro Tyr Lys Arg Ile Met Leu Val Gly Gly Asn Ile Gly Ala
245 250 255
Gly Leu Ala Arg Arg Leu Glu Lys Asp Tyr Ser Val Lys Leu Ile Glu
260 265 270
Arg Asp Gln Gln Arg Ala Ser Glu Leu Ala Glu Lys Leu Gln Asn Thr
275 280 285
Ile Val Phe Tyr Gly Asp Ala Ser Asp Gln Glu Leu Ala Glu Glu
290 295 300
His Ile Asp Gln Val Asp Leu Phe Ile Ala Val Thr Asn Asp Asp Glu
305 310 315 320
Ala Asn Ile Met Ser Ala Met Leu Ala Lys Arg Met Gly Ala Lys Lys
325 330 335
Val Met Val Leu Ile Gln Arg Lys Ala Tyr Val Asp Leu Val Gln Gly
340 345 350
Ser Val Ile Asp Ile Ala Ile Ser Pro Gln Gln Ala Thr Ile Ser Ala
355 360 365
Leu Leu Ser His Val Arg Lys Ala Asp Ile Val Gly Val Ser Ser Leu
370 375 380
Arg Arg Gly Val Ala Glu Ala Ile Glu Ala Val Ala His Gly Asp Glu
385 390 395 400
Thr Thr Ser Arg Val Val Gly Arg Ala Ile Asp Glu Ile Lys Leu Pro
405 410 415
Pro Gly Thr Ile Ile Gly Ala Val Val Arg Gly Asn Asp Val Met Ile
420 425 430
Ala Asn Asp Asn Leu Arg Ile Glu Gln Gly Asp His Val Ile Met Phe
435 440 445
Leu Thr Asp Lys Lys Phe Ile Thr Asp Val Glu Arg Leu Phe Gln Pro
450 455 460
Ser Pro Phe Phe Leu
465 470

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<210> 6781

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 6781

```

Thr Arg Leu Trp Lys Phe Met Ala Val Leu Gln Val Leu His Ile Pro
1 5 10 15
Asp Glu Arg Leu Arg Ile Val Ala Glu Pro Val Lys Glu Val Asn Ala
20 25 30
Glu Ile Gln Arg Ile Val Asp Asp Met Phe Asp Thr Met Tyr Ala Glu
35 40 45
Glu Gly Ile Gly Leu Ala Ala Thr Gln Val Asp Ile His Lys Arg Ile
50 55 60
Ile Val Ile Asp Val Ser Glu Asn Arg Asp Glu Arg Leu Val Leu Ile
65 70 75 80
Asn Pro Glu Leu Leu Glu Lys Ser Gly Glu Thr Gly Ile Glu Glu Gly
85 90 95
Cys Leu Ser Ile Pro Glu Gln Arg Ala Leu Val Pro Arg Ala Glu Lys
100 105 110
Val Lys Ile Arg Ala Leu Asp Arg Asp Gly Asn Pro Phe Glu Leu Glu
115 120 125
Ala Asp Asp Leu Leu Ala Ile Cys Ile Gln His Glu Met Asp His Leu
130 135 140

```

Val Gly Lys Leu Phe Ile Asp Tyr Leu Ser Pro Leu Lys Gln Gln Arg
 145 150 155 160
 Ile Arg Gln Lys Val Glu Lys Leu Asp Arg Leu Arg Ser Arg Ala
 165 170 175

<210> 6782

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 6782

Arg Pro Pro Asp Thr Arg Asn Asn Val Ser Thr Ser Leu Arg Ile Ile
 1 5 10 15
 Phe Ala Gly Thr Pro Asp Phe Ala Ala Arg His Leu Asp Ala Leu Leu
 20 25 30
 Ser Ser Gly His Gln Ile Val Gly Val Phe Thr Gln Pro Asp Arg Pro
 35 40 45
 Ala Gly Arg Gly Lys Lys Leu Met Pro Gly Pro Val Lys Val Leu Ala
 50 55 60
 Glu Thr His Gly Leu Pro Val Phe Gln Pro Ala Ser Leu Arg Pro Glu
 65 70 75 80
 Glu Asn Gln Gln Leu Val Ala Asp Leu Asn Ala Asp Val Met Val Val
 85 90 95
 Val Ala Tyr Gly Leu Ile Leu Pro Lys Ala Val Leu Asp Met Pro Arg
 100 105 110
 Leu Gly Cys Val Asn Val His Gly Ser Leu Leu Pro Arg Trp Arg Gly
 115 120 125
 Ala Ala Pro Ile Gln Arg Ala Leu Trp Ala Gly Asp Ala Glu Thr Gly
 130 135 140
 Val Thr Ile Met Lys Met Asp Val Gly Leu Asp Thr Gly Asp Met Leu
 145 150 155 160
 Tyr Lys Leu Ala Cys Pro Ile Thr Ala Glu Asp Thr Ser Ala Thr Leu
 165 170 175
 Tyr Asp Lys Leu Ala Asp Leu Gly Pro Gln Gly Leu Ile Glu Thr Leu
 180 185 190
 Gln Gln Leu Ala Asp Asn Thr Ala Thr Pro Glu Val Gln Asp Glu Ala
 195 200 205
 Gln Val Thr Tyr Ala Glu Lys Leu Ser Lys Glu Glu Ala Arg Ile Asp
 210 215 220
 Trp Ser Leu Ser Ala Ala Gln Leu Glu Arg Cys Ile Arg Ala Phe Asn
 225 230 235 240
 Pro Trp Pro Met Ser Trp Leu Met Ile Asp Glu Gln Pro Val Lys Val
 245 250 255
 Trp Lys Ala Ser Val Ile Asn Gly Asn Thr Ser Ala Glu Pro Gly Thr
 260 265 270
 Ile Ile Asp Ala Ser Lys Asn Gly Ile Gln Val Ala Thr Gly Glu Gly
 275 280 285
 Ile Leu Asn Leu Glu Ser Leu Gln Pro Ala Gly Lys Lys Ala Met Ser
 290 295 300
 Ala Gln Asp Leu Leu Asn Ser Arg Arg Glu Trp Phe Ile Pro Gly Asn
 305 310 315 320
 Arg Leu Ala

<210> 6783

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6783

Ser Phe Val Lys Leu Ile Gly Val Ser Trp His Lys Glu Asn Ile Met

```

1           5           10           15
Ser Phe Ile Lys Glu Phe Arg Glu Phe Ala Met Arg Gly Asn Val Val
20           25           30
Asp Leu Ala Val Gly Val Ile Ile Gly Ala Ala Phe Gly Lys Ile Val
35           40           45
Ser Ser Leu Val Ala Asp Ile Ile Met Pro Pro Leu Gly Leu Leu Ile
50           55           60
Gly Gly Ile Asp Phe Lys Gln Phe Ala Phe Thr Leu Arg Glu Ala Gln
65           70           75           80
Gly Asp Ile Pro Ala Val Val Met His Tyr Gly Val Phe Ile Gln Asn
85           90           95
Val Phe Asp Phe Val Ile Val Ala Phe Ala Ile Phe Met Ala Ile Lys
100          105          110
Leu Ile Asn Arg Leu Asn Arg Lys Lys Glu Glu Pro Ala Ala Ala Pro
115          120          125
Pro Ala Pro Thr Lys Glu Glu Val Leu Leu Thr Glu Ile Arg Asp Leu
130          135          140
Leu Lys Glu Gln Asn Asn Arg Val
145          150

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<210> 6784

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 6784

```

Gln Glu Val Ile Met Ala Gln Ile Pro Ala Gly Ala Asp Cys Pro Gly
1           5           10           15
Gln Leu Ser Arg Lys Gln Thr Gly Asp Ala Trp Glu Leu Lys Ala Arg
20           25           30
Arg Trp Leu Glu Gly Lys Gly Leu Arg Phe Val Ala Ala Asn Val Arg
35           40           45
Gly Arg Gly Gly Glu Ile Asp Leu Ile Met Lys Asp Gly Gln Thr Ile
50           55           60
Val Phe Val Glu Val Arg Tyr Arg Gln Ser Ser Arg Phe Gly Gly Ala
65           70           75           80
Ala Ala Ser Val Thr Leu Ala Lys Gln Gln Lys Leu Leu Gln Thr Ala
85           90           95
His Leu Trp Leu Ala Arg His Asn Gly Ser Phe Asp Thr Val Asp Cys
100          105          110
Arg Phe Asp Val Val Ala Phe Thr Gly Asn Ala Ile Asp Trp Leu Lys
115          120          125
Asn Ala Phe Gly Glu Asp Ala
130          135

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<210> 6785

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 6785

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Arg Asp Thr Val Leu Glu Arg Ile Lys Val Cys Phe Thr Glu Ser Ile
1           5           10           15
Gln Thr Gln Ile Ala Ala Ala Glu Ala Leu Pro Asp Ala Ile Ser Arg
20           25           30
Ala Ala Met Thr Leu Val Gln Ser Leu Leu Asn Gly Asn Lys Ile Leu
35           40           45
Cys Cys Gly Asn Gly Thr Ser Ala Ala Asn Ala Gln His Phe Ala Ala
50           55           60
Ser Met Ile Asn Arg Phe Glu Thr Glu Arg Pro Ser Leu Pro Ala Ile
65           70           75           80

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Ala Leu Asn Thr Asp Asn Val Val Leu Thr Ala Ile Ala Asn Asp Arg
 85 90 95
 Leu His Asp Glu Ile Tyr Ala Lys Gln Val Arg Ala Leu Gly His Ala
 100 105 110
 Gly Asp Val Leu Leu Ala Ile Ser Thr Arg Gly Asn Ser Arg Asp Ile
 115 120 125
 Val Lys Ala Val Glu Ala Ala Val Thr Arg Asp Met Thr Ile Val Ala
 130 135 140
 Leu Thr Gly Tyr Asp Gly Gly Glu Leu Ala Gly Leu Gly Pro Gln
 145 150 155 160
 Asp Val Glu Ile Arg Ile Pro Ser His Arg Ser Ala Arg Ile Gln Glu
 165 170 175
 Met His Met Leu Thr Val Asn Cys Leu Cys Asp Leu Ile Asp Asn Thr
 180 185 190
 Leu Phe Pro His Gln Asp Asp
 195 200

<210> 6786

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6786

Gly Val Leu Met Lys Val Leu Ser Ala Leu Ala Val Val Met Ser Ala
 1 5 10 15
 Leu Leu Leu Gln Gly Cys Ile Ala Ala Val Val Gly Thr Ala Ala
 20 25 30
 Val Gly Thr Lys Ala Ala Thr Asp Pro Arg Thr Val Gly Thr Gln Val
 35 40 45
 Asp Asp Gly Thr Leu Glu Leu Arg Val Asn Ser Ala Leu Ser Lys Asp
 50 55 60
 Glu Gln Ile Lys Lys Glu Ala Arg Ile Asn Val Thr Ala Tyr Gln Gly
 65 70 75 80
 Lys Val Leu Leu Ala Gly Gln Ala Pro Asn Pro Glu Leu Ala Ser Arg
 85 90 95
 Ala Lys Gln Ile Ala Met Gly Val Glu Gly Thr Ala Glu Val Tyr Asn
 100 105 110
 Glu Ile Arg Gln Gly Gln Pro Ile Gly Leu Gly Thr Ala Ser Ser Asp
 115 120 125
 Thr Trp Ile Thr Thr Lys Val Arg Ser Gln Leu Leu Gly Thr Asp Gln
 130 135 140
 Val Lys Ser Ser Asn Val Lys Val Thr Thr Glu Asn Gly Glu Val Phe
 145 150 155 160
 Leu Leu Gly Leu Val Thr Glu Arg Glu Gly Lys Ala Ala Asp Ile
 165 170 175
 Ala Ser Arg Val Ser Gly Val Lys His Val Thr Thr Ala Phe Thr Tyr
 180 185 190
 Ile Lys
 195

<210> 6787

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 6787

Gly Gly Gly Ile Pro Asn Arg Gly Arg Ala Met Phe Arg Arg Gln
 1 5 10 15
 Cys Gly Arg Gly Ser Ser Pro Asn Phe Val His Glu Arg Gln Asp
 20 25 30
 Thr Val Leu His Asp Ala Phe Ala Phe Phe Ser Gly Ile Arg Ile Val

35 40 45
 Pro Ile Val Thr Ala Leu Thr Leu Ser Leu Val Gly Leu Phe Ile Pro
 50 55 60
 Leu Leu Trp Glu Tyr Val Ala Met Gly Ile Ala Gly Ile Gly His Ile
 65 70 75 80
 Ile Gln Ser Thr Ser Val Phe Gly Pro Phe Leu Tyr Gly Val Gly Val
 85 90 95
 Leu Leu Leu Lys Pro Phe Gly Leu His His Ile Leu Leu Ala Met Val
 100 105 110
 Arg Phe Thr Pro Ala Gly Gly Ile Glu Met Val Asn Gly Gln Glu Val
 115 120 125
 Ala Gly Ala Leu Asn Ile Phe Tyr Ala Glu Leu Lys Ala Gly Leu Pro
 130 135 140
 Phe Ser Pro His Val Thr Ala Phe Leu Ser Gln Gly Phe Met Pro Thr
 145 150 155 160
 Phe Ile Phe Gly Leu Pro Ala Val Ala Tyr Ala Ile Tyr Arg Thr Ala
 165 170 175
 Arg Pro Glu Asn Arg Pro Val Ile Lys Gly Leu Leu Leu Ser Gly Val
 180 185 190
 Leu Val Ser Val Val Thr Gly Ile Ser Glu Pro Ile Glu Phe Leu Phe
 195 200 205
 Leu Phe Ile Ala Pro Val Leu Tyr Ala Phe His Ile Val Met Ser Gly
 210 215 220
 Leu Ala Leu Met Val Met Ala Leu Leu Gly Val Thr Ile Gly Asn Thr
 225 230 235 240
 Asp Gly Gly Ile Leu Asp Leu Leu Ile Phe Gly Val Met Gln Gly Met
 245 250 255
 Ser Thr Lys Trp Tyr Leu Leu Phe Pro Val Gly Met Ala Trp Phe Ala
 260 265 270
 Ile Tyr Phe Phe Val Phe Arg Trp Tyr Ile Leu Arg His Asp Ile Lys
 275 280 285
 Thr Pro Gly Arg Glu Val Asp Ala Gln Gly Ala Leu Gln Ala Val Glu
 290 295 300
 Ala Asn Thr Arg Ala Arg Gly Lys Ser Lys Tyr Asp His Gly Leu Ile
 305 310 315 320
 Leu Arg Ala Leu Gly Gly Lys Glu Asn Ile Glu Ser Leu Asp Asn Cys
 325 330 335
 Ile Thr Arg Leu Arg Leu Val Val Lys Asp Met Gly Leu Ile Asp Gln
 340 345 350
 Gln Ala Leu Lys Ala Ala Gly Ala Leu Ser Val Val Val Leu Asp Ala
 355 360 365
 His Ser Val Gln Val Ile Ile Gly Pro Gln Val Gln Ser Val Lys Ser
 370 375 380
 Gly Ile Glu Ala Leu Ile
 385 390

<210> 6788

<211> 395

<212> PRT

<213> Enterobacter cloacae

<400> 6788

Gln Gly Asp Val Val Phe Asp Phe Asp Arg Ile Ile Glu Arg Lys Ser
 1 5 10 15
 Asp Lys Cys Arg Lys Trp Asp His Ala Phe Val Cys Ser Arg Phe Gly
 20 25 30
 Asp Val Pro Glu Gly Phe Ile Pro Leu Trp Ile Ala Asp Met Asp Phe
 35 40 45
 Thr Ser Pro Pro Ala Val Ile Glu Gly Phe Gln Arg Ile Val Glu His
 50 55 60
 Gly Thr Phe Gly Tyr Thr Trp Cys Phe Asp Glu Phe Tyr Asp Ala Val

65 70 75 80
 Ile Ala Phe Gln Arg Thr Arg His Gln Val Glu Val His Lys Ser Trp
 85 90 95
 Ile Thr Leu Thr Tyr Gly Thr Val Ser Thr Leu His Tyr Thr Val Gln
 100 105 110
 Ala Phe Cys Lys Pro Gly Asp Cys Val Met Met Asn Thr Pro Val Tyr
 115 120 125
 Asp Pro Phe Ala Met Ala Thr Gln Arg Gln Gly Val Arg Val Leu Ala
 130 135 140
 Asn Pro Leu Ser Val Lys Glu Asn Arg Tyr His Leu Asp Phe Asn Leu
 145 150 155 160
 Ile Glu Val Gln Leu Lys Thr His Arg Pro Lys Leu Trp Phe Phe Cys
 165 170 175
 Ser Pro His Asn Pro Ser Gly Arg Ile Trp Arg Ala Asp Glu Ile Arg
 180 185 190
 Gln Val Ser Asp Leu Cys Lys Arg Tyr Gly Thr Ile Leu Val Val Asp
 195 200 205
 Glu Val His Ala Glu His Ile Leu Asp Gly Thr Phe Val Ser Cys Leu
 210 215 220
 Thr Ser Gly Cys Ala Ala Gln Asp Asn Leu Ile Val Leu Thr Ser Pro
 225 230 235 240
 Asn Lys Ala Phe Asn Leu Gly Gly Leu Lys Thr Ser Tyr Ser Ile Ile
 245 250 255
 Pro Asp Asp Ser Leu Arg Gln Arg Phe Arg Gln Gln Leu Glu Lys Asn
 260 265 270
 Ser Ile Thr Ser Pro Asn Ile Phe Gly Val Trp Gly Ile Ile Leu Ala
 275 280 285
 Tyr Gln Gln Gly Leu Pro Trp Leu Asp Ala Leu Asn Gly Tyr Leu Arg
 290 295 300
 Gly Asn Ala Arg Tyr Leu Ala Asp Ala Ile Gln Thr His Phe Pro Ala
 305 310 315 320
 Trp Lys Met Met Asn Pro Glu Ser Ser Tyr Leu Ala Trp Ile Asp Val
 325 330 335
 Ser Ala Asp Asp Arg Ser Ala Thr Ala Leu Thr Gln His Phe Ala Lys
 340 345 350
 Gln Ala Gly Val Val Ile Glu Asp Gly Ser His Tyr Val Gln Asn Gly
 355 360 365
 Glu Asn Tyr Leu Arg Ile Asn Phe Gly Thr Gln Arg Tyr Trp Leu Glu
 370 375 380
 Gln Ser Ile Asn Arg Met Leu Lys His Tyr
 385 390 395

<210> 6789

<211> 723

<212> PRT

<213> Enterobacter cloacae

<400> 6789

Ala Leu Arg Lys Lys Ile Thr Gly Tyr Ser Met Val Pro Leu Thr Phe
 1 5 10 15
 Leu Arg Lys Lys Ala Ala His Ser Val Pro Leu Leu Leu Ala Ala Leu
 20 25 30
 Ile Phe Thr Gly Cys Gly Thr Gln Ala Pro Asp Gln Ser Thr Ala His
 35 40 45
 Met Gln Gly Ser Ala Gln Ala Asp Ser Gly Phe Tyr Leu Gln Gln Met
 50 55 60
 Ser Gln Ser Thr Asn Asp Thr Arg Ile Asn Trp Gln Leu Leu Ala Ile
 65 70 75 80
 Arg Ala Leu Leu Lys Glu Gly Lys Thr Gln Gln Ala Ala Glu Leu Phe
 85 90 95
 Ser Gln Leu Pro Gln Asp Leu Asn Asp Thr Gln Arg His Glu Gln Thr

[illegible]

Phe Ile Lys Pro Met Ile Ala Met Arg Asn Gly Ser Gln Ser Gly Ala
 595 600 605
 Thr Leu Tyr Ala Ser Ser Arg Ser Ala Gln Gly Thr Ala Gly Pro Asp
 610 615 620
 Phe Arg Leu Glu Met Glu Gly Leu Gln Tyr Ser Glu Ile Pro Met Leu
 625 630 635 640
 Ala Gly Ser Asn Pro Gln Leu Met Gln Gln Ala Leu Gly Ala Val Arg
 645 650 655
 Asn Asp Tyr Ser Leu Ala Arg Leu Tyr Ala Met Gly Val Asp Ala Trp
 660 665 670
 Ala Leu Ala Asn His Phe Thr Gln Met Arg Gln Val Pro Gly Phe Glu
 675 680 685
 Leu Asn Gly Asn Thr Gly Asp Leu Thr Ala Asp Gln Asp Cys Val Ile
 690 695 700
 Asn Arg Lys Leu Ser Trp Leu Lys Tyr Gln Gln Gly Gln Ile Val Pro
 705 710 715 720
 Ala Ser

<210> 6790

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6790

Ile Gly Asn Thr Asp Glu Thr Met Lys Gln His Glu Thr Ala Asp Asn
 1 5 10 15
 Ser Gln Gly Gln Leu Tyr Ile Val Pro Thr Pro Ile Gly Asn Leu Ser
 20 25 30
 Asp Ile Thr Gln Arg Ala Leu Thr Val Leu Gln Ala Val Asp Leu Ile
 35 40 45
 Ala Ala Glu Asp Thr Arg His Thr Gly Leu Leu Leu Gln His Phe Ala
 50 55 60
 Ile Asn Ala Arg Leu Phe Ala Leu His Asp His Asn Glu Gln Gln Lys
 65 70 75 80
 Ala Glu Thr Leu Val Ala Lys Leu Lys Glu Gly Gln Asn Ile Ala Leu
 85 90 95
 Val Ser Asp Ala Gly Thr Pro Leu Ile Asn Asp Pro Gly Tyr His Leu
 100 105 110
 Val Arg Thr Cys Arg Glu Ala Gly Ile Arg Val Val Pro Leu Pro Gly
 115 120 125
 Pro Cys Ala Ala Ile Ala Leu Ser Ala Ala Gly Leu Pro Ser Asp
 130 135 140
 Arg Phe Cys Tyr Glu Gly Phe Leu Pro Ala Lys Ser Lys Gly Arg Arg
 145 150 155 160
 Asp Val Leu Glu Asp Leu Glu Ala Glu Pro Arg Thr Leu Ile Phe Tyr
 165 170 175
 Glu Ser Thr His Arg Leu Leu Glu Ser Leu Glu Asp Met Val Thr Val
 180 185 190
 Trp Gly Glu Gly Arg Tyr Val Val Leu Ala Arg Glu Leu Thr Lys Thr
 195 200 205
 Trp Glu Thr Ile His Gly Ala Pro Val Gly Glu Leu Leu Ala Trp Val
 210 215 220
 Lys Glu Asp Glu Asn Arg Arg Lys Gly Glu Met Val Leu Ile Val Glu
 225 230 235 240
 Gly His Lys Ala Gln Glu Asp Ala Leu Pro Ala Asp Ala Leu Arg Thr
 245 250 255
 Leu Ala Leu Leu Gln Ala Glu Leu Pro Leu Lys Lys Ala Ala Ala Leu
 260 265 270
 Ala Ala Glu Ile His Gly Val Lys Lys Asn Ala Leu Tyr Lys Tyr Ala
 275 280 285

Leu Glu Gln Gln Gly Glu
290 295

<210> 6791
<211> 113
<212> PRT
<213> Enterobacter cloacae

<400> 6791
Lys Tyr Ile Leu Ala Val Leu Val Leu Gly Ala Ala Arg Val Trp Leu
1 5 10 15
Phe Pro His Ala Asp Gly Ala Ile Asp Asn Thr Leu Met Trp Val Ile
20 25 30
Ala Met Ala Val Ala Gly Cys Leu Phe Val Ile Pro Thr Ala Ala Glu
35 40 45
Ile Pro Ile Ile Gln Thr Met Met Met Ala Gly Met Gly Thr Ala Pro
50 55 60
Ala Leu Ala Leu Leu Ile Thr Leu Pro Ala Val Ser Leu Pro Ser Leu
65 70 75 80
Ile Met Leu Arg Lys Ser Phe Pro Ala Lys Ala Leu Trp Leu Thr Ala
85 90 95
Gly Leu Val Ala Leu Ser Gly Val Ile Val Gly Ser Met Ala Leu Val
100 105 110

<210> 6792
<211> 97
<212> PRT
<213> Enterobacter cloacae

<400> 6792
Gly Glu Ala Val Leu His Pro Ala Val Lys Thr Trp Val Val Glu Gly
1 5 10 15
Ser Lys Lys Arg Leu Gln Ala Phe Glu Gly Val Val Ile Ala Ile Arg
20 25 30
Asn Arg Gly Leu His Ser Ala Phe Thr Val Arg Lys Ile Ser Asn Gly
35 40 45
Glu Gly Val Glu Arg Val Phe Gln Thr His Ser Pro Val Val Asp Ser
50 55 60
Ile Ala Val Lys Arg Arg Gly Ala Val Arg Lys Ala Lys Leu Tyr Tyr
65 70 75 80
Leu Arg Glu Arg Thr Gly Lys Ser Ala Arg Ile Lys Glu Arg Leu Asn
85 90 95

<210> 6793
<211> 332
<212> PRT
<213> Enterobacter cloacae

<400> 6793
Thr Lys Lys Gln Phe Met Ala Gln Arg Val Glu Leu Thr Ala Thr Val
1 5 10 15
Ser Glu Asn Gln Leu Gly Gln Arg Leu Asp Gln Ala Leu Ala Glu Leu
20 25 30
Phe Pro Asp Tyr Ser Arg Ser Arg Ile Lys Glu Trp Ile Leu Asp Gln
35 40 45
Arg Val Leu Val Asn Gly Lys Ile Trp Asp Lys Pro Lys Glu Lys Val
50 55 60

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Phe Gly Gly Glu Ala Val Ala Ile Asn Ala Glu Ile Glu Glu Glu Ile
65      70      75      80
Arg Phe Glu Pro Gln Asp Ile Pro Leu Asp Ile Val Tyr Glu Asp Asp
      85      90      95
Asp Ile Leu Val Ile Asn Lys Pro Arg Asp Phe Val Val His Pro Gly
      100      105      110
Ala Gly Asn Pro Asp Gly Thr Val Leu Asn Ala Leu Leu His Tyr Tyr
      115      120      125
Pro Pro Ile Ala Asp Val Pro Arg Ala Gly Ile Val His Arg Leu Asp
      130      135      140
Lys Asp Thr Thr Gly Leu Met Val Val Ala Lys Thr Ile Pro Ala Gln
145      150      155      160
Thr Arg Leu Val Glu Ser Leu Gln Leu Arg Glu Ile Thr Arg Glu Tyr
      165      170      175
Glu Ala Val Ala Ile Gly His Met Thr Ser Gly Gly Thr Val Glu Glu
      180      185      190
Pro Ile Ser Arg His Pro Thr Lys Arg Thr His Met Ser Val His Pro
      195      200      205
Met Gly Lys Pro Ala Val Thr His Tyr Arg Ile Met Glu His Phe Arg
      210      215      220
Ile His Thr Arg Leu Arg Leu Arg Leu Glu Thr Gly Arg Thr His Gln
225      230      235      240
Ile Arg Val His Met Ala His Ile Thr His Pro Leu Val Gly Asp Pro
      245      250      255
Val Tyr Gly Gly Arg Pro Arg Pro Pro Lys Gly Ala Ser Asp Glu Phe
      260      265      270
Ile Ser Val Leu Arg Lys Phe Asp Arg Gln Ala Leu His Ala Thr Met
      275      280      285
Leu Arg Leu Tyr His Pro Ile Thr Gly Ile Gln Met Glu Trp His Ala
      290      295      300
Pro Ile Pro Gln Asp Met Val Glu Leu Ile Asp Ala Met Arg Ala Asp
305      310      315      320
Phe Glu Glu His Lys Asp His Val Asp Trp Leu
      325      330

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<210> 6794

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 6794

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Tyr Arg Cys Val Thr Ser Ser Arg Lys Thr Thr Ile Ala Asn Glu Phe
1      5      10      15
Asp Arg Ile Ala Ile Met Gln Lys Asp Ala Leu Asn Asn Val His Ile
      20      25      30
Thr Asp Glu Gln Val Leu Ile Thr Pro Asp Gln Leu Lys Ala Glu Phe
      35      40      45
Pro Leu Ser Val Ala Gln Glu Ala Gln Ile Glu His Ser Arg Gln Thr
      50      55      60
Ile Ser Asp Ile Ile Ala Gly Arg Asp Pro Arg Leu Leu Val Val Cys
65      70      75      80
Gly Pro Cys Ser Ile His Asp Pro Glu Thr Ala Ile Glu Tyr Ala Arg
      85      90      95
Arg Phe Lys Ala Leu Ala Glu Glu Val Ser Asp Ser Leu Tyr Leu Val
      100      105      110
Met Arg Val Tyr Phe Glu Lys Pro Arg Thr Thr Val Gly Trp Lys Gly
      115      120      125
Leu Ile Asn Asp Pro His Met Asp Gly Ser Phe Asp Val Glu Ala Gly
      130      135      140
Leu Lys Ile Ala Arg Arg Leu Leu Val Glu Leu Val Ser Met Gly Leu
145      150      155      160

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Pro Leu Ala Thr Glu Ala Leu Asp Pro Asn Ser Pro Gln Tyr Leu Gly
 165 170 175
 Asp Leu Phe Ser Trp Ser Ala Ile Gly Ala Arg Thr Thr Glu Ser Gln
 180 185 190
 Thr His Arg Glu Met Ala Ser Gly Leu Ser Met Pro Val Gly Phe Lys
 195 200 205
 Asn Gly Thr Asp Gly Ser Leu Ala Thr Ala Ile Asn Ala Met Arg Ala
 210 215 220
 Ala Ala Met Pro His Arg Phe Val Gly Ile Asn Gln Ala Gly Gln Val
 225 230 235 240
 Cys Leu Leu Gln Thr Gln Gly Asn Pro Asp Gly His Val Ile Leu Arg
 245 250 255
 Gly Gly Lys Ala Pro Asn Tyr Ser Pro Ala Asp Val Ala Gln Cys Glu
 260 265 270
 Lys Glu Met Glu Gln Ala Gly Leu Arg Pro Ala Leu Met Val Asp Cys
 275 280 285
 Ser His Gly Asn Ser Asn Lys Asp Tyr Arg Arg Gln Pro Ala Val Ala
 290 295 300
 Glu Ser Val Ile Ala Gln Ile Lys Asp Gly Asn Arg Ser Ile Ile Gly
 305 310 315 320
 Leu Met Ile Glu Ser Tyr Ile His Glu Gly Asn Gln Ser Ser Glu Gln
 325 330 335
 Pro Arg Ile Ala Met Lys Pro Gly Val Ser Val Thr Asp Ala Cys Ile
 340 345 350
 Ser Trp Glu Thr Thr Asp Ala Leu Leu Arg Glu Ile His Lys Asp Leu
 355 360 365
 Asn Gly Gln Leu Ala Thr Arg Leu Ala
 370 375

<210> 6795

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 6795

Pro Ile Thr Ala Ser Trp Asn Ile Ser Val Phe Ile Pro Ala Cys Val
 1 5 10 15
 Cys Ala Trp Lys Pro Gly Val Leu Thr Arg Ser Ala Cys Thr Trp Arg
 20 25 30
 Ile Leu Pro Ile Arg Trp Trp Val Thr Arg Phe Thr Ala Val Val Arg
 35 40 45
 Val His Gln Arg Ala His Arg Met Asn Ser Ser Pro Cys Cys Val Asn
 50 55 60
 Ser Ile Ala Arg Arg Cys Met Arg Arg Cys Val Phe Thr Thr Gln
 65 70 75 80
 Ser Pro Glu Phe Arg Trp Asn Gly Met Arg Arg Ser His Arg Ile Trp
 85 90 95
 Trp Asn Leu Ser Thr Arg Cys Ala Gln Ile Ser Lys Asn Ile Arg Ile
 100 105 110
 Thr Trp Thr Gly Tyr Asp Gln Thr Asp Cys Pro Gly Val Ala Thr Ala
 115 120 125

<210> 6796

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 6796

Thr Lys Arg Arg Arg Tyr Ile Ala Ile Leu Arg Gly Leu Lys Glu Arg

1 5 10 15
 Tyr Glu Leu His His Val Gln Ile Thr Asp Pro Ala Ile Val Ala
 20 25 30
 Ala Ala Thr Leu Ser His Arg Tyr Ile Ala Asp Arg Gln Leu Pro Asp
 35 40 45
 Lys Ala Ile Asp Leu Ile Asp Glu Ala Ala Ser Ser Ile Arg Met Gln
 50 55 60
 Ile Asp Ser Lys Pro Glu Glu Leu Asp Arg Leu Asp Arg Arg Ile Ile
 65 70 75 80
 Gln Leu Lys Leu Glu Gln Gln Ala Leu Asn Lys Glu Ser Asp Glu Ala
 85 90 95
 Ser Lys Lys Arg Leu Asp Met Leu Asn Glu Glu Leu Asp Glu Lys Glu
 100 105 110
 Arg Gln Tyr Ser Glu Leu Glu Glu Glu Trp Lys Ala Glu Lys Ala Ser
 115 120 125
 Leu Ser Gly Thr Gln Thr Ile Lys Ala Glu Leu Glu Gln Ala Lys Ile
 130 135 140
 Ala Ile Glu Gln Ala Arg Arg Val Gly Asp Leu Ala Arg Met Ser Glu
 145 150 155 160
 Leu Gln Tyr Gly Lys Ile Pro Glu Leu Glu Lys Gln Leu Glu Ile Ala
 165 170 175
 Thr Gln Ser Glu Gly Lys Thr Met Arg Leu Leu Arg Asn Lys Val Thr
 180 185 190
 Asp Ala Glu Ile Ala Glu Val Leu Ala Arg Trp Thr Gly Ile Pro Val
 195 200 205
 Ala Arg Met Met Glu Ser Glu Arg Glu Lys Leu Leu Arg Met Glu Gln
 210 215 220
 Asp Leu His Gln Arg Val Ile Gly Gln Asn Glu Ala Val Glu Ala Val
 225 230 235 240
 Ser Asn Ala Ile Arg Arg Ser Arg Ala Gly Leu Ser Asp Pro Asn Arg
 245 250 255
 Pro Ile Gly Ser Phe Leu Phe Leu Gly Pro Thr Gly Val Gly Lys Thr
 260 265 270
 Glu Leu Cys Lys Ala Leu Ala Asn Phe Met Phe Asp Ser Asp Asp Ala
 275 280 285
 Met Val Arg Ile Asp Met Ser Glu Phe Met Glu Lys His Ala Val Ser
 290 295 300
 Arg Leu Val Gly Ala Pro Pro Gly Tyr Val Gly Tyr Glu Glu Gly Gly
 305 310 315 320
 Tyr Leu Thr Glu Ala Val Arg Arg Arg Pro Tyr Ser Val Ile Leu Leu
 325 330 335
 Asp Glu Val Glu Lys Ala His Pro Asp Val Phe Asn Ile Leu Gln
 340 345 350
 Val Leu Asp Asp Gly Arg Leu Thr Asp Gly Gln Gly Arg Thr Val Asp
 355 360 365
 Phe Arg Asn Thr Val Val Ile Met Thr Ser Asn Leu Gly Ser Asp Leu
 370 375 380
 Ile Gln Glu Arg Phe Gly Glu Leu Asp Tyr Ser His Met Lys Asp Leu
 385 390 395 400
 Val Leu Gly Val Val Ser Gln Asn Phe Arg Pro Glu Phe Ile Asn Arg
 405 410 415
 Ile Asp Glu Val Val Val Phe His Pro Leu Gly Glu Lys His Ile Ala
 420 425 430
 Ser Ile Ala Gln Ile Gln Leu Gln Arg Leu Tyr Lys Arg Leu Glu Glu
 435 440 445
 Arg Gly Tyr Glu Ile His Ile Ser Asp Asp Ala Leu Lys Leu Leu Ser
 450 455 460
 Glu Asn Gly Tyr Asp Pro Val Tyr Gly Ala Arg Pro Leu Lys Arg Ala
 465 470 475 480
 Ile Gln Gln Gln Ile Glu Asn Pro Leu Ala Gln Ile Leu Ser Gly
 485 490 495

Glu Leu Val Pro Gly Lys Val Ile Arg Leu Glu Ala Asn Glu Asp Arg
 500 505 510
 Ile Val Ala Val Gln
 515

<210> 6797

<211> 533

<212> PRT

<213> Enterobacter cloacae

<400> 6797

Ser Met Arg Leu Leu Arg Ala Val Ser Ala Cys Thr Gly Arg Asp Ala
 1 5 10 15
 Gly Ala Tyr Arg Ser Ala Gln Arg Gly Val Ala Ala Ala Arg Glu
 20 25 30
 Ala Ala Ser Ser Gly Gly Gln Pro Leu Ala Leu Phe Pro Leu Ala Leu
 35 40 45
 Pro Arg Tyr Pro Arg Ala Ala Ala Ser Val Cys Phe Leu Pro Leu Lys
 50 55 60
 Gln Asn His Ser Leu Phe Ala Leu Lys Arg Lys Ser Met Thr Thr Cys
 65 70 75 80
 Thr Pro Arg Ala Ala Trp Gly Asn Leu Leu Arg Arg Leu His Phe Tyr
 85 90 95
 Ile Gly Leu Phe Val Gly Pro Phe Ile Phe Phe Ala Ala Leu Thr Gly
 100 105 110
 Thr Leu Tyr Val Ala Thr Pro Gln Leu Glu Asn Ala Leu Tyr His Tyr
 115 120 125
 Ala Leu His Thr Asp Ala Val Gly Glu Ala Gln Pro Leu Ala Lys Gln
 130 135 140
 Ile Thr Val Ala Glu Lys Ala Val Gly Ser Ala Leu Arg Leu His Ala
 145 150 155 160
 Val Arg Pro Gly Leu Glu Glu Gly Glu Thr Thr Arg Val Met Phe Ala
 165 170 175
 Asp Pro Ala Leu Gly Pro Ser Glu His Arg Ala Ile Phe Ile Asp Pro
 180 185 190
 Ala Ser Leu Glu Val Arg Gly Asp Met Thr Val Tyr Gly Thr Ser Gly
 195 200 205
 Ile Leu Pro Leu Arg Gln Thr Ile Asp Tyr Leu His Thr Ser Leu Met
 210 215 220
 Leu Gly Asn Ile Gly Arg Leu Tyr Ser Glu Leu Ala Ala Ser Trp Met
 225 230 235 240
 Trp Val Ala Ala Leu Gly Gly Ile Ala Leu Trp Phe Tyr Thr Arg Pro
 245 250 255
 Lys Arg Arg Ile Asn Asn Arg Phe Gln Asn Arg Arg Arg Leu His Val
 260 265 270
 Ile Leu Gly Trp Thr Leu Leu Thr Gly Met Leu Leu Phe Ser Val Thr
 275 280 285
 Gly Leu Thr Trp Ser Gln Trp Ala Gly Gly Asn Val Asp Lys Leu Arg
 290 295 300
 Ala Glu Met Asn Trp Leu Thr Pro Gln Val Asn Thr Thr Leu Ser Gly
 305 310 315 320
 Ala Pro Glu Met Arg Asp Glu His Ala Glu His Arg Gly His His Gly
 325 330 335
 Gly Met Thr Met Pro Glu Met Pro Val Glu Leu Ser Leu Phe Asp Ser
 340 345 350
 Val Leu Gln Ala Ala Arg Gln Ser Gly Ile Asp Ala Lys Lys Val Glu
 355 360 365
 Ile Arg Pro Ala Ser Arg Asp Asp Gln Ala Trp Thr Val Thr Glu Ile
 370 375 380
 Asp Arg Arg Trp Pro Thr Gln Val Asp Ala Val Ala Val Asp Pro His
 385 390 395 400

Ser Leu Lys Val Leu Asp Ser Thr Arg Phe Gly Asp Phe Pro Leu Met
 405 410 415
 Ala Lys Leu Thr Arg Trp Gly Val Asp Phe His Met Gly Ile Leu Phe
 420 425 430
 Gly Leu Ala Asn Gln Leu Leu Leu Ile Ala Phe Gly Val Ala Leu Cys
 435 440 445
 Val Leu Ile Ile Trp Gly Tyr Arg Met Trp Trp Met Arg Arg Pro Ala
 450 455 460
 Thr Ser Ala Ala Asn Pro Val Gln Thr Leu Cys Gln Ser Trp Leu Ala
 465 470 475 480
 Leu Pro Leu Trp Gly Arg Gly Val Thr Phe Leu Ile Ser Leu Leu Leu
 485 490 495
 Gly Leu Ala Leu Pro Val Met Gly Val Ser Leu Val Val Phe Ile Val
 500 505 510
 Ile Asp Trp Leu Arg Trp Arg Ala Val Ser Gly Val Ser Leu Ala Gly
 515 520 525
 Thr Ser Val Lys
 530

<210> 6798

<211> 387

<212> PRT

<213> *Enterobacter cloacae*

<400> 6798

Thr Ala Ser Trp Arg Arg Val Trp His Lys Arg Ile Val Met Val Ala
 1 5 10 15
 Glu Leu Thr Ala Leu Arg Asp Gln Ile Asp Glu Val Asp Lys Ala Leu
 20 25 30
 Leu Asp Leu Leu Ala Arg Arg Met Ala Leu Val Ala Glu Val Gly Glu
 35 40 45
 Val Lys Ser Lys Tyr Gly Leu Pro Ile Tyr Val Pro Glu Arg Glu Ala
 50 55 60
 Ser Met Leu Ala Ser Arg Arg Lys Glu Ala Gln Ala Leu Gly Val Ser
 65 70 75 80
 Pro Asp Leu Ile Glu Asp Val Leu Arg Arg Val Met Arg Glu Ser Tyr
 85 90 95
 Ser Ser Glu Asn Asp Lys Gly Phe Lys Thr Leu Cys Pro Ser Leu Arg
 100 105 110
 Pro Val Val Ile Val Gly Gly Gly Gln Met Gly Arg Leu Phe Glu
 115 120 125
 Lys Met Leu Thr Leu Ser Gly Tyr Gln Val Arg Ile Leu Glu Lys Glu
 130 135 140
 Asp Trp Pro His Ala Pro Glu Leu Met Lys Asp Ala Gly Met Val Ile
 145 150 155 160
 Val Ser Val Pro Ile His Val Thr Glu Gln Ile Ile Ala Lys Leu Pro
 165 170 175
 Pro Leu Pro Glu Asp Cys Ile Leu Val Asp Leu Ala Ser Val Lys Asn
 180 185 190
 Gly Pro Leu Gln Ala Met Leu Ala Ala His Thr Gly Pro Val Leu Gly
 195 200 205
 Leu His Pro Met Phe Gly Pro Asp Ser Gly Ser Leu Ala Lys Gln Val
 210 215 220
 Val Val Tyr Cys Asp Gly Arg Gln Pro Glu Ala Tyr Gln Trp Phe Leu
 225 230 235 240
 Glu Gln Ile Gln Val Trp Gly Ala Arg Leu His Arg Ile Ser Ala Val
 245 250 255
 Glu His Asp Gln Asn Met Ala Phe Ile Gln Ala Leu Arg His Phe Ala
 260 265 270
 Thr Phe Ala Tyr Gly Leu His Leu Ala Glu Glu Asn Val Gln Leu Glu
 275 280 285

Gln Leu Leu Ala Leu Ser Ser Pro Ile Tyr Arg Leu Glu Leu Ala Met
 290 295 300
 Val Gly Arg Leu Phe Ala Gln Asp Pro Gln Leu Tyr Ala Asp Ile Ile
 305 310 315 320
 Met Ser Ser Glu Asn Asn Leu Ala Leu Ile Lys Arg Tyr Tyr Gln Arg
 325 330 335
 Phe Gly Glu Ala Ile Thr Leu Leu Glu His Gly Asp Lys Gln Ala Phe
 340 345 350
 Ile Asp Ser Phe Arg Lys Val Glu His Trp Phe Gly Asp Tyr Ala Thr
 355 360 365
 Arg Phe Gln Ser Glu Ser Arg Thr Leu Leu Arg Gln Ala Asn Asp Ser
 370 375 380
 Arg Gln
 385

<210> 6799

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6799

Cys Asn Asp Val Tyr Thr Glu Ser Gln His Cys Trp Leu Phe Ser Phe
 1 5 10 15
 Trp Gly Thr Val Met Ala Glu Pro Gln Leu Leu Leu Asn Tyr Thr Gly
 20 25 30
 His Leu Pro Glu Cys Pro Thr Trp Ser Ala Glu Glu Lys Ala Leu Tyr
 35 40 45
 Trp Ala Asp Ile Leu Glu Gly Glu Ile His Arg Tyr His Leu Pro Thr
 50 55 60
 Ala Glu His Ser Val Leu Ser Phe His Glu Glu Val Gly Cys Phe Ala
 65 70 75 80
 Leu Arg Glu Arg Gly Gly Phe Ile Val Ala Met Arg Asn Ala Ile Trp
 85 90 95
 Leu Thr Asp Lys His Gly Leu Leu Gln Arg Lys Val Cys Asp Asn Pro
 100 105 110
 Ser Asn Pro Gln Leu Ala Arg Phe Asn Asp Gly Gly Thr Asp His Gln
 115 120 125
 Gly Arg Phe Tyr Ala Gly Thr Phe Trp Gly Pro Gly Asp Tyr Asn Gly
 130 135 140
 Ala Met Leu Met Arg Ile Asp Asn Asp Leu Thr Pro Lys Val Ile Gln
 145 150 155 160
 Cys Asp Ile His Gly His Asn Gly Leu Ala Phe Ser Pro Asp Lys Arg
 165 170 175
 Trp Met Phe Thr Ser Asp Thr Pro Asn Gly Val Ile Tyr Arg Thr Pro
 180 185 190
 Leu Asp Glu Gln Gly Glu Pro Gly Lys Arg Glu Glu Phe Arg Arg Phe
 195 200 205
 Ser Glu Gly Asp Gly Ile Pro Asp Gly Ala Ala Met Asp Glu Glu Gly
 210 215 220
 Cys Tyr Trp Ser Ala Leu Phe Asp Gly Trp Arg Ile Ala Arg Phe Ser
 225 230 235 240
 Pro Gln Gly Glu Gln Leu Glu Glu His Arg Leu Pro Val Arg Cys Pro
 245 250 255
 Thr Met Val Cys Phe Gly Gly Asp Asp Met Lys Thr Leu Phe Ile Thr
 260 265 270
 Thr Thr Arg Glu Asn Met Glu Ala Glu Leu Ala Lys Tyr Pro Leu
 275 280 285
 Ser Gly Ala Ile Phe Thr Leu Pro Val Asn Val Ala Gly Met Lys Lys
 290 295 300
 Ser Arg Phe Ile Glu His
 305 310

<210> 6800
 <211> 250
 <212> PRT
 <213> Enterobacter cloacae

<400> 6800
 Gly Ser Arg Gly Leu Val Met Thr Lys Leu Ile Val Pro Glu Trp Pro
 1 5 10 15
 Leu Pro Glu Gly Val Ala Ala Cys Ser Ser Thr Arg Ile Gly Gly Val
 20 25 30
 Ser Gln Gly Ala Trp Glu Ser Leu Asn Leu Gly Ala His Cys Gly Asp
 35 40 45
 Asn Leu Glu His Val Glu Glu Asn Arg Lys Arg Leu Phe Ala Ala Gly
 50 55 60
 Asn Leu Pro Ser Lys Pro Val Trp Leu Glu Gln Val His Gly Lys Ala
 65 70 75 80
 Val Leu Lys Leu Thr Gly Glu Pro Tyr Ala Ser Lys Arg Ala Asp Ala
 85 90 95
 Ser Tyr Ser Asn Thr Pro Gly Thr Val Cys Ala Val Met Thr Ala Asp
 100 105 110
 Cys Leu Pro Val Leu Phe Cys Asn Gln Ala Gly Thr Glu Val Ala Ala
 115 120 125
 Ala His Ala Gly Trp Arg Gly Leu Cys Glu Gly Val Leu Glu Glu Thr
 130 135 140
 Val Ala Cys Phe Gln Asp Asp Ser Ala Asn Leu Ile Ala Trp Leu Gly
 145 150 155 160
 Pro Ala Ile Gly Pro Gln Ala Phe Glu Val Gly Pro Glu Val Arg Asp
 165 170 175
 Ala Phe Met Glu Lys Asp Pro Gln Ala Val Glu Ala Phe Val Ala Ser
 180 185 190
 Gly Asp Lys Tyr Leu Ala Asp Ile Tyr Gln Leu Ala Arg Gln Arg Leu
 195 200 205
 Asn Asn Val Gly Val Thr Gln Ile Phe Gly Gly Asp Arg Cys Thr Phe
 210 215 220
 Thr Glu Lys Gly Asp Phe Phe Ser Tyr Arg Arg Asp Lys Thr Thr Gly
 225 230 235 240
 Arg Met Ala Ser Phe Ile Trp Leu Ile
 245 250

<210> 6801
 <211> 359
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (343)

<400> 6801
 Pro Val Met Gly Gly Val Met Arg Leu Asp Arg Leu Thr Asn Lys Phe
 1 5 10 15
 Gln Leu Ala Leu Ala Asp Ala Gln Ser Leu Ala Leu Gly His Asp Asn
 20 25 30
 Gln Phe Ile Glu Pro Leu His Leu Met Ser Ala Leu Leu Asn Gln Glu
 35 40 45
 Gly Gly Ser Val Arg Pro Leu Leu Thr Ser Ala Gly Ile Asn Ala Gly
 50 55 60
 Gln Leu Arg Thr Ala Ile Asp Gln Ala Leu Ser Arg Leu Pro Gln Val
 65 70 75 80
 Glu Gly Thr Gly Gly Asp Val Gln Pro Ser Gln Asp Leu Val Arg Val

85 90 95
 Leu Asn Leu Cys Asp Lys Leu Ala Gln Lys Arg Gly Asp Asn Phe Ile
 100 105 110
 Ser Ser Glu Leu Phe Val Leu Ala Ala Leu Glu Ser Arg Gly Thr Leu
 115 120 125
 Thr Asp Leu Leu Lys Ser Ala Gly Ala Thr Thr Ala Asn Val Thr Gln
 130 135 140
 Ala Ile Glu Lys Met Arg Gly Gly Glu Ser Val Asn Asp Gln Gly Ala
 145 150 155 160
 Glu Asp Gln Arg Gln Ala Leu Lys Lys Phe Thr Val Asp Leu Thr Glu
 165 170 175
 Arg Ala Glu Gln Gly Lys Leu Asp Pro Val Ile Gly Arg Asp Glu Glu
 180 185 190
 Ile Arg Arg Thr Ile Gln Val Leu Gln Arg Arg Thr Lys Asn Asn Pro
 195 200 205
 Val Leu Ile Gly Glu Pro Gly Val Gly Lys Thr Ala Ile Val Glu Gly
 210 215 220
 Leu Ala Gln Arg Ile Val Asn Gly Glu Val Pro Glu Gly Leu Lys Gly
 225 230 235 240
 Arg Arg Val Leu Ala Leu Asp Met Gly Ala Leu Val Ala Gly Ala Lys
 245 250 255
 Tyr Arg Gly Glu Phe Glu Glu Arg Leu Lys Gly Val Leu Asn Asp Leu
 260 265 270
 Ala Lys Gln Glu Gly Asn Val Ile Leu Phe Ile Asp Glu Leu His Thr
 275 280 285
 Met Val Gly Ala Gly Lys Ala Asp Gly Ala Met Asp Ala Gly Asn Met
 290 295 300
 Leu Lys Pro Ala Leu Ala Arg Gly Glu Leu His Cys Val Gly Ala Thr
 305 310 315 320
 Thr Leu Asp Glu Tyr Arg Gln Tyr Ile Glu Lys Asp Ala Ala Leu Glu
 325 330 335
 Arg His Phe Gln Lys Val Xaa Val Ala Glu Pro Ser Val Glu Asp Thr
 340 345 350
 Ser Pro Phe Cys Val Val
 355

<210> 6802

<211> 233

<212> FRT

<213> *Enterobacter cloacae*

<400> 6802

Ala Trp Leu Trp Trp Ala Ala Pro Val Trp Asn Glu Gln Val Pro Asp
 1 5 10 15
 Asn Pro Pro Asn Glu Ile Tyr Ala Thr Ala Gln Gln Lys Leu Gln Asp
 20 25 30
 Gly Asn Trp Lys Gln Ala Ile Thr Gln Leu Glu Ala Leu Asp Asn Arg
 35 40 45
 Tyr Pro Phe Gly Pro Tyr Ser Gln Gln Val Gln Leu Asp Leu Ile Tyr
 50 55 60
 Ala Tyr Tyr Lys Asn Ala Asp Leu Pro Leu Ala Gln Ala Thr Ile Asp
 65 70 75 80
 Arg Phe Met Arg Leu Asn Pro Thr His Pro Asn Ile Asp Tyr Val Met
 85 90 95
 Tyr Met Arg Gly Leu Thr Asn Met Ala Leu Asp Asp Ser Ala Leu Gln
 100 105 110
 Gly Phe Phe Gly Val Asp Arg Ser Asp Arg Asp Pro Gln His Ala Arg
 115 120 125
 Asp Ala Phe Asn Asp Phe Ser Lys Leu Val Arg Ser Tyr Pro Asn Ser
 130 135 140
 Gln Tyr Ile Thr Asp Ala Thr Lys Arg Leu Val Phe Leu Lys Asp Arg

145 150 155 160
 Leu Ala Lys Tyr Glu Tyr Ser Val Ala Glu Tyr Tyr Thr Arg Arg Gly
 165 170 175
 Ala Trp Val Ala Val Val Asn Arg Val Glu Gly Met Leu Arg Asp Tyr
 180 185 190
 Pro Asp Thr Gln Ala Thr Arg Asp Gly Leu Lys Leu Met Glu Asn Ala
 195 200 205
 Tyr Arg Gln Met Gln Met Thr Ala Gln Ala Asp Lys Val Ala Lys Ile
 210 215 220
 Ile Ala Ala Asn Ser Ser Asn Thr
 225 230

<210> 6803

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 6803

His Trp Val Gly Tyr Ala Gly Ile Thr Lys Thr Glu Arg Gln Glu Val
 1 5 10 15
 Lys Phe Met Thr Met Asn Ile Thr Ser Lys Gln Met Glu Ile Thr Pro
 20 25 30
 Ala Ile Arg Gln His Val Ala Asp Arg Leu Ala Lys Leu Asp Lys Trp
 35 40 45
 Gln Thr His Leu Ile Asn Pro His Ile Ile Leu Ser Lys Glu Pro Gln
 50 55 60
 Gly Phe Ile Ala Asp Ala Thr Ile Asn Thr Pro Asn Gly His Leu Val
 65 70 75 80
 Ala Ser Ala Lys His Glu Asp Met Tyr Thr Ala Ile Asn Asp Leu Ile
 85 90 95
 Asn Lys Leu Glu Arg Gln Leu Asn Lys Val Gln His Lys Gly Glu Ala
 100 105 110
 Arg Arg Ala Ala Thr Ser Val Lys Asp Ala Ser Phe Ala Glu Glu Val
 115 120 125
 Glu Glu Glu
 130

<210> 6804

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 6804

Asn Tyr Thr Arg Thr Leu Val Ser Gln Ala Met Leu Thr Lys Arg Arg
 1 5 10 15
 Ile Ala Met Arg Ser Ile Thr Leu Met Leu Leu Ser Leu Ile Leu Ser
 20 25 30
 Gly Cys Gln Ile Asn Pro Tyr Ala Phe Gln Pro Gly Trp Thr Ser Pro
 35 40 45
 Asp Trp Phe Thr Ala Gly Lys Glu Asp Ala Met Asn Gly Val Pro Val
 50 55 60
 Lys Asp Asn Gln Ala Leu Ala Asp Ser Phe Asn Asp Pro Gln Val Asp
 65 70 75 80
 Arg Gly Glu Tyr Leu Arg Gly Tyr Ala Asp Gly Gln Lys Lys Ile Cys
 85 90 95
 Glu Glu Gly Phe Ile His Ala Trp Gly Leu Ala Gly Lys Ser Phe Pro
 100 105 110
 Ala Ser Cys Asp Thr Thr Glu Asn Ala Val Lys Leu Tyr Glu Ser Trp
 115 120 125
 Gln Gln Gly Met Asp Glu Ser Met Arg Ser Ser Arg Leu Asn
 130 135 140

<210> 6805
 <211> 200
 <212> PRT
 <213> Enterobacter cloacae

<400> 6805
 Thr Met Val Phe Cys Arg Gln Phe Leu Arg Thr Ser Ile Ser Gly Ala
 1 5 10 15
 Val Trp Arg Ile Leu Met Arg Asn Ala Ile Leu Ile Ala Leu Leu Arg
 20 25 30
 Leu Pro Leu Ala Leu Met Leu Phe Ile Leu Val Ala Pro Ala Lys Ala
 35 40 45
 Gly Ser Phe Thr Glu Thr Asp Lys Ser Val Arg Ser Ile Val Ser Gly
 50 55 60
 Ile Val Ser Tyr Thr Arg Trp Pro Ala Leu Ser Gly Gln Pro Lys Leu
 65 70 75 80
 Cys Ile Tyr Ala Ser Ser His Tyr Arg Gln Ala Leu Ser Ser Glu Asp
 85 90 95
 Glu His Asn Pro Leu Pro Tyr Ser Pro Val Ile Val His Ser Asp Arg
 100 105 110
 Glu Ala Leu Thr Ala Arg Cys Asp Ala Leu Tyr Phe Gly Ser Glu Ser
 115 120 125
 Pro Ala Lys Gln Gln Glu Ile Ile Asn Gln Tyr Gln Gly Gln Ala Leu
 130 135 140
 Leu Leu Met Ser Glu Gln Asn Pro Glu Cys Val Ile Gly Ser Ala Phe
 145 150 155 160
 Cys Leu Ile Ile Glu His Asn Gln Val Arg Phe Ser Val Asn Leu Asp
 165 170 175
 Ala Leu Ala Arg Ser Gly Val Arg Val Asn Pro Asp Val Leu Met Leu
 180 185 190
 Ala Arg Asn Lys Lys His Glu
 195 200

<210> 6806
 <211> 393
 <212> PRT
 <213> Enterobacter cloacae

<400> 6806
 Asn Glu Thr Asp Asn Thr Met Thr Pro Glu Asn Pro Leu Leu Asp Leu
 1 5 10 15
 Arg Val Lys Ile Ser Ala Leu Asp Glu Lys Leu Leu Ala Leu Leu Ala
 20 25 30
 Glu Arg Arg Ala Leu Ala Val Glu Val Gly Lys Ala Lys Leu Glu Ser
 35 40 45
 His Arg Pro Val Arg Asp Ile Asp Arg Glu Arg Asp Leu Leu Glu Arg
 50 55 60
 Leu Ile Gln Leu Gly Lys Ala His His Leu Asp Ala His Tyr Ile Thr
 65 70 75 80
 Arg Leu Phe Gln Leu Ile Ile Glu Asp Ser Val Leu Thr Gln Gln Ala
 85 90 95
 Leu His Gln Gln His Leu Asn Lys Thr Asn Pro His Ser Ala Arg Ile
 100 105 110
 Ala Phe Leu Gly Pro Lys Gly Ser Tyr Ser His Leu Ala Ala Arg Gln
 115 120 125
 Tyr Ala Ala Arg His Phe Glu Glu Phe Ile Glu Ser Gly Cys Ala Lys
 130 135 140
 Phe Ala Asp Ile Phe Asn Gln Val Glu Thr Gly Gln Ala Asp Tyr Ala
 145 150 155 160
 Val Val Pro Ile Glu Asn Thr Ser Ser Gly Ala Ile Asn Asp Val Tyr

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      165      170      175
Asp Leu Leu Gln His Thr Ser Leu Ser Leu Val Gly Glu Leu Thr Ile
      180      185      190
Pro Ile Asp His Cys Val Leu Val Ser Gly Ser Thr Asp Leu Asn Gln
      195      200      205
Ile Glu Thr Val Tyr Ser His Pro Gln Pro Phe Gln Gln Cys Ser Gln
      210      215      220
Phe Leu Asn Arg Tyr Pro His Trp Lys Ile Glu Tyr Thr Glu Ser Thr
      225      230      235
Ser Ala Ala Met Glu Lys Val Ala Gln Ala Asn Ser Pro Ala Val Ala
      245      250      255
Ala Leu Gly Ser Glu Ala Gly Gly Ala Leu Tyr Gly Leu Gln Val Leu
      260      265      270
Glu Arg Asn Leu Ala Asn Gln Thr Gln Asn Ile Thr Arg Phe Val Val
      275      280      285
Leu Ala Arg Lys Ala Ile Asn Val Ser Asp Gln Val Pro Ala Lys Thr
      290      295      300
Thr Leu Leu Met Ala Thr Gly Gln Gln Ala Gly Ala Leu Val Glu Ala
      305      310      315
Leu Leu Val Leu Arg Asn His Asn Leu Ile Met Thr Lys Leu Glu Ser
      325      330      335
Arg Pro Ile His Gly Asn Pro Trp Glu Met Phe Tyr Leu Asp Val
      340      345      350
Gln Ala Asn Leu Glu Ser Ala Ser Met Gln Lys Ala Leu Arg Glu Leu
      355      360      365
Gly Glu Ile Thr Arg Ser Met Lys Val Leu Gly Cys Tyr Pro Ser Glu
      370      375      380
Thr Val Val Pro Val Asp Pro Ala
      385      390

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<210> 6807

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 6807

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Cys Ser His Gly Ile Arg Ser Met Asn Lys Glu Val Val Pro Thr Pro
l      5      10      15
Arg Pro Thr Phe Lys Arg Thr Leu Arg Arg Ile Ser Met Ile Ser Val
      20      25      30
Ile Ile Thr Met Thr Phe Ile Trp Leu Leu Leu Cys Phe Ala Ser Val
      35      40      45
Val Thr Leu Lys Gln Tyr Ala Gln Lys Asn Leu Glu Leu Thr Gly Ala
      50      55      60
Thr Met Ser His Ser Leu Glu Ala Ser Leu Val Phe Asn Asp Ala Val
      65      70      75
Ala Ala Asn Glu Thr Leu Ala Thr Leu Gly Lys Gln Gly Gln Phe Ala
      85      90      95
Val Ala Glu Val Leu Asn Ala His His Lys Arg Phe Ala Trp Trp Ser
      100      105      110
Trp Asn Pro Ala Asp Asn Thr Asp Thr Leu Gly Ala Leu Val Asn Arg
      115      120      125
Trp Leu Phe Pro Val Pro Val Ala Gln Pro Ile Ile His Asn Gly Asn
      130      135      140
Val Ile Gly Glu Ile Arg Leu Thr Ala Arg Asp Ser Leu Ile Ser His
      145      150      155
Phe Ile Trp Leu Ser Phe Ala Val Leu Thr Gly Cys Ile Leu Phe Ala
      165      170      175
Ser Ala Val Ala Leu Thr Ile Tnr Arg Ser Leu His His Gly Met Val
      180      185      190
Val Glu Met Gln Asn Ile Thr Asp Val Val His Asp Val Arg Thr Asn

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[illegible][illegible]

2007

<400> 6809

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Leu Ala Ala Leu Glu Pro Gly Leu His Arg Ser Gly Gly Glu Ser Met
1      5      10      15
Asn Thr Ala Arg Leu Asn Gln Gly Thr Pro Leu Leu Asn Gly Val
20      25      30
Thr Lys Arg Tyr Gly Asp Asn Thr Ile Leu Asn Ala Leu Asp Leu His
35      40      45
Ile Pro Ala Gly Gln Phe Val Ala Val Val Gly Arg Ser Gly Gly Gly
50      55      60
Lys Ser Thr Leu Leu Arg Leu Leu Ala Gly Leu Glu Ala Pro Asn Ser
65      70      75      80
Gly Asp Ile Leu Ala Gly Thr Thr Pro Leu Ala Thr Ile Gln Asp Asp
85      90      95
Thr Arg Met Met Phe Gln Asp Ala Arg Leu Leu Pro Trp Lys Thr Val
100      105      110
Met Asp Asn Val Gly Leu Gly Leu Lys Gly Ser Trp Arg Glu Asp Ala
115      120      125
Arg Gln Ala Leu Ala Ala Val Gly Leu Glu Asn Arg Ala Gly Glu Trp
130      135      140
Pro Ala Ala Leu Ser Gly Gly Gln Lys Gln Arg Val Ala Leu Ala Arg
145      150      155      160
Ala Leu Ile His Arg Pro Gly Leu Leu Leu Leu Asp Glu Pro Leu Gly
165      170      175
Ala Leu Asp Ala Leu Thr Arg Ile Glu Met Gln Asp Leu Ile Glu Thr
180      185      190
Leu Trp Gln Thr His Gly Phe Thr Val Leu Leu Val Thr His Asp Val
195      200      205
Ser Glu Ala Val Ala Met Ala Asp Arg Val Leu Leu Ile Glu Glu Gly
210      215      220
Lys Ile Gly Leu Asp Leu Thr Val Asp Ile Pro Arg Pro Arg Arg Val
225      230      235      240
Gly Ser Ala Arg Leu Gly Glu Leu Glu Ala Glu Val Leu Asp Arg Val
245      250      255
Met Lys Arg Gly Val Ser Glu Arg Val Leu Ile Lys Ala Asn Ala
260      265      270

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<210> 6810

<211> 83

<212> PRT

<213> *Enterobacter cloacae*

<400> 6810

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Thr Gly Tyr Thr Pro Glu Leu Phe Ile Val Leu Asn Ala Pro Val Arg
1      5      10      15
Gly Cys Tyr Ser Ala Pro Met Thr Gln Phe Ala Ser Pro Val Leu His
20      25      30
Thr Leu Leu Asp Thr Asp Ala Tyr Lys Leu His Met Gln Gln Ala Val
35      40      45
Phe His His Tyr His Asp Val His Val Ala Ala Glu Phe Arg Cys Arg
50      55      60
Gly Asp Asp Leu Leu Gly Ile Tyr Ala Asp Ser Ile Arg Ala Thr Gly
65      70      75      80
Leu His

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<210> 6811

<211> 195

<212> PRT

<213> *Enterobacter cloacae*

<400> 6811

Gly Ala Thr Met Arg Val Ile Thr Leu Ala Gly Ser Pro Arg Phe Pro
 1 5 10 15
 Ser Arg Ser Ser Ala Leu Leu Glu Tyr Ala Arg Glu Lys Leu Asn Ala
 20 25 30
 Leu Asp Val Glu Val Cys His Trp Asn Leu His Asn Phe Ala Pro Glu
 35 40 45
 Asp Leu Leu Tyr Ala Arg Phe Asp Ser Pro Ala Leu Lys Thr Leu Ile
 50 55 60
 Glu Gln Leu Lys Ser Ala Asp Gly Leu Val Val Ala Thr Pro Ile Tyr
 65 70 75 80
 Lys Ala Ser Phe Ser Gly Ala Leu Lys Thr Leu Leu Asp Leu Leu Pro
 85 90 95
 Glu Arg Ala Leu Asp Gly Lys Val Val Leu Pro Leu Ala Thr Gly Gly
 100 105 110
 Thr Val Ala His Leu Leu Ala Val Asp Tyr Ala Leu Lys Pro Val Leu
 115 120 125
 Asn Ala Leu Lys Ala Gln Glu Ile Leu His Gly Val Phe Ala Asp Asp
 130 135 140
 Ser Gln Val Ile Asp Tyr Gln His Lys Pro His Phe Thr Pro Asn Leu
 145 150 155 160
 Gln Thr Arg Leu Asp Ser Ala Leu Glu Thr Phe Trp His Ala Leu Asn
 165 170 175
 Arg Arg Asp Arg His Ala Ala Ala Phe His Gln Ser Gln Gly Val Ala
 180 185 190
 His Val
 195

<210> 6812

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 6812

Arg Lys Lys Ile Met Ser Leu Asn Leu Phe Trp Phe Leu Pro Thr His
 1 5 10 15
 Gly Asp Gly His Tyr Leu Gly Thr Glu Glu Gly Ala Arg Pro Val Asp
 20 25 30
 His Gly Tyr Leu Gln Gln Ile Ala Gln Ala Ala Asp Arg Ile Gly Phe
 35 40 45
 Thr Gly Val Leu Ile Pro Thr Gly Arg Ser Cys Glu Asp Ala Trp Leu
 50 55 60
 Val Ala Ala Ser Met Ile Pro Val Thr Gln Arg Leu Lys Phe Leu Val
 65 70 75 80
 Ala Leu Arg Pro Ser Val Val Ser Pro Thr Val Ala Ala Arg Gln Ala
 85 90 95
 Ala Thr Leu Asp Arg Leu Ser Asn Gly Arg Ala Leu Phe Asn Leu Val
 100 105 110
 Thr Gly Ser Asp Pro Gln Glu Leu Ala Gly Asp Gly Val Phe Leu Asp
 115 120 125
 His Thr Glu Arg Tyr Glu Ala Ser Ala Glu Phe Thr Arg Val Trp Arg
 130 135 140
 Arg Leu Leu Glu Gly Glu Thr Val Thr Phe Glu Gly Lys His Ile His
 145 150 155 160
 Val Arg Asp Ala Gln Leu Tyr Phe Pro Pro Leu Gln Gln Pro Arg Pro
 165 170 175
 Pro Leu Tyr Phe Gly Gly Ser Ser Asp Val Ala Gln Glu Leu Ala Ala
 180 185 190
 Glu Gln Val Asp Leu Tyr Leu Thr Trp Gly Glu Pro Pro Glu Leu Val
 195 200 205
 Lys Glu Lys Ile Ala Gln Val Arg Ala Lys Ala Ala Glu His Gly Arg

210 215 220
 Thr Val Arg Phe Gly Ile Arg Leu His Val Ile Val Arg Glu Thr Asn
 225 230 235 240
 Asp Glu Ala Trp Gln Ala Ala Asp Arg Leu Ile Ala His Leu Asp Asp
 245 250 255
 Asp Thr Ile Ala Lys Ala Gln Ala Ala Phe Ala Lys Thr Asp Ser Val
 260 265 270
 Gly Gln His Arg Met Ala Ser Leu His Asn Gly Lys Arg Glu Asn Leu
 275 280 285
 Glu Ile Ser Pro Asn Leu Trp Ala Gly Val Gly Leu Val Arg Gly Gly
 290 295 300
 Ala Gly Thr Ala Leu Val Gly Asp Gly Pro Thr Val Ala Ala Arg Ile
 305 310 315 320
 Asn Glu Tyr Ala Ala Leu Gly Ile Asp Ser Phe Ile Leu Ser Gly Tyr
 325 330 335
 Pro His Leu Glu Glu Ala Tyr Lys Val Gly Glu Leu Leu Phe Pro His
 340 345 350
 Leu Asp Val Ala Ile Pro Glu Ile Pro Gln Pro Arg Gln Leu Gln Leu
 355 360 365
 Gln Gly Glu Ala Val Ala Asn Ala Phe Ile Pro Arg Lys Val Ala Gln
 370 375 380
 Ser
 385

<210> 6813
 <211> 267
 <212> PRT
 <213> Enterobacter cloacae

<400> 6813
 Gly Ala Thr Met Ser Ala Thr Ala Gln Lys Trp Leu Leu Arg Ala Ala
 1 5 10 15
 Pro Trp Phe Leu Pro Val Gly Ile Val Leu Val Trp Gln Leu Ala Ser
 20 25 30
 Ser Thr Gly Trp Leu Ser Ser Arg Ile Leu Pro Ser Pro Glu Gly Val
 35 40 45
 Val Glu Ala Phe Trp Ser Leu Ser Ala Ser Gly Glu Leu Trp Gln His
 50 55 60
 Leu Ala Ile Ser Ser Trp Arg Ala Val Ile Gly Phe Ser Ile Gly Gly
 65 70 75 80
 Ser Ile Gly Leu Thr Leu Gly Leu Ile Ser Gly Leu Ser Arg Trp Gly
 85 90 95
 Glu Arg Leu Leu Asp Thr Ser Val Gln Met Leu Arg Asn Val Pro His
 100 105 110
 Leu Ala Leu Ile Pro Leu Val Ile Leu Trp Phe Gly Ile Asp Glu Ser
 115 120 125
 Ala Lys Ile Phe Leu Val Ala Leu Gly Thr Leu Phe Pro Ile Tyr Ile
 130 135 140
 Asn Thr Trp His Gly Ile Arg Asn Ile Asp Arg Gly Leu Val Glu Met
 145 150 155 160
 Ala Arg Ser Tyr Gly Leu Ser Gly Phe Ala Leu Phe Thr His Val Ile
 165 170 175
 Leu Pro Gly Ala Leu Pro Ser Ile Met Val Gly Val Arg Phe Ala Leu
 180 185 190
 Gly Leu Met Trp Leu Thr Leu Ile Val Ala Glu Thr Ile Ser Ala Asn
 195 200 205
 Ser Gly Ile Gly Tyr Leu Ala Met Asn Ala Arg Glu Phe Leu Gln Thr
 210 215 220
 Asp Val Val Val Val Ala Ile Val Leu Tyr Ala Leu Leu Gly Lys Leu
 225 230 235 240
 Ala Asp Val Ser Ala Gln Trp Leu Glu Arg Ser Trp Leu Arg Trp Asn

Pro Ala Tyr Thr Ala Gln Glu Ala Lys Ala
245 250 255
260 265

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<210> 6814
<211> 338
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 6815
<211> 102
<212> PRT
<213> Enterobacter cloacae
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<400> 6815

Tyr Arg Thr Phe Arg Gly Arg Glu Arg Asn Met Arg Ile Lys Pro Asp
 1 5 10 15
 Asp Asn Trp Arg Trp Tyr Phe Cys Glu Glu His Asp Arg Met Leu
 20 25 30
 Asp Leu Ala Asn Gly Met Leu Phe Arg Ser Arg Phe Ala Arg Arg Met
 35 40 45
 Leu Thr Pro Asp Ala Phe Ala Pro Ser Gly Phe Cys Val Asp Asp Ala
 50 55 60
 Ala Leu Tyr Phe Ser Phe Glu Glu Lys Cys Arg Asp Leu Asp Leu Ser
 65 70 75 80
 Lys Glu Gln Arg Ala Glu Leu Val Leu Ser Leu His His Gly Thr Gly
 85 90 95
 Arg Ile Arg Val Met Leu
 100

<210> 6816

<211> 906

<212> PRT

<213> Enterobacter cloacae

<400> 6816

Leu Lys Arg Ala Leu Cys Leu Lys Arg Arg Thr Phe Cys Ile Ala Arg
 1 5 10 15
 Phe Thr Gln Gln Glu Tyr Ile Glu Ser Leu Leu Asp Lys Arg Cys Ile
 20 25 30
 Arg Phe Ser Met Thr Gln Gln Pro Gln Ala Lys Tyr Arg His Asp Tyr
 35 40 45
 Arg Ala Pro Glu Tyr Leu Ile Ser Asp Ile Asp Leu Thr Phe Asp Leu
 50 55 60
 Asp Ala Thr Lys Thr Val Val Thr Ala Val Ser Gln Val Thr Arg Gln
 65 70 75 80
 Ser Ala Thr Ala Val Ser Leu Arg Leu Asp Gly Glu Asp Leu Thr Leu
 85 90 95
 Val Ser Leu His Ile Asn Asp Glu Ala Trp Ser Asp Tyr Lys Glu Glu
 100 105 110
 Gly Asn Gln Leu Val Ile Asp Asn Leu Pro Glu Arg Phe Thr Leu Arg
 115 120 125
 Ile Val Asn Glu Ile Ser Pro Ala Ala Asn Thr Ala Leu Glu Gly Leu
 130 135 140
 Tyr Gln Ser Gly Val Ala Leu Cys Thr Gln Cys Glu Ala Glu Gly Phe
 145 150 155 160
 Arg His Ile Thr Trp Tyr Leu Asp Arg Pro Asp Val Leu Ala Arg Phe
 165 170 175
 Thr Thr Lys Ile Ile Ala Asp Lys Thr Leu Tyr Pro Tyr Leu Leu Ser
 180 185 190
 Asn Gly Asn Arg Ile Gly Glu Gly Glu Leu Glu Asn Gly Arg His Trp
 195 200 205
 Val Gln Trp Gln Asp Pro Phe Pro Lys Pro Cys Tyr Leu Phe Ala Leu
 210 215 220
 Val Ala Gly Asp Phe Asp Val Leu Arg Asp Thr Phe Lys Thr Arg Ser
 225 230 235 240
 Gly Arg Glu Val Ala Leu Glu Leu Phe Val Asp Arg Gly Asn Leu Asp
 245 250 255
 Arg Ala Pro Trp Ala Met Thr Ser Leu Ile Asn Ser Met Lys Trp Asp
 260 265 270
 Glu Thr Arg Phe Gly Leu Glu Tyr Asp Leu Asp Ile Tyr Met Ile Val
 275 280 285
 Ala Val Asp Phe Phe Asn Met Gly Ala Met Glu Asn Lys Gly Leu Asn
 290 295 300
 Ile Phe Asn Ser Lys Tyr Val Leu Ala Arg Thr Asp Thr Ala Thr Asp
 305 310 315 320

Lys Asp Tyr Leu Asp Ile Glu Arg Val Ile Gly His Glu Tyr Phe His
 325 330 335
 Asn Trp Thr Gly Asn Arg Val Thr Cys Arg Asp Trp Phe Gln Leu Ser
 340 345 350
 Leu Lys Glu Gly Leu Thr Val Phe Arg Asp Gln Glu Phe Ser Ser Asp
 355 360 365
 Leu Gly Ser Arg Ala Val Asn Arg Ile Asn Asn Val Arg Thr Met Arg
 370 375 380
 Gly Leu Gln Phe Ala Glu Asp Ala Ser Pro Met Ala His Pro Ile Arg
 385 390 395 400
 Pro Asp Lys Val Ile Glu Met Asn Asn Phe Tyr Thr Leu Thr Val Tyr
 405 410 415
 Glu Lys Gly Ala Glu Ile Ile Arg Met Ile His Thr Leu Leu Gly Glu
 420 425 430
 Glu Asn Phe Gln Lys Gly Met Gln Leu Tyr Phe Glu Arg His Asp Gly
 435 440 445
 Ser Ala Ala Thr Cys Asp Asp Phe Val Gln Ala Met Glu Asp Ala Ser
 450 455 460
 Asn Val Asp Leu Ser His Phe Arg Arg Trp Tyr Ser Gln Ala Gly Thr
 465 470 475 480
 Pro Ile Val Thr Val Lys Asp Asp Tyr Asn Pro Glu Thr Glu Gln Tyr
 485 490 495
 Thr Leu Thr Ile Ser Gln Arg Thr Pro Pro Thr Ala Glu Gln Glu Glu
 500 505 510
 Lys His Pro Leu His Ile Pro Phe Ser Val Glu Leu Tyr Asp Asn Glu
 515 520 525
 Gly Asn Val Ile Pro Leu Gln Lys Gly Gly His Pro Val His Asn Val
 530 535 540
 Leu Asn Val Thr Gln Ala Glu Gln Thr Phe Ile Phe Asp Asn Val Tyr
 545 550 555 560
 Phe Gln Pro Val Pro Ala Leu Leu Cys Glu Phe Ser Ala Pro Val Lys
 565 570 575
 Leu Glu Tyr Lys Trp Ser Asp Gln Gln Leu Thr Phe Leu Met Arg His
 580 585 590
 Ala Arg Asn Asp Phe Ser Arg Trp Asp Ala Ala Gln Ser Leu Leu Ala
 595 600 605
 Thr Tyr Ile Lys Leu Asn Val Asn Arg Tyr Gln Gln Gly Gln Pro Leu
 610 615 620
 Thr Leu Pro Val His Val Ala Asp Ala Phe Arg Ala Ile Leu Leu Asp
 625 630 635 640
 Glu Asn Ile Asp Pro Ala Leu Ala Ala Glu Ile Leu Thr Leu Pro Ser
 645 650 655
 Ala Thr Glu Ile Ala Glu Leu Phe Asp Ile Ile Asp Pro Ile Ala Ile
 660 665 670
 Val Ala Val Arg Glu Ala Leu Thr Arg Thr Leu Val Thr Glu Leu Ala
 675 680 685
 Asp Glu Phe Leu Ala Ile Tyr Asn Ala Asn Lys Leu Asp Ala Tyr Arg
 690 695 700
 Val Glu His Ala Asp Ile Gly Lys Arg Ser Leu Arg Asn Thr Cys Leu
 705 710 715 720
 Arg Tyr Leu Ala Phe Gly Glu Ala Glu Leu Ala Asn Thr Leu Val Ser
 725 730 735
 Lys Gln Tyr His Glu Ala Asp Asn Met Thr Asp Ala Leu Ala Ala Leu
 740 745 750
 Ala Ala Ser Val Ala Ala Glu Leu Pro Cys Arg Asp Ala Leu Met Gln
 755 760 765
 Glu Tyr Asp Asp Lys Trp Tyr Gln Asp Gly Leu Val Met Asp Lys Trp
 770 775 780
 Phe Ile Leu Gln Ala Thr Ser Pro Ala Ala Asp Val Leu Ser Lys Val
 785 790 795 800
 Arg Ser Leu Leu Lys His Arg Ser Phe Thr Met Ser Asn Pro Asn Arg


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<210> 6818
<211> 468
<212> PRT
<213> Enterobacter cloacae
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400> 6818																			
Leu	Ala	Asp	Leu	Glu	Phe	Asp	Pro	Ala	His	Met	Leu	Ser	Ser	Gln	Ser				
1				5				10						15					
Pro	Ser	Ile	Tyr	Thr	Val	Ser	Arg	Leu	Asn	Gln	Thr	Val	Arg	Leu	Leu				
			20					25					30						
Leu	Glu	Gln	Glu	Met	Gly	Gln	Val	Trp	Ile	Ser	Gly	Glu	Ile	Ser	Asn				
		35					40					45							
Phe	Thr	Gln	Pro	Ala	Ser	Gly	His	Trp	Tyr	Phe	Thr	Leu	Lys	Asp	Asp				
	50					55				60									
Thr	Ala	Gln	Val	Arg	Cys	Ala	Met	Phe	Arg	Asn	Ser	Asn	Arg	Arg	Val				
65					70				75						80				
Thr	Phe	Arg	Pro	Gln	His	Gly	Gln	Gln	Val	Leu	Val	Arg	Ala	Asn	Ile				
				85					90					95					
Thr	Leu	Tyr	Glu	Pro	Arg	Gly	Asp	Tyr	Gln	Ile	Ile	Val	Glu	Ser	Met				
		100						105					110						
Gln	Pro	Ala	Gly	Glu	Gly	Leu	Leu	Gln	Gln	Lys	Tyr	Glu	Gln	Leu	Lys				
		115					120					125							
Ala	Met	Leu	Ser	Ala	Glu	Gly	Leu	Phe	Asp	Gln	Gln	Phe	Lys	Lys	Pro				
130						135				140									
Leu	Pro	Ser	Pro	Ala	His	Cys	Val	Gly	Val	Ile	Thr	Ser	Lys	Thr	Gly				
145					150				155						160				
Ala	Ala	Leu	His	Asp	Ile	Leu	His	Val	Leu	Lys	Arg	Arg	Asp	Pro	Ser				
				165					170					175					
Leu	Pro	Val	Ile	Ile	Tyr	Pro	Thr	Ala	Val	Gln	Gly	Asp	Asp	Ala	Pro				
		180						185					190						
Gly	Gln	Ile	Val	Arg	Ala	Ile	Glu	Leu	Ala	Asn	Ala	Arg	Gln	Glu	Cys				
		195					200					205							
Asp	Val	Leu	Ile	Val	Gly	Arg	Gly	Gly	Gly	Ser	Leu	Glu	Asp	Leu	Trp				
	210					215					220								
Ser	Phe	Asn	Asp	Glu	Arg	Val	Ala	Arg	Ala	Ile	Phe	Ala	Ser	Leu	Ile				
225					230					235					240				
Pro	Val	Val	Ser	Ala	Val	Gly	His	Glu	Thr	Asp	Val	Thr	Ile	Ala	Asp				
				245						250				255					
Phe	Val	Ala	Asp	Leu	Arg	Ala	Pro	Thr	Pro	Ser	Ala	Ala	Ala	Glu	Val				
		260						265					270						
Val	Ser	Arg	Asn	Gln	Gln	Glu	Leu	Leu	Arg	Gln	Ile	Gln	Asn	Gly	Gln				
		275					280					285							
Gln	Arg	Leu	Glu	Met	Ala	Met	Asp	Tyr	Phe	Leu	Ala	Asn	Arg	Thr	Arg				
	290					295				300									
Arg	Phe	Thr	Gln	Leu	His	His	Arg	Leu	Gln	Gln	Gln	His	Pro	Gln	Leu				
305					310					315					320				
Arg	Leu	Ala	Arg	Gln	Gln	Thr	Val	Leu	Glu	Arg	Leu	Arg	Gln	Arg	Met				
				325					330				335						
Asn	Phe	Ala	Leu	Asp	Asn	Gln	Leu	Lys	Arg	Ala	Val	Ser	Arg	Gln	Gln				
		340						345					350						
Arg																			

405 410 415
 Ser Val Thr Thr Ala Thr Asp Gly Lys Val Leu Lys Gln Thr Lys Gln
 420 425 430
 Val Lys Ala Gly Asp Val Leu Thr Thr Arg Leu Ser Asp Gly Trp Val
 435 440 445
 Glu Ser Glu Val Lys Glu Ile Lys Pro Val Lys Lys Thr Arg Gln Arg
 450 455 460
 Lys Ser Gly
 465

<210> 6819

<211> 369

<212> PRT

<213> Enterobacter cloacae

<400> 6819

Lys Lys Arg Ala Ser Val Lys Ala Asp Lys Ser Ser Pro Val Thr Asn
 1 5 10 15
 Tyr Thr Ala Ala Ile Ala Phe Phe Asp Lys Glu Ser Ser Met Pro His
 20 25 30
 Leu His Ser Val Ile Pro Pro Tyr Ile Leu Arg Arg Ile Ile Glu Ser
 35 40 45
 Gly Ser Glu Pro Gln Gln Arg Cys Ala Arg Gln Thr Leu Thr His Val
 50 55 60
 Gln Thr Leu Met Ala His Met Pro Gly Lys Pro Ala Ala Pro His Val
 65 70 75 80
 Asn Lys Ala Gly Gln Leu Glu Arg Asp Ile Tyr Asp Ala Lys Gln Thr
 85 90 95
 Gln Glu Leu Pro Gly Ser Gln Val Arg Tyr Glu Gly Gln Pro Ser Asn
 100 105 110
 Gly Asp Val Ala Val Asp Glu Ala Tyr Asp Tyr Leu Gly Ile Thr His
 115 120 125
 Asp Phe Phe Trp Lys Glu Tyr Gln Arg Asp Ser Leu Asp Asn Lys Gly
 130 135 140
 Leu Ile Leu Thr Gly Thr Val His Tyr Gly Arg Glu Tyr Gln Asn Ala
 145 150 155 160
 Phe Trp Asn Gly Gln Gln Met Val Phe Gly Asp Gly Asp Gly Glu Ile
 165 170 175
 Phe Asn Arg Phe Thr Ile Ala Ile Asp Val Val Ala His Glu Leu Ser
 180 185 190
 His Gly Val Thr Glu Thr Glu Ala Gly Leu Ile Tyr Phe Glu Gln Ser
 195 200 205
 Gly Ala Leu Asn Glu Ser Leu Ser Asp Val Phe Gly Ser Leu Val Lys
 210 215 220
 Gln Tyr Tyr Leu Lys Gln Thr Ala Asp Gln Ala Asp Trp Leu Ile Gly
 225 230 235 240
 Glu Gly Leu Leu Ala Ala Gly Ile Asn Gly Lys Gly Leu Arg Ser Met
 245 250 255
 Ser Glu Pro Gly Thr Ala Tyr Asp Asp Pro Leu Leu Gly Lys Asp Pro
 260 265 270
 Gln Pro Ala His Met Lys Asp Phe Ile Lys Thr Arg Glu Asp Asn Gly
 275 280 285
 Gly Val His Leu Asn Ser Gly Ile Pro Asn Arg Ala Phe Tyr Leu Ala
 290 295 300
 Ala Thr Ala Ile Gly Gly Tyr Ala Trp Glu Lys Ala Gly Tyr Ala Trp
 305 310 315 320
 Tyr Asp Thr Val Cys Asp Arg Asn Leu Ala Gln Asp Ala Asp Phe Asp
 325 330 335
 Ala Phe Ala Lys Leu Thr Ile Ala His Gly Glu Lys Arg Ser Gly Ser
 340 345 350
 Asp Val Gly Ala Ala Ile Lys Gln Ala Trp Glu Gln Val Gly Val Leu

355

360

365

<210> 6820

<211> 145

<212> PRT

<213> *Enterobacter cloacae*

<400> 6820

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Asn Phe Ala Arg Val His Phe Ile Ser Ala Leu His Gly Ser Gly Val
1          5          10          15
Gly Asn Leu Phe Glu Ser Val Arg Glu Ala Tyr Asp Ser Ser Thr Arg
20          25          30
Arg Gln Ser Thr Ala Met Leu Thr Arg Ile Met Asn Met Ala Ala Glu
35          40          45
Asp His Gln Pro Pro Leu Val Arg Gly Arg Arg Val Lys Leu Lys Tyr
50          55          60
Ala His Ala Gly Gly Tyr Asn Pro Pro Ile Val Val Ile His Gly Asn
65          70          75
Gln Val Lys Asp Leu Pro Asp Ser Tyr Lys Arg Tyr Leu Met Asn Tyr
85          90          95
Phe Arg Lys Ser Leu Asp Val Met Gly Thr Pro Ile Arg Ile Gln Phe
100         105         110
Lys Glu Gly Glu Asn Pro Phe Ala Asn Lys Arg Asn Thr Leu Thr Pro
115         120         125
Asn Gln Met Arg Lys Arg Lys Arg Leu Ile Lys His Ile Lys Lys Ser
130         135         140
Lys
145

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<210> 6821

<211> 533

<212> PRT

<213> *Enterobacter cloacae*

<400> 6821

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Pro Phe Gly Val His Ala Gly Val Tyr Lys His Asp Thr Tyr Leu Phe
1          5          10          15
Gly Arg Ile Met Gln Ser Ser Val Asn Gln Lys Glu Ser Arg Thr Phe
20          25          30
Phe Gly His Pro Tyr Pro Leu Gly Ser Leu Phe Phe Thr Glu Met Trp
35          40          45
Glu Arg Phe Ser Phe Tyr Gly Ile Arg Pro Leu Leu Ile Leu Phe Met
50          55          60
Ala Ala Thr Val Tyr Asp Gly Gly Met Gly Leu Ala Arg Glu Asn Ala
65          70          75
Ser Ala Ile Val Gly Ile Phe Ala Gly Thr Met Tyr Leu Ala Ala Leu
85          90          95
Pro Gly Gly Trp Leu Ala Asp Asn Trp Leu Gly Gln Gln Arg Ala Val
100         105         110
Trp Tyr Gly Ser Ile Leu Ile Ala Leu Gly His Leu Ser Ile Ala Leu
115         120         125
Ser Ala Ile Met Gly Asp Asn Leu Phe Phe Ile Gly Leu Met Phe Ile
130         135         140
Val Leu Gly Ser Gly Leu Phe Lys Thr Cys Ile Ser Val Met Val Gly
145         150         155
Thr Leu Tyr Lys Lys Gly Asp Ala Arg Arg Asp Gly Gly Phe Ser Leu
165         170         175
Phe Tyr Met Gly Ile Asn Met Gly Ser Phe Ile Ala Pro Leu Ile Ser
180         185         190

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Gly Trp Leu Ile Lys Thr His Gly Trp His Trp Gly Phe Gly Ile Gly
 195 200 205
 Gly Ile Gly Met Leu Val Ala Leu Ile Ile Phe Arg Val Phe Ala Val
 210 215 220
 Pro Ala Met Lys Arg Tyr Asp Ser Glu Val Gly Leu Asp Ser Thr Trp
 225 230 235 240
 Asn Ser Pro Val Val Lys Arg Asn Gly Val Gly Ala Trp Leu Leu Ala
 245 250 255
 Leu Ala Val Gly Val Ala Ile Ile Val Thr Leu Ile Ala Gln Gly Val
 260 265 270
 Ile Val Ile Asn Pro Val Ala Val Ala Ser Val Leu Val Tyr Val Ile
 275 280 285
 Ala Ala Ser Val Ala Leu Tyr Phe Ile Tyr Leu Phe Ile Phe Ala Gly
 290 295 300
 Leu Asn Arg Lys Glu Arg Ala Arg Leu Leu Cys Phe Ile Leu Leu
 305 310 315 320
 Val Ser Ala Ala Phe Phe Trp Ser Ala Phe Glu Gln Lys Pro Thr Ser
 325 330 335
 Phe Asn Leu Phe Ala Asn Asp Tyr Thr Asn Arg Met Ile Gly Asp Phe
 340 345 350
 Glu Ile Pro Ala Val Trp Phe Gln Ser Ile Asn Ala Leu Phe Ile Ile
 355 360 365
 Leu Leu Ala Pro Val Phe Ser Trp Ala Trp Pro Lys Leu Ala Ser Lys
 370 375 380
 Asn Ile Arg Pro Ser Ser Ile Thr Lys Phe Val Ile Gly Ile Leu Cys
 385 390 395 400
 Ala Ala Ala Gly Phe Gly Leu Met Met Leu Ala Ala Gln Asn Val Leu
 405 410 415
 Ser Asn Gly Gly Ala Gly Val Ser Pro Phe Trp Leu Val Gly Ser Ile
 420 425 430
 Leu Met Leu Thr Leu Gly Glu Leu Cys Leu Ser Pro Ile Gly Leu Ala
 435 440 445
 Thr Met Thr Leu Leu Ala Pro Glu Arg Met Arg Gly Gln Met Met Gly
 450 455 460
 Leu Trp Phe Cys Ala Ser Ala Leu Gly Asn Leu Ala Ala Gly Leu Ile
 465 470 475 480
 Gly Gly His Val Lys Ala Asp Gln Leu Asp Met Leu Pro Asp Leu Phe
 485 490 495
 Ala Arg Cys Ser Ile Ala Leu Leu Ile Cys Ala Ala Val Leu Ile Val
 500 505 510
 Leu Ile Val Pro Val Arg Arg Met Leu Glu Asn Ala Gln Thr Lys Pro
 515 520 525
 Ala Thr Glu Ala
 530

<210> 6822

<211> 497

<212> PRT

<213> Enterobacter cloacae

<400> 6822

Pro Pro Arg Ser Glu Ile Leu Pro Met Leu Arg Ile Ala Lys Glu Ala
 1 5 10 15
 Leu Thr Phe Asp Asp Val Leu Leu Val Pro Ala His Ser Thr Val Leu
 20 25 30
 Pro Asn Thr Ala Asp Leu Ser Thr Gln Leu Thr Lys Thr Ile Arg Leu
 35 40 45
 Asn Ile Pro Met Leu Ser Ala Ala Met Asp Thr Val Thr Glu Ala Arg
 50 55 60
 Leu Ala Ile Ala Leu Ala Gln Glu Gly Gly Ile Gly Phe Ile His Lys
 65 70 75 80

Asn Met Ser Ile Glu Arg Gln Ala Glu Glu Val Arg Arg Val Lys Lys
 85 90 95
 His Glu Ser Gly Ile Val Ser Asp Pro Gln Thr Val Leu Pro Thr Thr
 100 105 110
 Thr Leu His Glu Val Lys Ala Leu Thr Glu Arg Asn Gly Phe Ala Gly
 115 120 125
 Tyr Pro Val Val Thr Glu Asp Asn Glu Leu Val Gly Ile Ile Thr Gly
 130 135 140
 Arg Asp Val Arg Phe Val Thr Asp Leu Asn Gln Pro Val Ser Val Tyr
 145 150 155 160
 Met Thr Pro Lys Glu Arg Leu Val Thr Val Arg Glu Gly Glu Thr Arg
 165 170 175
 Asp Val Val Leu Ala Lys Met His Glu Lys Arg Val Glu Lys Ala Leu
 180 185 190
 Val Val Asp Ala Asn Phe His Leu Arg Gly Met Ile Thr Val Lys Asp
 195 200 205
 Phe Gln Lys Ala Glu Arg Lys Pro Asn Ala Cys Lys Asp Glu His Gly
 210 215 220
 Arg Leu Arg Val Gly Ala Ala Val Gly Ala Gly Ala Asn Glu Gln
 225 230 235 240
 Arg Val Asp Ala Leu Val Ala Ala Gly Val Asp Val Leu Leu Ile Asp
 245 250 255
 Ser Ser His Gly His Ser Glu Gly Val Leu Gln Arg Ile Arg Glu Thr
 260 265 270
 Arg Ala Lys Tyr Pro Asp Leu Gln Ile Ile Gly Gly Asn Val Ala Thr
 275 280 285
 Gly Ala Gly Ala Arg Ala Leu Ala Glu Ala Gly Cys Ser Ala Val Lys
 290 295 300
 Val Gly Ile Gly Pro Gly Ser Ile Cys Thr Thr Arg Ile Val Thr Gly
 305 310 315 320
 Val Gly Val Pro Gln Ile Thr Ala Val Ser Asp Ala Val Glu Ala Leu
 325 330 335
 Glu Gly Thr Gly Ile Pro Val Ile Ala Asp Gly Gly Ile Arg Phe Ser
 340 345 350
 Gly Asp Ile Ala Lys Ala Ile Ala Ala Gly Ala Ala Val Met Val
 355 360 365
 Gly Ser Met Leu Ala Gly Thr Glu Glu Ser Pro Gly Glu Ile Glu Leu
 370 375 380
 Tyr Gln Gly Arg Ser Tyr Lys Ser Tyr Arg Gly Met Gly Ser Leu Gly
 385 390 395 400
 Ala Met Ser Lys Gly Ser Ser Asp Arg Tyr Phe Gln Thr Asp Asn Ala
 405 410 415
 Ala Asp Lys Leu Val Pro Glu Gly Ile Glu Gly Arg Val Ala Tyr Lys
 420 425 430
 Gly Arg Leu Lys Glu Ile Ile His Gln Gln Met Gly Gly Leu Arg Ser
 435 440 445
 Cys Met Gly Leu Thr Gly Cys Gly Thr Ile Asp Leu Leu Arg Thr Lys
 450 455 460
 Ala Glu Phe Val Arg Ile Ser Gly Ala Gly Ile Gln Glu Ser His Val
 465 470 475 480
 His Asp Val Thr Ile Thr Lys Glu Ser Pro Asn Tyr Arg Leu Gly Ser
 485 490 495

<210> 6823

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 6823

Ser Ser Ser Leu Phe Arg Tyr Val Ala Cys Trp Lys Met Arg Lys Leu
 1 5 10 15
 Asn Arg Leu Pro Lys Pro Asp Thr Ile Gln Ser Ala Gly Ala Val Val
 20 25 30
 Leu Ser Arg Pro Asn Ser Thr Gly Glu Ser Met Ser Ile Thr Cys Pro
 35 40 45
 Asp Cys His Ala Ala Leu Glu Pro Gln Asn Gly Ile Ala His Cys Asp
 50 55 60
 Ser Cys Asn Lys Asp Ile Pro Leu Glu Ala Arg Cys Pro Asp Cys His
 65 70 75 80
 Gln Pro Leu Gln Val Leu Lys Ala Cys Gly Ala Val Asp Tyr Phe Cys
 85 90 95
 Gln Asn Gly His Gly Leu Ile Ser Lys Lys Arg Val Glu Phe Val Arg
 100 105 110
 Ala Gly Ala
 115

<210> 6824

<211> 562

<212> PRT

<213> Enterobacter cloacae

<400> 6824

Arg Ser Pro Lys Ser Pro Arg Thr Thr Val Trp Ala Pro Asp Lys Phe
 1 5 10 15
 Pro Arg Pro Ala Gln Cys Arg Ala Leu Cys Phe Val Ser Leu Ala Ser
 20 25 30
 Glu Leu Ala Ser Met Thr Glu Asn Ile His Lys His Arg Ile Leu Ile
 35 40 45
 Leu Asp Phe Gly Ser Gln Tyr Thr Gln Leu Val Ala Arg Arg Val Arg
 50 55 60
 Glu Leu Gly Val Tyr Cys Glu Leu Trp Ala Trp Asp Val Thr Glu Ala
 65 70 75 80
 Gln Ile Arg Glu Phe Asn Pro Ser Gly Ile Ile Leu Ser Gly Gly Pro
 85 90 95
 Glu Ser Thr Thr Glu Glu Asn Ser Pro Arg Ala Pro Gln Tyr Val Phe
 100 105 110
 Glu Ala Gly Val Pro Val Phe Gly Val Cys Tyr Gly Met Gln Thr Met
 115 120 125
 Ala Met Gln Leu Gly Gly His Val Glu Gly Ser Asn Glu Arg Glu Phe
 130 135 140
 Gly Tyr Ala Gln Val Glu Val Val Thr Asp Ser Ala Leu Val Arg Gly
 145 150 155 160
 Ile Glu Asp Ser Leu Thr Ala Asp Gly Lys Pro Leu Leu Asp Val Trp
 165 170 175
 Met Ser His Gly Asp Lys Val Thr Ala Ile Pro Ser Asp Phe Val Thr
 180 185 190
 Val Ala Ser Thr Glu Ser Cys Pro Phe Ala Ile Met Ala Asn Glu Glu
 195 200 205
 Lys Arg Phe Tyr Gly Val Gln Phe His Pro Glu Val Thr His Thr Arg
 210 215 220
 Gln Gly Met Arg Met Leu Glu Arg Phe Val Arg Asp Ile Cys Gln Cys
 225 230 235 240
 Glu Ala Leu Trp Thr Pro Ala Lys Ile Ile Asp Asp Ala Val Glu Arg
 245 250 255
 Ile Arg Gln Gln Val Gly Asp Asp Lys Val Ile Leu Gly Leu Ser Gly
 260 265 270
 Gly Val Asp Ser Ser Val Thr Ala Met Leu Leu His Arg Ala Ile Gly
 275 280 285
 Lys Asn Leu Thr Cys Val Phe Val Asp Asn Gly Leu Leu Arg Leu Asn
 290 295 300

Glu Ala Lys Gln Val Met Asp Met Phe Gly Asp His Phe Gly Leu Asn
 305 310 315 320
 Ile Val His Val Glu Gly Glu Gln Arg Phe Leu Asp Ala Leu Lys Gly
 325 330 335
 Glu Asn Asp Pro Glu Ala Lys Arg Lys Ile Ile Gly Arg Val Phe Val
 340 345 350
 Glu Val Phe Asp Glu Glu Ala Leu Lys Leu Glu Asp Val Lys Trp Leu
 355 360 365
 Ala Gln Gly Thr Ile Tyr Pro Asp Val Ile Glu Ser Ala Ala Ser Ala
 370 375 380
 Thr Gly Lys Ala His Val Ile Lys Ser His His Asn Val Gly Gly Leu
 385 390 395 400
 Pro Lys Glu Met Lys Met Gly Leu Val Glu Pro Leu Arg Glu Leu Phe
 405 410 415
 Lys Asp Glu Val Arg Lys Ile Gly Leu Glu Leu Gly Leu Pro Tyr Asp
 420 425 430
 Met Leu Tyr Arg His Pro Phe Pro Gly Pro Gly Leu Gly Val Arg Val
 435 440 445
 Leu Gly Glu Val Lys Lys Glu Tyr Cys Asp Leu Leu Arg Arg Ala Asp
 450 455 460
 Ala Ile Phe Ile Glu Glu Leu His Lys Ala Asp Leu Tyr Asn Lys Val
 465 470 475 480
 Ser Gln Ala Phe Thr Val Phe Leu Pro Val Arg Ser Val Gly Val Met
 485 490 495
 Gly Asp Gly Arg Lys Tyr Asp Trp Val Val Ser Leu Arg Ala Val Glu
 500 505 510
 Thr Ile Asp Phe Met Thr Ala His Trp Ala His Leu Pro Tyr Asp Phe
 515 520 525
 Leu Gly Arg Val Ser Asn Arg Ile Ile Asn Glu Val Asn Gly Ile Ser
 530 535 540
 Arg Val Val Tyr Asp Ile Ser Gly Lys Pro Pro Ala Thr Ile Glu Trp
 545 550 555 560
 Glu

<210> 6825

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 6825

Thr Tyr Ser Ala Asp Leu Pro Ser Tyr Phe Cys Met Gly Cys Val Val
 1 5 10 15
 Glu Met Phe Ala Leu Thr Tyr Thr Leu Lys Lys Thr Arg Arg His Ser
 20 25 30
 Met Lys Glu Asn Asp Ile Val Glu Ile Leu Thr Thr Thr Arg Ser Ile
 35 40 45
 Ala Leu Val Gly Ala Ser Asp Lys Pro Asp Arg Pro Ser Tyr Arg Val
 50 55 60
 Met Lys Tyr Leu Leu Asp Gln Gly Tyr His Val Ile Pro Val Ser Pro
 65 70 75 80
 Lys Val Ala Gly Lys Thr Leu Leu Gly Gln Gln Gly Tyr Ala Thr Leu
 85 90 95
 Ala Asp Val Pro Glu Lys Val Asp Met Val Asp Val Phe Arg Asn Ser
 100 105 110
 Glu Ala Ala Trp Gly Val Ala Gln Glu Ala Ile Ala Ile Gly Ala Lys
 115 120 125
 Thr Leu Trp Met Gln Leu Gly Val Ile Asn Glu Gln Ala Ala Val Leu
 130 135 140
 Ala Arg Asp Ala Gly Leu Lys Val Val Met Asp Arg Cys Pro Ala Ile
 145 150 155 160

Asp Ile Pro Arg Leu Gly Leu Ala Lys
165 170

<210> 6826

<211> 234

<212> PRT

<213> *Enterobacter cloacae*

<400> 6826

Val Ala Tyr Phe Pro Ala Asn Gly Ser Val Ser Lys Lys Tyr Arg Gly
1 5 10 15
Tyr Cys Met Ile Phe Asn Gly Ile Ile Met Lys Lys Ile Ser Tyr Glu
20 25 30
Arg Ile Tyr Gln Ser Gln Glu Tyr Leu Ser Pro Leu Gly Glu Ile His
35 40 45
His Arg Ala Leu Phe Gly Gly Tyr Thr Leu Ala Val Asp Glu Ala Val
50 55 60
Phe Ala Met Val Ser Asp Gly Glu Leu Tyr Leu Arg Ala Cys Glu Gln
65 70 75 80
Ser Ala Lys Tyr Cys Val Lys Asn Ala Ser Ser Phe Leu Thr Leu Met
85 90 95
Lys Arg Gly Arg Pro Val Leu Leu Asn Tyr Tyr Arg Val Asp Glu Gly
100 105 110
Leu Trp Gln Asn Arg Glu Lys Leu Leu Gln Leu Ser Ser Phe Ala Leu
115 120 125
Asp Ala Ala Arg Lys Glu Arg Tyr Gln Arg His Gln Arg Asn Arg Leu
130 135 140
Lys Asp Leu Pro Asn Leu Thr Phe Gln Ile Glu Val Leu Leu Met Glu
145 150 155 160
Ala Gly Ile Thr Asn Glu Glu Thr Leu Arg Gln Leu Gly Ala Lys Thr
165 170 175
Ser Trp Leu Lys Met Arg Ser Lys Asn Lys Ala Leu Ser Ile Arg Val
180 185 190
Leu Phe Ala Leu Glu Gly Ala Ile Glu Gly Leu His Glu Ala Ala Leu
195 200 205
Pro Ala Asp Ile Arg Arg Glu Leu Thr Glu Trp Phe Asn Ala Leu Pro
210 215 220
Glu Ser Gln Gly His His Ser Ala Arg
225 230

<210> 6827

<211> 692

<212> PRT

<213> *Enterobacter cloacae*

<400> 6827

Pro Arg Gly Ser Arg Gln Asp Met Glu Leu Lys Ala Thr Ser Met Gly
1 5 10 15
Lys Arg Leu Ala Gln His Pro Tyr Asp Lys Val Val Leu Leu Asn Ala
20 25 30
Gly Val Lys Val Ser Gly Glu Arg His Glu Tyr Leu Ile Pro Phe Asn
35 40 45
Gln Leu Leu Ala Ile His Cys Lys Arg Gly Leu Val Trp Gly Glu Leu
50 55 60
Glu Phe Val Leu Pro Ala Asp Lys Val Val Arg Leu His Gly Thr Glu
65 70 75 80
Trp Ala Glu Thr Gln Arg Phe His Tyr His Leu Asn Thr Arg Trp Gln
85 90 95
Gln Trp Ser Gln Glu Met Ser Val Ile Ala Ala Gln Val Leu Gln Gln
100 105 110
Val Leu Asp Asp Ile Ala Leu Ser Asn Thr Gln Gln Lys Trp Leu Thr

115 120 125
 Arg Gln Gln Thr Ala Gly Leu Gln His Lys Ile Ala Gln Ala Leu Thr
 130 135 140
 Ala Leu Pro Leu Pro Val Ala Arg Leu Glu Glu Phe Asp Asn Cys Arg
 145 150 155 160
 Asp Ala Trp Arg Lys Cys Gln Ala Trp Leu Asn Asp Ile Glu Lys Ser
 165 170 175
 Arg Leu Ala His Asn Gln Ala Trp Thr Glu Ala Met Leu Thr Gln Tyr
 180 185 190
 Ala Asp Phe Phe Ser Thr Val Glu Ser Ser Pro Leu Asn Pro Ala Gln
 195 200 205
 Ala Arg Ala Val Val Asn Gly Glu Gln Ser Leu Leu Val Leu Ala Gly
 210 215 220
 Ala Gly Ser Gly Lys Thr Ser Val Leu Val Ala Arg Ala Gly Trp Leu
 225 230 235 240
 Leu Thr Thr Gly Glu Ala Val Ala Asp Gln Ile Leu Leu Leu Ala Phe
 245 250 255
 Gly Arg Lys Ala Ala Gln Glu Met Asp Glu Arg Ile Gln Ala Arg Leu
 260 265 270
 His Thr Gln Asp Ile Ser Ala Arg Thr Phe His Ser Leu Ala Leu His
 275 280 285
 Ile Ile Gln Gln Gly Ser Lys Lys Val Pro Val Val Ser Lys Leu Glu
 290 295 300
 Asn Asp Ala Gln Ala Arg Gln Thr Leu Phe Ile Lys Ala Trp Arg Gln
 305 310 315 320
 Gln Cys Ser Glu Lys Lys Ala Gln Ala Lys Gly Trp Arg Gln Trp Leu
 325 330 335
 Glu Glu Glu Leu Asn Trp Glu Val Pro Glu Gly Ser Phe Trp Gln Asp
 340 345 350
 Glu Lys Leu Ala Arg Arg Leu Gly Ser Arg Leu Asp Arg Trp Val Ser
 355 360 365
 Leu Met Arg Met His Gly Gly Ser Gln Ala Glu Met Ile Glu Ser Ala
 370 375 380
 Pro Glu Ser Ile Arg Ala Val Phe Ser Lys Arg Val Lys Leu Met Ala
 385 390 395 400
 Pro Met Leu Lys Ala Trp Lys Thr Ala Leu Lys Asp Glu Asn Ala Val
 405 410 415
 Asp Phe Ser Gly Leu Ile His Gln Ala Ile Ile Leu Glu Lys Gly
 420 425 430
 Arg Phe Val Ser Pro Trp Lys His Ile Leu Val Asp Glu Phe Gln Asp
 435 440 445
 Ile Ser Pro Gln Arg Ala Ala Leu Leu Ser Ala Leu Arg Ala Gln Asn
 450 455 460
 Lys His Thr Ser Leu Phe Ala Val Gly Asp Asp Trp Gln Ala Ile Tyr
 465 470 475 480
 Arg Phe Ser Gly Ala Gln Leu Ser Leu Thr Thr Ala Phe His His Tyr
 485 490 495
 Phe Gly Glu Gly Asp Arg Ser Asp Leu Asp Thr Thr Tyr Arg Phe Asn
 500 505 510
 Ser Arg Ile Gly Glu Ile Ala Asn Arg Phe Ile Gln Gln Asn Pro His
 515 520 525
 Gln Leu Ser Lys Pro Leu Asn Ser Leu Arg Ser Gly Asp Lys Lys Ala
 530 535 540
 Val Thr Leu Leu Ala Asp Asp Gln Leu Glu Pro Leu Leu Asp Lys Leu
 545 550 555 560
 Ser Gly Tyr Ala Lys Pro Asp Glu Arg Ile Leu Val Leu Ala Arg Tyr
 565 570 575
 His His Leu Lys Pro Thr Ala Leu Glu Lys Ala Ala Thr Arg Trp Pro
 580 585 590
 Lys Leu Gln Leu Asp Phe Met Thr Ile His Ala Ser Lys Gly Gln Gln
 595 600 605

Ala Asp Tyr Val Ile Val Val Gly Leu Lys Glu Gly Ser Asp Gly Phe
 610 615 620
 Pro Ala Pro Ala Arg Glu Ser Val Met Glu Glu Ala Leu Leu Pro Val
 625 630 635 640
 Pro Glu Asp Phe Pro Asp Ala Glu Glu Arg Arg Leu Leu Tyr Val Ala
 645 650 655
 Ile Thr Arg Ala Arg His Arg Val Trp Leu Phe Asn Lys Glu Glu
 660 665 670
 Pro Ser Val Phe Val Asp Ile Leu Lys Ser Ile Asp Val Pro Val Ala
 675 680 685
 Arg Lys Pro
 690

<210> 6828

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6828

Gly Gln Ile Gly Arg Ile Cys Leu Tyr Val Ser Lys Arg Val Tyr Arg
 1 5 10 15
 Lys Ile Leu Ile His Ser Tyr Arg Val Val Cys Leu Gln Glu Ser Ala
 20 25 30
 Met Lys Thr Gly Ile Ala Trp Ala Val Val Ala Leu Ile Met Pro Val
 35 40 45
 Cys Val Phe Ala Thr Thr Leu Arg Leu Thr Thr Asp Ile Asp Leu Leu
 50 55 60
 Val Leu Asp Gly Lys Lys Val Ser Ser Ser Leu Leu Arg Gly Ala Asp
 65 70 75 80
 Ser Ile Glu Leu Asp Asn Gly Pro His Gln Leu Val Phe Arg Val Glu
 85 90 95
 Lys Thr Ile Arg Leu Ala Asp Asp Glu Gln Gln Val Tyr Ile Ser Pro
 100 105 110
 Pro Leu Val Val Ser Phe Asn Thr Gln Arg Ile Ser Gln Val Asn Phe
 115 120 125
 Arg Leu Pro Arg Leu Glu Thr Glu Lys Glu Ser Leu Ala Phe Asp Ala
 130 135 140
 Ser Pro Arg Ile Glu Leu Val Asp Gly Asp Ser Met Pro Ile Pro Val
 145 150 155 160
 Lys Leu Asp Ile Leu Ala Leu Thr Lys Arg Pro Lys Gly Thr Asp Tyr
 165 170 175
 Glu Ala Asp Thr Glu Thr Tyr Asn Arg Ala Ser Arg Arg Ala Ser Leu
 180 185 190
 Pro Gln Phe Ala Thr Met Met Ala Asp Asp Ser Thr Leu Leu Ser Gly
 195 200 205
 Val Ser Glu Leu Asp Val Leu Pro Pro Gln Ser Gln Thr Leu Thr Glu
 210 215 220
 Gln Arg Leu Lys Phe Trp Phe Gln Asn Ala Asp Pro Asp Thr Arg Ala
 225 230 235 240
 Arg Phe Leu Gln Trp Ala Lys Gln Gln Pro Ser Ser
 245 250

<210> 6829

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 6829

Cys Val Lys Arg Gly Ser Gly Thr Cys Ala Pro Arg Tyr Pro Gly Tyr
 1 5 10 15
 Ala Asn Ala Pro Glu Cys Ala His Pro Ser Pro Ala Pro Pro Cys Asp

	20		25		30
Gln Arg Pro Ala Ala Lys Ser	Gly Arg Gln Pro Pro Arg Leu Ser				
35	40	45			
Glu Ala Ser Pro Arg Val Pro	Pro Ala Pro Thr Phe Cys Arg Ser Arg				
50	55	60			
Arg Leu Pro Ala Leu Lys Glu Thr Ala Arg His Ser Pro Arg Arg Ala					
65	70	75			80
Pro Gly Gln Asp					

85

<210> 6830

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 6830

Gln Ile Met Ser Val Arg Leu Val Leu Ala Lys Gly Arg Glu Lys Ser					
1	5	10	15		
Leu Leu Arg Arg His Pro Trp Val Phe Ser Gly Ala Val Ala Arg Met					
20	25	30			
Glu Gly Lys Ala Ser Leu Gly Glu Thr Ile Asp Ile Val Asp His Gln					
35	40	45			
Gly Lys Trp Leu Ala Arg Gly Ala Tyr Ser Pro Ala Ser Gln Ile Arg					
50	55	60			
Ala Arg Val Trp Thr Phe Asp Lys Glu Glu Ala Ile Asp Ile Asp Phe					
65	70	75			80
Phe Val Arg Arg Leu Gln Gln Ala Gln Gln Trp Arg Glu Trp Leu Ala					
85	90	95			
Lys Arg Asp Gly Leu Asp Ser Tyr Arg Leu Ile Ala Gly Glu Ser Asp					
100	105	110			
Gly Leu Pro Gly Val Thr Ile Asp Arg Phe Gly Asn Phe Leu Val Leu					
115	120	125			
Gln Leu Leu Ser Ala Gly Ala Glu Tyr Gln Arg Ala Ala Leu Ile Ser					
130	135	140			
Ala Leu Gln Thr Leu Phe Pro Glu Cys Ala Ile Tyr Asp Arg Ser Asp					
145	150	155			160
Val Ala Val Arg Lys Lys Glu Gly Met Glu Leu Thr Gln Gly Pro Val					
165	170	175			
Thr Gly Glu Leu Pro Pro Ala Leu Leu Pro Ile Glu Glu His Gly Met					
180	185	190			
Lys Leu Leu Val Asp Ile Gln Gly Gly His Lys Thr Gly Tyr Tyr Leu					
195	200	205			
Asp Gln Arg Asp Ser Arg Leu Ala Thr Arg Gln Tyr Val Ala Asp Arg					
210	215	220			
Arg Val Leu Asn Cys Phe Ser Tyr Thr Gly Gly Phe Ala Val Ser Ala					
225	230	235			240
Leu Met Gly Gly Cys Ala Gln Val Val Ser Val Asp Thr Ser Gln Glu					
245	250	255			
Ala Leu Asp Val Ala Lys Gln Asn Val Glu Leu Asn Lys Leu Asp Leu					
260	265	270			
Ser Lys Ala Glu Phe Val Arg Asp Asp Val Phe Lys Leu Leu Arg Lys					
275	280	285			
Tyr Arg Asp Gln Gly Glu Lys Phe Asp Val Ile Val Met Asp Pro Pro					
290	295	300			
Lys Phe Val Glu Asn Lys Ser Gln Leu Met Gly Ala Cys Arg Gly Tyr					
305	310	315			320
Lys Asp Ile Asn Met Leu Ala Ile Gln Leu Leu Asn Pro Gly Gly Val					
325	330	335			
Leu Leu Thr Phe Ser Cys Ser Gly Leu Met Thr Thr Asp Leu Phe Gln					
340	345	350			
Lys Ile Ile Ala Asp Ala Ala Ile Asp Ala Gly Arg Asp Val Gln Phe					

355 360 365
 Ile Glu Gln Phe Arg Gln Ala Ala Asp His Pro Val Ile Ala Thr Tyr
 370 375 380
 Pro Glu Gly Leu Tyr Leu Lys Gly Phe Ala Cys Arg Val Met
 385 390 395

<210> 6831
 <211> 116
 <212> PRT
 <213> Enterobacter cloacae

<400> 6831
 Cys Val Cys Asn Val Ser Arg Glu Val Thr Met Ile Ala Ser Lys Phe
 1 5 10 15
 Gly Ile Gly Gln Gln Val Arg His Thr Leu Leu Gly Tyr Leu Gly Val
 20 25 30
 Val Val Asp Ile Asp Pro Glu Tyr Ser Leu Asp Glu Pro Ser Ala Asp
 35 40 45
 Asp Leu Ala Val Asp Ala Glu Leu Arg Ala Ala Pro Trp Tyr His Val
 50 55 60
 Val Met Glu Gly Asp Asp Gly Gln Pro Val His Thr Tyr Leu Ala Gly
 65 70 75 80
 Ala Gln Leu Ser Gly Glu Leu Gln Asp Glu His Pro Glu Gln Pro Thr
 85 90 95
 Met Asp Glu Leu Ala Gln Thr Ile Arg Lys Gln Leu Gln Ala Pro Arg
 100 105 110
 Leu Arg Asn
 115

<210> 6832
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 6832
 Gly Phe Met Arg Thr Val Leu Asn Val Leu Asn Phe Val Leu Gly Gly
 1 5 10 15
 Phe Ala Thr Thr Leu Ser Trp Leu Phe Ala Thr Leu Val Ser Ile Val
 20 25 30
 Leu Ile Phe Thr Leu Pro Leu Thr Arg Ser Cys Trp Glu Ile Thr Lys
 35 40 45
 Leu Ser Leu Val Pro Tyr Gly Asn Glu Ala Val His Val Asp Glu Leu
 50 55 60
 Glu Pro Glu Arg Lys Asn Ala Leu Met Asn Thr Gly Gly Thr Leu Leu
 65 70 75 80
 Asn Ile Leu Trp Leu Ile Phe Phe Gly Trp Trp Leu Cys Leu Met His
 85 90 95
 Ile Phe Ala Gly Ile Ala Gln Cys Ile Thr Ile Ile Gly Ile Pro Val
 100 105 110
 Gly Ile Ala Asn Phe Lys Ile Ala Thr Ile Ala Leu Trp Pro Val Gly
 115 120 125
 Arg Arg Val Val Pro Val Glu Val Ala Gln Ala Ala Arg Glu Ala Asn
 130 135 140
 Ala Arg Arg Arg Phe Gln
 145 150

<210> 6833
 <211> 726
 <212> PRT
 <213> Enterobacter cloacae

<400> 6833

Gly Leu Ala Ala Leu Met Leu Ser Pro Leu Leu Arg Arg Tyr Thr Trp
 1 5 10 15
 Asn Ser Asn Trp Leu Tyr Asn Val Arg Ile Phe Ile Ala Leu Cys Gly
 20 25 30
 Thr Val Ala Leu Pro Trp Trp Leu Asn Asp Val Lys Leu Thr Ile Pro
 35 40 45
 Leu Thr Leu Gly Val Val Ala Gly Ala Leu Ala Asp Leu Asp Asp Arg
 50 55 60
 Leu Ala Gly Arg Leu Arg Asn Leu Val Ile Thr Leu Val Cys Phe Phe
 65 70 75 80
 Ile Ala Ser Ala Ser Val Glu Leu Leu Phe Pro Trp Pro Trp Leu Phe
 85 90 95
 Ala Leu Gly Leu Thr Val Ser Thr Ser Gly Phe Ile Leu Leu Gly Gly
 100 105 110
 Leu Gly Gln Arg Tyr Ala Thr Ile Ala Phe Gly Ala Leu Leu Ile Ala
 115 120 125
 Ile Tyr Thr Met Leu Gly Val Ser Leu Tyr Glu Gln Trp Tyr Gln Gln
 130 135 140
 Pro Val Leu Leu Met Leu Gly Ala Ile Trp Tyr Asn Leu Leu Thr Leu
 145 150 155 160
 Thr Gly His Leu Ile Phe Pro Val Arg Ala Leu Gln Asp Asn Ile Ala
 165 170 175
 Arg Ser Tyr Glu Gln Leu Ala His Tyr Leu Glu Leu Lys Ser Arg Leu
 180 185 190
 Phe Asp Pro Asp Ile Glu Glu Asp Ser Gln Ala Pro Leu Tyr Asp Leu
 195 200 205
 Ala Leu Ala Asn Gly Gln Leu Val Ala Thr Leu Asn Gln Thr Lys Ala
 210 215 220
 Ser Leu Leu Thr Arg Leu Arg Gly Asp Arg Gly Gln Arg Gly Thr Arg
 225 230 235 240
 Arg Thr Leu His Tyr Tyr Phe Val Ala Gln Asp Ile His Glu Arg Ala
 245 250 255
 Ser Ser Ser His Val Gln Tyr Ala Asp Leu Arg Glu Lys Phe Arg Tyr
 260 265 270
 Ser Asp Val Met Phe Arg Phe Gln Arg Leu Leu Ser Met Gln Ser Gln
 275 280 285
 Ala Cys Gln Gln Leu Ala Arg Ser Ile Leu Leu Arg Thr Pro Tyr Gln
 290 295 300
 His Asp Pro Cys Phe Glu Arg Ala Phe Ser His Leu Asp Ala Ala Leu
 305 310 315 320
 Asp Arg Val Gln Ala Ser Gly Thr Ser Pro Glu Gln Phe Lys Ala Leu
 325 330 335
 Gly Phe Leu Leu Asn Asn Leu Arg Ala Ile Asp Ala Gln Leu Ala Thr
 340 345 350
 Ile Glu Ser Glu Gln Ala Met Ala Met Pro Gly Asn Asp Ala Asp Asn
 355 360 365
 Gln Leu Ala Asp Asp Ser Leu Asn Gly Phe Ser Asp Met Trp Leu Arg
 370 375 380
 Leu Ser Arg His Phe Thr Pro Glu Ser Ala Leu Phe Arg His Ala Val
 385 390 395 400
 Arg Met Ser Leu Val Leu Cys Val Gly Tyr Ala Phe Ile Gln Ile Thr
 405 410 415
 Gly Leu His His Gly Tyr Trp Ile Leu Leu Thr Ser Leu Phe Val Cys
 420 425 430
 Gln Pro Asn Tyr Asn Ala Thr Arg His Arg Leu Ala Leu Arg Ile Val
 435 440 445
 Gly Thr Leu Val Gly Val Ala Ile Gly Leu Pro Val Leu Tyr Phe Val
 450 455 460
 Pro Ser Val Glu Gly Gln Leu Leu Leu Ile Val Ile Thr Gly Val Leu
 465 470 475 480

Phe Phe Ala Phe Arg Asn Val Gln Tyr Ala His Ala Thr Met Phe Ile
 485 490 495
 Thr Leu Leu Val Leu Leu Cys Phe Asn Leu Leu Gly Glu Gly Phe Glu
 500 505 510
 Val Ala Leu Pro Arg Val Ile Asp Thr Leu Ile Gly Cys Ala Ile Ala
 515 520 525
 Trp Ala Ala Val Ser Phe Ile Trp Pro Asp Trp Arg Phe Arg Asn Leu
 530 535 540
 Pro Arg Val Ser Asp Arg Ala Met Asn Ala Asn Cys Arg Tyr Leu Asp
 545 550 555 560
 Ala Ile Leu Glu Gln Tyr His Gln Gly Arg Asp Asn Arg Leu Ala Tyr
 565 570 575
 Arg Ile Ala Arg Arg Asp Ala His Asn Thr Asp Ala Glu Leu Ala Ser
 580 585 590
 Val Val Ser Asn Met Ser Thr Glu Pro Arg Ala Thr Ala Glu Ile Arg
 595 600 605
 Glu Thr Ala Phe Arg Leu Leu Cys Leu Asn His Thr Phe Thr Ser Tyr
 610 615 620
 Ile Ser Thr Leu Gly Ala His Arg Glu Lys Leu Thr Asn Pro Asp Ile
 625 630 635 640
 Leu Ala Leu Leu Asp Asp Ala Val Cys Tyr Val Asp Asp Ala Leu His
 645 650 655
 His Gln Pro Ala Asp Glu Pro Arg Val His Gln Ala Leu Asp Glu Leu
 660 665 670
 Val Gln Arg Ile Ala His Leu Asp Pro Gly Thr Asp Asn Lys Ala Pro
 675 680 685
 Leu Val Leu Gln Gln Ile Gly Leu Leu Ile Ala Leu Leu Pro Glu Ile
 690 695 700
 Cys Arg Leu Arg Gln Gln Ile Ala Thr Trp Arg Asn Asp Gly Pro Ala
 705 710 715 720
 Thr Gln Ala Ala His
 725

<210> 6834

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 6834

Arg Gly Asn Leu Thr Asp Lys Ile Met Glu Leu Thr Thr Arg Thr Leu
 1 5 10 15
 Pro Ala Arg Lys His Ile Ala Leu Val Ala His Asp His Cys Lys Gln
 20 25 30
 Met Leu Leu Asn Trp Val Arg Arg His Gln Pro Leu Leu Gln His His
 35 40 45
 Ala Leu Ser Ala Thr Gly Thr Thr Gly Asn Leu Ile His Arg Glu Thr
 50 55 60
 Gly Leu Glu Val Asn Ala Met Leu Ser Gly Pro Met Gly Gly Asp Gln
 65 70 75 80
 Gln Val Gly Ala Gln Ile Ser Glu Gly Lys Ile Asp Val Leu Ile Phe
 85 90 95
 Phe Trp Asp Pro Leu Asn Ala Val Pro His Asp Pro Asp Val Lys Ala
 100 105 110
 Leu Leu Arg Leu Ala Thr Val Trp Asn Ile Pro Val Ala Thr Asn Leu
 115 120 125
 Ser Thr Ala Asp Phe Ile Ile Glu Ser Pro Gln Phe Asn Asp Pro Val
 130 135 140
 Glu Ile Leu Ile Pro Asp Tyr Gln Arg Tyr Leu Ala Glu Arg Leu Lys
 145 150 155 160

<210> 6835

<211> 224

<212> PRT

<213> *Enterobacter cloacae*

<400> 6835

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Gly Asn Lys Met Lys Lys Arg Val Leu Val Ile Ala Ala Leu Val Ser
1      5      10      15
Gly Ala Leu Ala Val Ser Gly Cys Thr Thr Asn Pro Tyr Thr Gly Glu
20      25      30
Arg Glu Ala Gly Lys Ser Gly Ile Gly Ala Gly Ile Gly Ser Leu Val
35      40      45
Gly Ala Gly Val Gly Val Leu Ser Ser Ser Lys Lys Asp Arg Gly Lys
50      55      60
Gly Ala Leu Ile Gly Ala Ala Ala Gly Ala Ala Leu Gly Gly Gly Val
65      70      75      80
Gly Tyr Tyr Met Asp Val Gln Glu Ala Lys Leu Arg Asp Lys Met Lys
85      90      95
Gly Thr Gly Val Ser Val Thr Arg Ser Gly Asp Asn Ile Ile Leu Asn
100     105     110
Met Pro Asn Asn Val Thr Phe Asp Ser Ser Ser Ala Thr Leu Lys Pro
115     120     125
Ala Gly Ala Asn Thr Leu Thr Gly Val Ala Ala Val Leu Lys Glu Tyr
130     135     140
Asn Lys Thr Ala Val Asn Val Ile Gly Tyr Thr Asp Ser Thr Gly Ser
145     150     155     160
Gln Asp Leu Asn Met Arg Leu Ser Gln Gln Arg Ala Asp Ser Val Ala
165     170     175
Ser Ser Leu Ile Thr Gln Gly Val Glu Ala Asn Arg Ile Arg Thr Ser
180     185     190
Gly Met Gly Pro Ala Asn Pro Ile Ala Ser Asn Ser Thr Ala Glu Gly
195     200     205
Lys Ala Gln Asn Arg Arg Val Glu Ile Thr Leu Ser Pro Val Gln
210     215     220

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<210> 6836

<211> 195

<212> PRT

<213> *Enterobacter cloacae*

<400> 6836

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Pro Met Gln Arg Cys Gly Trp Val Ser Gln Asp Gln Leu Tyr Ile Asp
1      5      10      15
Tyr His Asp Lys Glu Trp Gly Val Pro Glu Thr Asp Gly Lys Lys Leu
20      25      30
Phe Glu Met Ile Cys Leu Glu Gly Gln Gln Ala Gly Leu Ser Trp Ile
35      40      45
Thr Val Leu Lys Lys Arg Glu Asn Tyr Arg Lys Ala Phe His Gln Phe
50      55      60
Asp Pro Ala Ala Val Ala Met Thr Asp Asp Val Gln Lys Leu
65      70      75      80
Val Leu Asp Thr Gly Ile Ile Arg His Arg Gly Lys Ile Gln Ala Ile
85      90      95
Ile Gly Asn Ala Arg Ala Tyr Leu Ala Met Glu Gln Asn Gly Glu Pro
100     105     110
Phe Ser Ala Phe Val Trp Ser Phe Val Asp Asn Glu Pro Lys Val Thr
115     120     125
Gln Ala Ala Thr Leu Ala Glu Ile Pro Thr Ser Thr Pro Ala Ser Asp
130     135     140
Ala Leu Ser Lys Ala Leu Lys Lys Arg Gly Phe Lys Phe Val Gly Thr

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145 150 155 160
 Thr Ile Cys Tyr Ser Phe Met Gln Ala Cys Gly Leu Val Asn Asp His
 165 170 175
 Ile Thr Gly Cys Phe Cys His Pro Glu Gly His His Asp Pro Gln Met
 180 185 190

Ala Lys
 195

<210> 6837

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 6837

Lys Gln Asn Gly Asn Pro Val Ala Val Leu Val Phe Ala Pro Ser Pro
 1 5 10 15
 Val Gly Glu Gly Trp Gly Glu Gly Ile Arg Pro Pro Pro Gly Lys Leu
 20 25 30
 Leu Asp Ser Pro Asp Phe Pro Ala Lys Val Phe Ser Leu Asn Ser Gly
 35 40 45
 Lys Ser Ala Met Ile Lys Pro Thr Arg Ala Thr Ile Ser Asp Val Ala
 50 55 60
 Lys Ala Ala Lys Thr Gly Lys Thr Ser Ile Ser Arg Tyr Leu Asn Gly
 65 70 75 80
 Glu Lys His Leu Leu Ser Asp Ala Leu Leu Ala Arg Ile Glu Gln Ala
 85 90 95
 Ile Ala Asp Leu Asp Tyr Arg Pro Ser Leu Met Ala Arg Gly Leu Lys
 100 105 110
 Arg Gly Arg Thr Arg Leu Ile Gly Leu Ile Ala Asp Ile Thr Asn
 115 120 125
 Pro Tyr Ser Val Asn Val Leu Ser Gly Ile Glu Ala Ala Cys Arg Glu
 130 135 140
 Lys Gly Phe Thr Pro Leu Val Cys Asn Thr Asn Asn Glu Val Asp Gln
 145 150 155 160
 Glu Leu His Tyr Leu Asp Leu Leu Arg Ser Tyr Gln Val Glu Gly Ile
 165 170 175
 Val Val Asn Ala Val Gly Met Arg Glu Gly Leu Asn Arg Leu Gln
 180 185 190
 Gln Ser Ser Leu Pro Met Val Leu Ile Asp Arg Lys Ile Pro Glu Phe
 195 200 205
 Ala Cys Asp Val Val Gly Leu Asp Asn Thr Gln Ala Ala Thr Thr Ala
 210 215 220
 Thr Glu His Leu Ile Glu Gln Gly Phe Glu Ala Ile Leu Phe Leu Ser
 225 230 235 240
 Glu Pro Leu Gly Met Val Asn Thr Arg Arg Asp Arg Leu Ala Ala Phe
 245 250 255
 Arg Ala Thr Leu Ala Arg Tyr Pro Gly Val Ile Ala Glu Asn Ala Glu
 260 265 270
 Ile Pro Leu His Glu Ala Gly Gln Leu Asp Asn Thr Leu Arg Gln Phe
 275 280 285
 His Thr Arg His Arg Gly Met Arg Lys Ala Val Ile Ser Ala Asn Gly
 290 295 300
 Ala Leu Thr Leu Gln Val Ala Arg Ser Leu Lys Arg Ile Gly Leu His
 305 310 315 320
 Trp Gly Ser Asp Ile Gly Leu Leu Gly Phe Asp Glu Leu Glu Trp Ala
 325 330 335
 Glu Leu Ala Gly Val Gly Ile Thr Thr Leu Lys Gln Pro Thr Trp Gln
 340 345 350
 Ile Gly Tyr Ala Ala Val Glu Gln Val Val Arg Arg Ile Glu Gly Thr
 355 360 365
 Arg Asp Ala Val Arg Glu Gln Val Phe Ser Gly Glu Leu Ile Val Arg

370
Gly Ser Thr Ala Arg
385 390

380

<210> 6838
<211> 314
<212> PRT
<213> Enterobacter cloacae

<400> 6838
Thr Met His Lys Thr Leu Asp Val Ile Thr Ile Gly Glu Ala Met Ala
1 5 10 15
Met Phe Val Ala Thr Glu Thr Gly Glu Leu Ser Ala Val Glu His Phe
20 25 30
Ile Lys Arg Val Ala Gly Ala Glu Leu Asn Val Ala Thr Gly Leu Ala
35 40 45
Arg Leu Gly Leu Asn Val Gly Trp Val Ser Arg Val Gly Asn Asp Ser
50 55 60
Phe Gly His Phe Val Leu Asp Ser Leu Lys Lys Glu Gly Ile Asp Ala
65 70 75 80
Ala Gly Val Thr Leu Asp Gly Arg Phe Pro Thr Gly Phe Gln Leu Lys
85 90 95
Ser Lys Val Glu Asn Gly Thr Asp Pro Ile Val Glu Tyr Phe Arg Lys
100 105 110
Gly Ser Ala Ala Ser His Leu Ser Val Asp Asp Tyr His Ala Ala Tyr
115 120 125
Phe Ser Ser Ala Arg His Leu His Leu Ser Gly Val Ala Ala Leu
130 135 140
Ser Ala Ser Ser Tyr Asp Leu Leu Asp His Ala Ala Ser Ala Met Lys
145 150 155 160
Ala Gln Gly Lys Thr Ile Ser Phe Asp Pro Asn Leu Arg Pro Val Leu
165 170 175
Trp Lys Ser Glu Ala Glu Met Ala Glu Lys Leu Asn Arg Leu Ala Phe
180 185 190
Gln Ala Asp Trp Val Leu Pro Gly Ile Lys Glu Gly Met Ile Leu Thr
195 200 205
Gly Glu Ser Thr Pro Glu Gly Ile Ala Asp Phe Tyr Leu Asn Arg Gly
210 215 220
Val Lys Ala Val Val Leu Lys Thr Gly Ala Asp Gly Ala Trp Phe Lys
225 230 235 240
Thr Ala Asp Gly Glu Gln Gly Ala Val Ala Val Lys Val Asp Asn
245 250 255
Val Ile Asp Thr Val Gly Ala Gly Asp Gly Phe Ala Val Gly Val Ile
260 265 270
Ser Ala Leu Leu Glu Gly Lys Pro Leu Ser Gln Ala Val Ala Arg Gly
275 280 285
Asn Lys Ile Gly Ser Leu Ala Ile Gln Val Gln Gly Asp Ser Glu Gly
290 295 300
Leu Pro Thr Arg Ala Glu Leu Gly Val
305 310

<210> 6839
<211> 446
<212> PRT
<213> Enterobacter cloacae

<400> 6839
Ala Thr Val Tyr Pro Thr Asp Asn Gly Gly Asn Asn Leu Asn Asn Arg
1 5 10 15
Gly Lys Pro Met Asn Ser Ser Thr Asn Ala Val Lys Arg Trp Trp Tyr
20 25 30

Ile Met Pro Ile Val Phe Ile Thr Tyr Ser Leu Ala Tyr Leu Asp Arg
 35 40 45
 Ala Asn Phe Ser Phe Ala Ser Ala Ala Gly Ile Asn Glu Asp Leu Gly
 50 55 60
 Ile Thr Lys Gly Val Ser Ser Leu Leu Gly Ala Leu Phe Phe Leu Gly
 65 70 75 80
 Tyr Phe Phe Phe Gln Ile Pro Gly Ala Ile Tyr Ala Glu Arg Arg Ser
 85 90 95
 Val Arg Lys Leu Ile Phe Ile Cys Leu Ile Leu Trp Gly Ala Cys Ala
 100 105 110
 Ser Leu Thr Gly Val Val Asn Asn Ile Pro Ala Leu Ala Ala Ile Arg
 115 120 125
 Phe Ile Leu Gly Val Val Glu Ala Ala Val Met Pro Ala Met Leu Ile
 130 135 140
 Tyr Ile Ser Asn Trp Phe Thr Lys Ser Glu Arg Ser Arg Ala Asn Thr
 145 150 155 160
 Phe Leu Ile Leu Gly Asn Pro Val Thr Val Leu Trp Met Ser Val Val
 165 170 175
 Ser Gly Tyr Leu Ile Gln Ser Phe Gly Trp Arg Glu Met Phe Ile Ile
 180 185 190
 Glu Gly Val Pro Ala Ile Ile Trp Ala Phe Cys Trp Trp Val Leu Val
 195 200 205
 Lys Asp Lys Pro Ala Gln Ala Lys Trp Leu Ser Glu Asp Glu Lys Ala
 210 215 220
 Ala Leu Gln Ala Gln Leu Asp Lys Glu Gln Gln Gly Leu Lys Ala Val
 225 230 235 240
 Arg Asn Tyr Gly Glu Ala Phe Arg Ser Arg Asn Val Ile Leu Leu Cys
 245 250 255
 Ala Gln Tyr Phe Thr Trp Ser Ile Gly Val Tyr Gly Phe Val Leu Trp
 260 265 270
 Leu Pro Ser Ile Ile Arg Ser Gly Gly Glu Asn Leu Gly Met Val Glu
 275 280 285
 Val Gly Trp Leu Ser Ser Val Pro Tyr Leu Ala Ala Thr Ile Ala Met
 290 295 300
 Ile Ile Val Ser Trp Ala Ser Asp Lys Leu Gln Asn Arg Lys Leu Phe
 305 310 315 320
 Val Trp Pro Leu Leu Leu Ile Ala Ala Phe Ala Phe Ile Gly Ser Trp
 325 330 335
 Ala Val Gly Ala Asn His Phe Trp Val Ser Tyr Thr Leu Leu Val Ile
 340 345 350
 Ala Gly Ala Ala Met Tyr Ala Pro Tyr Gly Pro Phe Phe Ala Ile Ile
 355 360 365
 Pro Glu Met Leu Pro Arg Asn Val Ala Gly Gly Ala Met Ala Leu Ile
 370 375 380
 Asn Ser Met Gly Ala Leu Gly Ser Phe Phe Gly Ser Trp Phe Val Gly
 385 390 395 400
 Tyr Leu Asn Gly Ala Thr Gly Ser Pro Ser Ala Ser Tyr Ile Phe Met
 405 410 415
 Gly Val Ala Leu Phe Ala Ser Val Trp Leu Thr Leu Ile Val Lys Pro
 420 425 430
 Ala Asn Asn Gln Gln Leu Pro Val Gly Ala Arg His Ala
 435 440 445

<210> 6840

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 6840

Ile Leu Leu Lys Ser Thr Glu Ile Ser Met Lys Pro Ser Val Ile Leu
 1 5 10 15

Tyr Lys Ala Leu Pro Glu Asp Leu Gln Lys Arg Leu Glu Glu His Phe
 20 25 30
 Thr Val Thr Arg Val Lys Asn Leu Ser Pro Glu Thr Val Ala Gln His
 35 40 45
 Ala Asp Ala Phe Ala Ser Ala Glu Gly Leu Leu Gly Ser Ser Glu Lys
 50 55 60
 Val Asp Ala Ala Leu Leu Glu Lys Met Pro Lys Leu Arg Ala Thr Ser
 65 70 75 80
 Thr Val Ser Val Gly Tyr Asp Asn Phe Asp Val Asp Ala Leu Asn Ala
 85 90 95
 Pro Asn Ile Leu Leu Met His Thr Pro His Ala Leu Thr Glu Thr Val
 100 105 110
 Ala Asp Thr Leu Asn Ala Leu Val Leu Asn Thr Ala Arg Pro Val Met
 115 120 125
 Glu Ile Gly Glu Arg Val Lys Ala Gly Glu Trp Thr Lys Ser Ile Gly
 130 135 140
 Pro Asp Trp Phe Gly Val Asp Val His Gly Lys Thr Leu Gly Ile Val
 145 150 155 160
 Gly Met Gly Arg Ile Gly Leu Ala Leu Ala Gln Arg Ala His Phe Gly
 165 170 175
 Phe Asn Met Pro Ile Leu Tyr Asn Ala Arg Arg His His Ser Glu Ala
 180 185 190
 Glu Glu Arg Phe Asn Ala Leu Tyr Cys Glu Leu Asp Thr Leu Leu Arg
 195 200 205
 Glu Ala Asp Phe Val Cys Leu Ile Leu Pro Leu Thr Asp Glu Thr Arg
 210 215 220
 His Leu Ile Gly Lys Ala Ala Phe Glu Lys Met Lys Lys Ser Ala Ile
 225 230 235 240
 Phe Ile Asn Ala Gly Arg Gly Pro Val Val Asp Glu Lys Ala Leu Ile
 245 250 255
 Glu Ala Leu Gln Asn Gly Glu Ile His Ala Ala Gly Leu Asp Val Phe
 260 265 270
 Glu Gln Glu Pro Leu Pro Val Asp Ser Pro Leu Leu Thr Met Pro Asn
 275 280 285
 Val Val Ala Leu Pro His Ile Gly Ser Ala Thr His Glu Thr Arg Tyr
 290 295 300
 Asn Met Ala Ala Thr Ala Val Asp Asn Leu Ile Ala Ala Leu Gly Gly
 305 310 315 320
 Lys Val Asp Lys Asn Cys Val Asn Pro Gln Ile Gln Gln
 325 330

<210> 6841

<211> 169

<212> PRT

<213> *Enterobacter cloacae*

<400> 6841

Leu Phe His Leu Arg Glu Gln Gln His Val Ile Asn Val Leu Ser Ala
 1 5 10 15
 Val Thr Arg Leu Gly Ala Asn Leu Leu Ala Val Gly Asp Val Ile Arg
 20 25 30
 His Gly Val Gly Val Glu Pro His Leu Thr Leu His Gly Glu Gln Ile
 35 40 45
 Gly Ala Lys Ser Lys Leu Leu Gln Asn Ser Lys His Val Leu Leu Phe
 50 55 60
 Glu Ser Ala Leu Arg Ile Ile Thr Arg Thr Ala Leu Thr Asn Lys His
 65 70 75 80
 Thr Ala Gln Arg Glu Leu Arg Gly Gly Ile Ala Gly Val Ala Ala Val
 85 90 95
 Ser Tyr Lys Ile Leu Phe Leu Arg Gln Phe Arg Gly Gly Ile Ala Val
 100 105 110

Ile Thr Glu Asp Thr His Met Ile Pro Ala Arg Arg Phe Ala Asp Asn
 115 120 125
 Glu Asp His Val Ser Ile Ile Gln Pro Val Ser Arg Ser Leu Val Gly
 130 135 140
 Glu Leu Phe Gly Trp Val Asn Gln Arg Phe His Ile Ala Gly Phe Val
 145 150 155 160
 Arg Leu Ser Pro Gly Ile Lys Thr
 165

<210> 6842

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 6842

Lys Asn Ala Ala Leu Ser Leu Trp Ala Pro Pro Ser Val Thr Pro Leu
 1 5 10 15
 Cys Arg Pro Ala Gly Trp Ser Met Thr Thr Leu Arg Ala Ala Ser Ala
 20 25 30
 Ile Arg Arg Ala Thr Met Ile Arg Lys Trp Gln Ser Glu Asn Thr Ala
 35 40 45
 Pro Leu Leu Ser Leu Trp Leu Glu Ser Thr Thr Glu Ala His Pro Phe
 50 55 60
 Ile Asp Ala Ser Tyr Trp Gln Ala Asn Glu Ala Val Val Arg Asp Glu
 65 70 75 80
 Tyr Leu Pro Ala Ala Glu Thr Trp Val Trp Glu Glu Asn Gly Thr Leu
 85 90 95
 Cys Gly Phe Ile Ser Val Met Gln Phe Gln Phe Val Gly Ala Leu Phe
 100 105 110
 Val Ala Pro Ala Phe Ile Gly Lys Gly Ile Gly Arg Ala Leu Leu Asn
 115 120 125
 His Val Gln Gln His Tyr Pro Tyr Leu Thr Leu Glu Val Tyr Gln Lys
 130 135 140
 Asn Val Arg Ala Val Asn Phe Tyr His Ala Gln Gly Phe Arg Ile Glu
 145 150 155 160
 Asp Ser Ala Trp Gln Asp Asp Thr Gln His Pro Thr Trp Ile Met Ser
 165 170 175
 Trp Gln Ala Asp Gln Thr Pro
 180

<210> 6843

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6843

Val Thr Gly Ser Ala Leu Ala Phe Ser Ala Phe Ile Arg Ala His Gly
 1 5 10 15
 Arg Ile Trp Arg Trp Lys Glu Gly Gly Ile Cys Lys Asn Gly Ala Leu
 20 25 30
 Asn Val Leu Thr Gln Asp Leu Pro Ser Ser Lys Leu Gly Asn Gly Cys
 35 40 45
 Ala Gly Asn Thr Ala Leu Ala Trp Val Glu Lys Tyr Glu Gly Pro Ala
 50 55 60
 Leu Thr Leu Thr Ala Phe Asp Pro Pro Ala Ser Ser
 65 70 75

<210> 6844

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6844

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His Ile Ser Pro Asn Ser Ala Leu Ser Gly Val Ala Leu Met Met Ile
1      5      10      15
Lys Lys Ile Ser Gly Arg His Ala Ala Ser Gly Leu Val Gly Val Ser
20      25      30
Val Cys Leu Leu Phe Cys His Thr Ala Trp Gln Gln Glu Tyr
35      40      45
Ile Val Ser Asp Ala Gln Ser Asn Thr Thr Glu Arg Tyr Thr Trp Asp
50      55      60
Ala Asp His Gln Pro Arg Tyr Glu Asp Ile Leu Ala Glu Ile Asn
65      70      75      80
Arg Thr Gln Asn Ala Tyr Gly Val Tyr Pro Glu Arg Ser Leu Arg Phe
85      90      95
Gly Cys Gly Asn Arg Ser Glu Arg Trp Leu Glu Phe Ser Arg Gly Gly
100     105     110
Thr Phe His His Arg Ala Arg His Gly Val Ala His      125
115     120

```

<210> 6845

<211> 108

<212> PRT

<213> *Enterobacter cloacae*

<400> 6845

```

Asp Pro Tyr Leu Ala Arg Leu Glu Lys Thr Lys Gln Gly Gln Asp Leu
1      5      10      15
Lys Pro Val Tyr Asp Gln Val Tyr Glu Lys Val Val Thr Lys Pro Ser
20      25      30
Asn Ala Leu Gln Pro Leu Ile Pro Ala Ala Gln Val Phe Thr Gln Gln
35      40      45
Leu Val Gln Val Gly Asp Phe Ile Ser Glu Gln Gly Thr Gln Val Ser
50      55      60
Phe Val Ser Asn Gly Ile Gln Phe Pro Thr Ser Gln Gln Ala Ser Gln
65      70      75      80
Tyr Asn Ala Leu Ile Gly Pro Leu Ala Ser Gln His Gln Ala Phe Ser
85      90      95
Gln Ala Trp Ser Ala Ala Val Ala Ala Thr Glu
100     105

```

<210> 6846

<211> 98

<212> PRT

<213> *Enterobacter cloacae*

<400> 6846

```

Pro Phe Leu His Arg Leu Lys Ile Cys Asn Ala Ile His Gln Ala Gly
1      5      10      15
Arg His Asn Ile Phe Val Asn Lys Val Ile Ser Met Ser Ala Lys Met
20      25      30
Thr Gly Leu Val Lys Trp Phe Asn Ala Asp Lys Gly Phe Gly Phe Ile
35      40      45
Thr Pro Asp Asp Gly Ser Lys Asp Val Phe Val His Phe Ser Ala Ile
50      55      60
Gln Asn Asp Gly Tyr Lys Ser Leu Asp Glu Gly Gln Lys Val Ser Phe
65      70      75      80
Thr Ile Glu Ser Gly Ala Lys Gly Pro Ala Ala Gly Asn Val Val Ser
85      90      95
Leu

```

<210> 6847

<211> 178

<212> PRT

<213> *Enterobacter cloacae*

<400> 6847

```

Lys Lys Ser Val Val Ala Met Leu Leu Leu Ala Trp Trp Val Phe Gln
1      5      10      15
Ser Ala Cys Phe Phe Val Thr Pro Leu Leu Arg Gly Asn Arg Asn Ile
20      25      30
Ser Phe Gln Met His Lys Val Ile Arg Arg Asn Val Ile His Gly Thr
35      40      45
Pro Ile Thr Asn Leu Val Met Lys Ile Phe Ser Arg Ser Val Leu Thr
50      55      60
Ala Pro Arg Met Pro Thr Gly Phe Thr Leu Asn Asp Pro Ser Gly Ser
65      70      75      80
Asp Ala Glu Thr Val Leu Ser Val Gly Trp Asn Phe Pro Val Ala Gly
85      90      95
His Phe Thr Thr Gly Pro Val Met Ala Trp Arg Thr Asp Gly Ala Pro
100     105     110
Pro Val Thr Val Asn Ala Phe Glu Asp Thr Thr Thr Gln Ser Leu
115     120     125
Thr Asp Pro Leu Trp His Ala Ser Val Asn Ser Leu Gly Trp Arg Val
130     135     140
Asp Thr Gln Tyr Gly Asp Leu His Pro Trp Ala Lys Ile Ser Tyr Asn
145     150     155     160
Gln Gln Thr Glu Glu Tyr Leu Tyr Thr Leu Gly Leu Ser Ala Lys
165     170     175
Phe

```

<210> 6848

<211> 429

<212> PRT

<213> *Enterobacter cloacae*

<400> 6848

```

Asp Ser Ala Gly Leu Tyr Thr Pro Ser Pro Arg Val Val Cys Met Lys
1      5      10      15
Tyr Ile Arg Ser Leu Thr Gln Gln Arg Leu Cys Leu Met Leu Ala Val
20      25      30
Tyr Ile Gly Leu Phe Leu Asn Gly Ala Val Leu Phe Arg Arg Val Glu
35      40      45
Gly Tyr Phe Glu His Leu Thr Val Arg Asn Gly Ile Phe Ala Ala Ile
50      55      60
Glu Val Phe Gly Ser Ile Leu Ala Thr Phe Phe Leu Leu Arg Leu Leu
65      70      75      80
Ser Leu Phe Gly Arg Arg Thr Trp Gln Val Leu Ala Ser Leu Val Val
85      90      95
Ile Ile Ser Ala Ala Ala Ser Tyr Tyr Met Thr Phe Met Asn Val Val
100     105     110
Ile Gly Tyr Gly Ile Val Ala Ser Val Met Thr Thr Asp Ile Asp Leu
115     120     125
Ser Lys Glu Val Val Gly Gln Gly Phe Ile Leu Trp Thr Ile Leu Thr
130     135     140
Cys Leu Ile Pro Leu Phe Phe Ile Trp Ser Asn Thr Cys Arg Tyr Thr
145     150     155     160
Leu Leu Arg Gln Leu Arg Thr Arg Gly Gln Arg Ile Arg Asn Val Ala
165     170     175
Val Val Leu Leu Ala Gly Leu Leu Val Trp Ala Pro Ile Arg Leu Met
180     185     190

```

Glu Lys Gln Gln Lys Arg Ile Glu Lys Ala Thr Gly Val Asp Met Pro
 195 200 205
 Ser Tyr Gly Gly Val Val Ala Asn Ser Tyr Leu Pro Ser Asn Trp Leu
 210 215 220
 Ser Ala Leu Gly Leu Tyr Ala Trp Ala Gln Ala Asp Glu Ser Ser Asp
 225 230 235 240
 Val Lys Ser Leu Ile Asn Pro Thr Lys Lys Phe Thr Tyr Gln Ala Pro
 245 250 255
 Ala Asp Gly Leu Asp Asp Thr Tyr Val Val Phe Val Ile Gly Glu Thr
 260 265 270
 Thr Arg Trp Asp His Met Gly Ile Leu Gly Tyr Asp Arg Asp Thr Thr
 275 280 285
 Pro Lys Leu Ala Gln Glu Lys Asn Leu Val Ala Tyr Arg Gly Tyr Ser
 290 295 300
 Cys Asp Thr Ala Thr Lys Leu Ser Leu Arg Cys Met Phe Val Arg Glu
 305 310 315 320
 Gly Gly Ala Ser Asp Asn Pro Gln Arg Thr Leu Lys Glu Gln Asn Val
 325 330 335
 Phe Ala Val Leu Lys Gln Leu Gly Phe Ser Ser Asp Leu Phe Ala Met
 340 345 350
 Gln Ser Glu Met Trp Phe Tyr Thr Asn Thr Met Ala Asp Asn Ile Ala
 355 360 365
 Tyr Arg Glu Gln Ile Gly Ala Glu Pro Arg Asn Arg Gly Lys Asn Val
 370 375 380
 Asp Asp Met Leu Leu Leu Ser Glu Met Glu Gln Ser Leu Lys Asn His
 385 390 395 400
 Pro Gln Gly Lys His Leu Ile Val Leu His Thr Lys Gly Ser His Tyr
 405 410 415
 Ser Leu His Ala Arg Gly Arg Gly Tyr Arg Ala Met Arg
 420 425

<210> 6849

<211> 744

<212> PRT

<213> Enterobacter cloacae

<400> 6849

Ile Ala Ser Met Lys Gly Arg Asn Thr Cys Thr Gln Pro Gly Ala His
 1 5 10 15
 Ala Leu Ser Thr Ser Thr Lys Thr Ile Leu Thr Ala Ala His Trp Gly
 20 25 30
 Pro Met Leu Val Glu Thr Asp Gly Asp Thr Val Leu Ser Ser Arg Gly
 35 40 45
 Ala Leu Pro Ser Arg His Leu Asn Ser Leu Gln Thr Val Val Arg Asp
 50 55 60
 Gln Val His Ser Lys Thr Arg Val Arg Trp Pro Met Val Arg Lys Gly
 65 70 75 80
 Phe Leu Ala Ser Pro Asp Lys Pro Gln Gly Ile Arg Gly Gln Asp Glu
 85 90 95
 Phe Val Arg Val Ser Trp Asp Asp Ala Leu Ala Leu Ile His Thr Gln
 100 105 110
 His Lys Arg Ile Arg Asp Ser Tyr Gly Pro Ser Ser Ile Phe Ala Gly
 115 120 125
 Ser Tyr Gly Trp Arg Ser Asn Gly Val Leu His Lys Ala Ala Thr Leu
 130 135 140
 Leu Gln Arg Tyr Met Ser Leu Ala Gly Gly Tyr Thr Gly His Leu Gly
 145 150 155 160
 Asp Tyr Ser Thr Gly Ala Ala Gln Ala Ile Met Pro Tyr Val Val Gly
 165 170 175
 Gly Asn Glu Val Tyr Gln Gln Gln Thr Ser Trp Pro Leu Val Leu Glu
 180 185 190

His Thr Glu Val Val Val Leu Trp Ser Ala Asn Pro Leu Asn Thr Leu
 195 200 205
 Lys Ile Ala Trp Asn Ala Ser Asp Glu Gln Gly Val Ser Tyr Phe Asp
 210 215 220
 Ala Leu Arg Lys Ser Gly Lys Arg Ile Ile Cys Ile Asp Pro Met Arg
 225 230 235 240
 Ser Glu Thr Leu Asp Phe Phe Gly Asn Ser Ala Glu Trp Ile Ala Pro
 245 250 255
 His Met Gly Thr Asp Val Ala Met Met Leu Gly Ile Ala His Thr Leu
 260 265 270
 Val Glu Asn Gly Trp His Asp Thr Glu Phe Leu Ala Arg Cys Thr Thr
 275 280 285
 Gly Phe Asp Lys Phe Ala Asp Tyr Leu Thr Gly Gln Ser Asp Gly Ile
 290 295 300
 Ala Lys Thr Ala Glu Trp Ala Ala Ala Ile Cys Gly Val Asn Ala Val
 305 310 315 320
 Lys Ile Arg Glu Leu Ala Ala Leu Phe His Ser His Val Thr Met Leu
 325 330 335
 Met Thr Gly Trp Gly Met Gln Arg Gln Gln Phe Gly Glu Gln Lys His
 340 345 350
 Trp Met Leu Leu Thr Leu Ala Ala Met Leu Gly Gln Ile Gly Thr Pro
 355 360 365
 Gly Gly Gly Phe Gly Leu Ser Tyr His Phe Ala Asn Gly Gly Asn Pro
 370 375 380
 Thr Arg Lys Ala Ala Val Leu Ala Ser Met Gln Gly Ser Val Gln Gly
 385 390 395 400
 Gly Val Asp Ala Val Asp Lys Ile Pro Val Ala Arg Ile Val Glu Ala
 405 410 415
 Leu Glu Asn Pro Gly Gly Phe Tyr Gln His Asn Gly Gln Asp Arg His
 420 425 430
 Phe Pro Asp Ile Lys Phe Ile Trp Trp Ala Gly Gly Ala Asn Phe Thr
 435 440 445
 His His Gln Asp Thr Asn Arg Leu Ile Arg Ala Trp Gln Lys Pro Glu
 450 455 460
 Leu Val Val Ile Ser Glu Cys Phe Trp Thr Ala Ser Ala Lys His Ala
 465 470 475 480
 Asp Ile Val Leu Pro Ala Thr Thr Ser Phe Glu Arg Asn Asp Leu Thr
 485 490 495
 Met Thr Gly Asp Tyr Ser Asn Gln His Met Val Pro Met Lys Arg Val
 500 505 510
 Val Ala Pro Arg Asp Glu Ala Arg Asp Asp Phe Asp Val Phe Ala Asp
 515 520 525
 Leu Ser Glu Met Trp Glu Ala Gly Gly Arg Glu Arg Phe Thr Glu Gly
 530 535 540
 Lys Thr Asp Leu Gln Trp Leu Glu Thr Phe Tyr Gln Ile Ala Ser Gln
 545 550 555 560
 Arg Gly Ala Ala Gln Gly Val Ser Leu Pro Pro Phe Ala Glu Phe Trp
 565 570 575
 Glu Ala Asn Gln Leu Phe Glu Met Pro Glu Ser Glu Gln Asn Ala Arg
 580 585 590
 Phe Val Arg Phe Ala Asp Phe Arg Arg Asp Pro Glu Asn His Pro Leu
 595 600 605
 Lys Thr Glu Ser Gly Lys Ile Val Ile Tyr Ser Glu Arg Ile Ala Ser
 610 615 620
 Phe Gly Tyr Ala Asp Cys Pro Pro His Pro Ala Trp Leu Glu Pro Asp
 625 630 635 640
 Glu Trp His Gly Asn Ala Gln Pro Gly Gln Leu Gln Leu Leu Ser Ala
 645 650 655
 His Pro Ala His Arg Leu His Ser Gln Leu Asn Tyr Ser Ala Leu Arg
 660 665 670
 Glu Gln Tyr Ala Val Ala Gly Arg Glu Pro Ile Ala Leu Asn Ser Asp

675 680 685
 Asp Ala Lys Ala Arg Gly Ile Asn Asp Gly Asp Leu Val Arg Val Trp
 690 695 700
 Asn Ala Arg Gly Gln Val Leu Ala Gly Ala Val Val Ser Asp Gly Ile
 705 710 715 720
 Arg Pro Gly Val Phe Cys Ile His Gln Gly Ala Trp Pro Asp Leu Ala
 725 730 735
 Leu Glu Gly Gly Arg Tyr Leu
 740

<210> 6850

<211> 408

<212> PRT

<213> *Enterobacter cloacae*

<400> 6850

Phe Ile Leu Gln Asp Thr Ala Met Asn Thr Ser Thr Tyr Asn Arg Thr
 1 5 10 15
 Arg Trp Leu Thr Leu Phe Gly Thr Ile Val Thr Gln Phe Ala Leu Gly
 20 25 30
 Ser Val Tyr Thr Trp Ser Leu Phe Asn Ser Ala Leu Ser Asp Lys Leu
 35 40 45
 Gly Ala Pro Ile Ser Gln Val Ala Phe Ser Phe Gly Leu Leu Ser Leu
 50 55 60
 Gly Leu Ala Ile Ser Ser Ser Val Ala Gly Lys Leu Gln Glu Arg Phe
 65 70 75 80
 Gly Val Lys Arg Val Thr Met Ala Ser Gly Ile Leu Leu Gly Leu Gly
 85 90 95
 Phe Phe Leu Thr Ala Tyr Ser Asn Asn Leu Met Met Leu Trp Leu Ser
 100 105 110
 Ala Gly Val Leu Val Gly Leu Ala Asp Gly Ala Gly Tyr Leu Leu Thr
 115 120 125
 Leu Ser Asn Cys Val Lys Trp Phe Pro Glu Arg Lys Gly Leu Ile Ser
 130 135 140
 Ala Phe Ala Ile Gly Ser Tyr Gly Leu Gly Ser Leu Gly Phe Lys Phe
 145 150 155 160
 Ile Asp Ala His Leu Leu Ala Ser Val Gly Leu Glu Lys Thr Phe Met
 165 170 175
 Ile Trp Gly Val Ile Val Leu Val Met Ile Leu Phe Gly Ala Thr Leu
 180 185 190
 Met Lys Asp Ala Pro Gln Gln Glu Val Lys Thr Val Asn Gly Val Val
 195 200 205
 Glu Asn Asp Phe Thr Leu Ala Gln Ser Met Arg Lys Pro Gln Tyr Trp
 210 215 220
 Met Leu Ala Val Met Phe Leu Thr Ala Cys Met Ser Gly Leu Tyr Val
 225 230 235
 Ile Gly Val Ala Lys Asp Ile Ala Gln Gly Met Val Lys Leu Asp Ala
 245 250 255
 Ala Thr Ala Ala Asn Ala Val Thr Val Ile Ser Ile Ala Asn Leu Ser
 260 265 270
 Gly Arg Leu Val Leu Gly Ile Leu Ser Asp Lys Ile Ala Arg Ile Arg
 275 280 285
 Val Ile Thr Leu Gly Gln Val Ile Ser Leu Val Gly Met Ala Ala Leu
 290 295 300
 Leu Phe Ala Pro Leu Asn Glu Ala Thr Phe Phe Ala Ala Ile Ala Cys
 305 310 315
 Val Ala Phe Asn Phe Gly Gly Thr Ile Thr Val Phe Pro Ser Leu Val
 325 330 335
 Ser Glu Phe Phe Gly Leu Asn Asn Leu Ala Lys Asn Tyr Gly Val Ile
 340 345 350
 Tyr Leu Gly Phe Gly Ile Gly Ser Ile Cys Gly Ser Leu Ile Ala Ser

355 360 365
 Leu Phe Gly Gly Phe Tyr Val Thr Phe Cys Val Ile Phe Ala Leu Leu
 370 375 380
 Ile Ile Ser Leu Ala Leu Ser Thr Thr Ile Arg Gln Pro Gln Arg Glu
 385 390 395 400
 Val Tyr Lys Glu Ala His Ala
 405

<210> 6851

<211> 398

<212> PRT

<213> *Enterobacter cloacae*

<400> 6851

Lys Cys Ala Thr Met Leu Thr Thr Leu Ile Tyr Arg Ser His Leu Arg
 1 5 10 15
 Ala Asp Ala Pro Ile Gln Ser Ile Ile Asp Met Val Ser Glu Ala Asn
 20 25 30
 Ser Arg Asn Glu Arg Ala Gly Val Thr Gly Val Leu Leu Phe Asn Gly
 35 40 45
 Ile His Phe Leu Gln Leu Leu Glu Gly Asp Glu Ala Ala Val Met Gln
 50 55 60
 Ile Tyr Glu Lys Ile Cys Leu Asp Thr Leu His Phe Asn Ile Val Glu
 65 70 75 80
 Leu Leu Ser Asp Tyr Ala Pro Tyr Arg Arg Phe Gly Arg Ser Gly Met
 85 90 95
 Glu Leu Ile Asp Ile Arg Leu Phe Ser Lys Glu Glu Cys Leu Asp Arg
 100 105 110
 Val Leu Gln Arg Gly Thr Thr Gln His Lys Met Leu Tyr Asn Asp Arg
 115 120 125
 Ala Leu Arg Phe Phe Arg Thr Phe Ile Asp Ser Ala Glu Thr Asp Asn
 130 135 140
 Tyr Tyr Glu Leu Pro Asp Arg Phe Ser Trp Phe Phe Ser Ser Asp Gln
 145 150 155 160
 Ile Asp Val Ser Ser Val Asp Pro Ala Ile Ile Glu Asp Met Tyr Ala
 165 170 175
 Val Ile Asp Pro Leu Ala Ala Gln Ile His Ser Phe Val Leu Asn Ala
 180 185 190
 Lys Ser Asp Asn Asp Val Ile Lys Val Asn Asn Leu Leu Phe Asp Leu
 195 200 205
 Glu Ser Lys Lys Asp Leu Leu Lys Ile Ala Gly Gly Phe Ile Thr Ser
 210 215 220
 Ser Gln Arg Val Ser Ile Thr Leu Leu Pro Leu Thr Leu Leu Arg Val
 225 230 235 240
 Pro Asn Ala Ile Glu Ile Leu Leu Asp Tyr Ile Arg Glu Ser Asn Leu
 245 250 255
 His Pro Glu Gln Val Leu Val Glu Phe Ser Glu Ser Glu Ile Ile Pro
 260 265 270
 Glu Ile Asp Glu Phe Ala His Ser Val Gln Ile Leu Lys Ser Cys Gly
 275 280 285
 Leu Ser Val Ala Ile Asn Asp Phe Gly Val Gly Asn Ala Gly Leu Leu
 290 295 300
 Phe Leu Ser Lys Phe Gln Pro Glu Lys Leu Lys Ile His Pro Gln Leu
 305 310 315 320
 Ile His Asn Ile His Lys Asp Gly Ser Lys Gln Ala Ile Leu Gln Ser
 325 330 335
 Leu Ile Arg Cys Gly Glu Leu Leu Glu Ile Arg Ile Cys Ala Thr Gly
 340 345 350
 Val Glu Gln Pro Glu Glu Trp Met Trp Leu Glu Ser Ala Gly Ile Phe
 355 360 365
 Cys Phe Gln Gly Asn Leu Phe Ser Lys Tyr Asp Lys Asn Gly Tyr Leu

370 375 380
 Lys Ile Phe Trp Pro Glu Ser Asn Glu Phe Ile Gln Cys
 385 390 395

<210> 6852
 <211> 286
 <212> PRT
 <213> Enterobacter cloacae

<400> 6852
 Gly Arg Glu Val Arg Thr His His Tyr Arg Val Gly Glu Arg Met Asn
 1 5 10 15
 Leu Glu Asn Thr Leu Lys Tyr His Phe Ala Lys Ser Thr Met Ile Ser
 20 25 30
 Asp Ser Pro Arg Ala Thr Ala Ser Asp Ser Leu Ser Gly Thr Asp Ile
 35 40 45
 Met Ala Ala Met Gly Met Thr Gln Glu Arg Ala Ala Leu Gly Tyr Ser
 50 55 60
 Ala Phe Leu Gly Lys Met Gly Ile Ser Asn Asn Asp Arg Glu Arg Ala
 65 70 75 80
 Ile Glu Leu Leu Ala Gln Tyr Ala Leu Thr Lys Cys Asp Arg Val Ala
 85 90 95
 Ala Leu Arg Lys Leu Asp Ala Arg Val Lys Pro Leu Val Met His Gln
 100 105 110
 Leu Ala Ser Phe Ala Phe Glu Asp Tyr Ser Arg Ser Ala Ala Ser Val
 115 120 125
 Lys Gln Cys Asp Cys Cys Ser Gly Gln Gly Phe Ile Glu Ala Asp Val
 130 135 140
 Phe Thr Met Lys Ser His Tyr Thr Met Lys Leu Pro Gln Trp Ala Lys
 145 150 155 160
 Asp Leu Lys Gln Ser Pro Ser Tyr Phe Glu Val Lys Arg Gln Val Lys
 165 170 175
 Glu Val Ala Lys Val Leu Cys Ser Thr Cys Lys Gly Lys Val Val
 180 185 190
 Ser Cys Ala Cys Lys Asp Cys His Gly Arg Gly Lys Ala Val Asn Gln
 195 200 205
 Asp Leu Thr Glu Lys Gln Gly Val Pro Val Leu Ala Asp Cys Lys Arg
 210 215 220
 Cys Gly Gly Arg Gly Tyr Glu Arg Ile Pro Ser Thr Glu Ala Tyr Ala
 225 230 235 240
 Ala Val Arg Gln Ile Thr Asp Thr Ile Ser Leu Asp Thr Trp Lys Lys
 245 250 255
 Ser Val Lys Pro Phe Tyr Asp Gln Leu Ile Thr Lys Phe Asp Ile Glu
 260 265 270
 Glu Ala Trp Ala Asp Ala Gln Leu Lys Gln Ile Thr Lys
 275 280 285

<210> 6853
 <211> 233
 <212> PRT
 <213> Enterobacter cloacae

<400> 6853
 Arg Gly Ala Gly Met Lys Asn Leu Ala Glu Ser Ile Arg Asn Phe Asp
 1 5 10 15
 Arg Glu Gln Ala Cys Arg Val Ala His Asn Leu Pro Glu Gln Tyr Thr
 20 25 30
 Glu Arg Glu Gln Thr Gln Gln Val Ala Gln Ile Ile Asn Gly Leu Phe
 35 40 45
 Val Gln Leu Ala Ala Ala Phe Pro Ala Ser Leu Val Asn Arg Ser Gln
 50 55 60

Asp Asp Val Asp Glu Ile Arg Arg Gln Trp Val Leu Ala Phe Lys Glu
 65 70 75 80
 Asn Gly Ile Asn Thr Met Glu Gln Val Glu Ala Gly Met Arg Met Val
 85 90 95
 Arg Arg Gln Glu Arg Pro Phe Leu Pro Ser Pro Gly Gln Phe Ile Lys
 100 105 110
 Trp Cys Arg Glu Gly Arg Cys Val Leu Gly Val Thr Thr Ala Asp Val
 115 120 125
 Met Ala Glu Tyr Trp Lys Trp Arg Lys Leu Val Phe Arg Tyr Pro Ser
 130 135 140
 Ser Glu Gln Tyr Pro Trp Pro Lys Pro Val Tyr Tyr His Ile Cys Leu
 145 150 155 160
 Glu Leu Arg Arg Arg Gly Thr Asp Gly Gln Leu Ser His Lys Glu Leu
 165 170 175
 Glu Arg Glu Ala Gly Asp Ile Leu Asp Arg Trp Glu Lys Arg Val Leu
 180 185 190
 Ala Gly Lys Pro Ile Pro Pro Ile Arg Arg Ala Leu Ala Ala Pro Val
 195 200 205
 Ala Pro Lys Gly Pro Thr Pro Ala Glu Leu Leu Lys Thr Lys Tyr Gln
 210 215 220
 Arg Met Lys Ala Asp Gly Arg Ala
 225 230

<210> 6854

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 6854

Arg Ser Cys Glu Ala Ser Phe Tyr Phe Lys Arg Leu Lys Lys Val Glu
 1 5 10 15
 Ile Thr Met Lys Arg Pro Asn Trp Phe Gln Val Ser Asp Lys Gly Gly
 20 25 30
 Lys Ala Ile Ala Ala Leu His His Tyr Ala Thr Thr Gly Thr Gly Leu
 35 40 45
 Pro Ala Glu Leu Ile His Leu Ile Phe Leu Arg Val Ser Gln Ile Asn
 50 55 60
 Gly Cys Ala His Cys Ile Asp Ile His Thr Arg Asp Leu Ile Lys Ser
 65 70 75 80
 Gly Met Ser Val Glu Lys Ile Val Leu Cys Leu Phe Trp Arg Glu Pro
 85 90 95
 Ser Tyr Phe Ile Leu Arg Ile
 100

<210> 6855

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6855

Asp Gly Asp Ser Gly Asp Ser Gln Arg Ile Ser Leu Met Lys Glu Ile
 1 5 10 15
 Asp Val Gly Phe Thr His Val Ala Phe Val Val Arg Asp Leu Asp Lys
 20 25 30
 Ser Ile Asp Phe Tyr Gly Arg Tyr Ala Gly Met Glu Val Val His Arg
 35 40 45
 Arg Glu Pro Asp Leu Pro Glu Ala Arg Lys Val Ala Trp Leu Ser Asp
 50 55 60
 Leu Thr Arg Pro Phe Ala Leu Val Leu Val Gln Val Asp Ala Val Thr
 65 70 75 80
 Asp Thr Pro Leu Gly Asn Phe Gly His Leu Gly Val Ala Cys Ser Ser

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      85              90              95
Ile Glu Glu Ile Asp Asn Lys Ile Ala Met Ala Arg Met Glu Gly Ile
      100              105              110
Leu Arg Lys Glu Pro Val Gln Thr Gly Glu Pro Val Gly Tyr Tyr Val
      115              120              125
Phe Phe Ala Asp Pro Asp Gly Asn Thr Leu Glu Leu Ser Tyr Gly Gln
      130              135              140
Lys Val Gly Ile Glu Ala Phe Arg His Tyr Asp Thr Val Pro Ala Ser
      145              150              155              160
Gln

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<210> 6856

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 6856

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Ala Gln Pro Lys Pro Gly Leu Arg Asp Leu Asp Cys Lys Cys Ile Leu
1      5      10      15
Ala Asp Leu Lys Tyr Thr Ser Ala Pro Gly Gln Pro Leu Ala Lys Pro
      20      25      30
Asp Val Gly Val Asn Val Lys Thr Tyr Gln Ile Thr Leu Pro Trp Pro
      35      40      45
Pro Ser Asn Asn Arg Tyr Tyr Arg His Asn Arg Gly Arg Thr His Ile
      50      55      60
Ser Ala Asp Gly Val Ala Tyr Arg Tyr Ala Val Ala Ser Val Ile Arg
      65      70      75      80
Ser Ala Arg Leu Asn Ile Arg Thr Ala Ala Pro Leu Lys Ile Arg Ile
      85      90      95
Glu Cys His Met Pro Asp Arg Arg Arg Asp Leu Asp Asn Leu Gln
      100      105      110
Lys Ala Ala Phe Asp Ala Leu Thr Lys Ala Arg Phe Trp Leu Asp Asp
      115      120      125
Cys Gln Val Val Asp Tyr Arg Val Val Lys Met Pro Val Val Lys Gly
      130      135      140
Gly Lys Leu Glu Leu Thr Ile Thr Glu Leu Glu Asn Ala
      145      150      155

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<210> 6857

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 6857

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Arg Gly Ala Ser Gly Gly Ser Trp Ala Lys Val Leu Thr Thr Asp Gln
1      5      10      15
Lys Arg Glu Ala Val Met Leu Met Cys Asp Ala Thr Gly Leu Ser Gln
      20      25      30
Arg Arg Ala Cys Arg Leu Thr Gly Leu Ser Leu Ser Thr Cys Arg Tyr
      35      40      45
Glu Ala His Arg Pro Ala Ala Asp Ala His Leu Ser Gly Arg Ile Thr
      50      55      60
Glu Leu Ala Leu Glu Arg Arg Arg Phe Gly Tyr Arg Arg Ile Trp Gln
      65      70      75      80
Leu Leu Arg Arg Glu Gly Leu His Val Asn His Lys Arg Val Tyr Arg
      85      90      95
Leu Tyr His Leu Ser Gly Leu Gly Val Lys Arg Arg Arg Arg Arg Lys
      100      105      110
Gly Leu Ala Thr Glu Arg Leu Pro Leu Leu Arg Pro Ala Pro Asn
      115      120      125

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Leu Thr Trp Ser Met Asp Phe Val Met Asp Ala Leu Ser Thr Gly Arg
 130 135 140
 Arg Ile Lys Cys Leu Thr Cys Val Asp Asp Phe Thr Lys Glu Cys Leu
 145 150 155 160
 Thr Val Thr Val Ala Phe Gly Ile Ser Gly Val Gln Val Thr Arg Ile
 165 170 175
 Leu Asp Ser Ile Ala Leu Phe Arg Gly Tyr Pro Ala Thr Ile Arg Thr
 180 185 190
 Asp Gln Gly Pro Glu Phe Thr Cys Arg Ala Leu Asp Gln Trp Ala Phe
 195 200 205
 Glu His Gly Val Glu Leu Arg Leu Ile Gln Pro Gly Lys Pro Thr Gln
 210 215 220
 Asn Gly Phe Ile Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu Cys Leu
 225 230 235 240
 Asn Glu His Trp Phe Ser Asp Ile Val His Ala Arg Lys Ile Ile Asn
 245 250 255
 Asp Trp Arg Gln Asp Tyr Asn Glu Cys Arg Pro His Ser Thr Leu Asn
 260 265 270
 Tyr Gln Thr Pro Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly His Ser
 275 280 285
 Glu Asn Glu Asp Ser Asp Val Thr Asn
 290 295

<210> 6858

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6858

Ala Lys Tyr Gly Ser Ala Phe Pro Gly Met Gly Arg His Pro Glu Gly
 1 5 10 15
 Gly Leu Ser Val Ala Ile Ser Asn Pro Arg Lys Pro Ala Glu Leu
 20 25 30
 Gln Val Val Gly Val Asp Phe Ser Gly Gln Ala Asp Val Trp Asn Val
 35 40 45
 Lys Leu Phe Arg Trp Val Asp Asn Lys Glu Asp Ser Ala Ser Tyr Arg
 50 55 60
 Lys Asn Val Glu Gln Leu Val Pro Ala Ile Ile Tyr Val Leu Pro Leu
 65 70 75 80
 Arg Tyr Arg Asp Arg Val Val Lys Tyr Asp Ser Phe Ala Tyr Arg Met
 85 90 95
 Ala Arg Leu Glu Lys Glu Val Ser Glu Ala Lys Gln Ala Leu Met Leu
 100 105 110
 Asp Ala Pro Lys Lys Val Lys Leu Lys Glu Leu Gly Glu Gly Ile Phe
 115 120 125
 Glu Met Phe Arg Val Asp Pro Asp Val Thr Ala Pro Leu Leu Ala Met
 130 135 140
 Val Thr Thr Met Leu Gly Ala Met
 145 150

<210> 6859

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 6859

Arg Arg Lys Pro Val Cys Val Asn Arg Thr Asp Phe Gln Val Gln Lys
 1 5 10 15
 Arg Ser Val Ile Ala Glu Leu Ser Met Ser Asn Thr Ala Glu Ile Ile
 20 25 30
 Asn Phe Pro His Arg Thr Glu Gln Pro Gly Gly Arg Met Ala Asp Leu

35 40 45
 Ser Asn Gly Tyr Thr Lys Val Ala Asn Glu Ile Gln Gln Leu Lys Pro
 50 55 60
 Arg Leu Arg Met Ser Gly Arg Glu Trp Gln Cys Phe Glu Ala Val Ile
 65 70 75 80
 Trp Leu Thr Tyr Gly Trp Asn Lys Lys Gln Asp Arg Val Thr Asn Thr
 85 90 95
 Val Ile Ala Glu Leu Thr Gly Leu Ser Asp Ser His Val Ser Asp Ala
 100 105 110
 Leu Lys Ser Leu Ala Glu Arg Lys Ile Ile Phe Ser Gln Lys Gln Gly
 115 120 125
 Val Met Lys Thr Val Gly Ile Asn Thr Asp Leu Ser Ala Trp Ile Leu
 130 135 140
 Asp Lys Pro Lys Thr Gly Lys Val Phe Pro Lys Ser Gly Lys Val Leu
 145 150 155 160
 Pro Lys Thr Gly Lys Thr Phe Pro Glu Thr Val Asp Thr Gln Asp Tyr
 165 170 175
 Asn Lys Asn Asn Ile Lys Arg Ser Ser Ser Arg Asn Ser Asp Glu Ser
 180 185 190
 Arg Asn Gln Lys Thr Gln Lys Phe Leu Ser Arg His Pro Glu Ala Ala
 195 200 205
 Asp Gly Ile Tyr Thr Pro Ala Gly Lys Ser Trp Gly Ser Ala Asp Asp
 210 215 220
 Leu Lys Ala Ala Arg Trp Ile Tyr Asp Arg Leu Leu Thr Val Asn Ala
 225 230 235 240
 Ser Leu Ser Glu Pro Asn Trp Ala Glu Trp Ala Asn Thr Ile Arg Leu
 245 250 255
 Met Arg Val Gln Asp Lys Arg Thr His Tyr Glu Ile Cys Asp Leu Phe
 260 265 270
 Gln Trp Ala Asn Arg Asp Glu Phe Trp Lys Asp Asn Ile Leu Ser Pro
 275 280 285
 Ser Ser Leu Arg Lys Gln Trp Asp Gln Leu Thr Thr Lys Arg Leu Arg
 290 295 300
 Ala Thr Gly Thr Ala Lys Pro Ser Arg Ser Gly Ile Asp Leu Leu Asn
 305 310 315 320
 Thr Asp Trp Ile Asp Gly Val Leu Glu
 325 330

<210> 6860

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 6860

Ile Tyr Cys Ile Cys Ile Gln Leu Phe Ile Ala Glu Gly Lys Met Lys
 1 5 10 15
 Ile Glu Leu Thr Ile Asp Arg Met Lys Lys Leu Pro Val Gly Ala Ile
 20 25 30
 Pro Ala Leu Glu Ser Glu Leu Leu Lys Arg Leu Ser Lys Gln Phe Asp
 35 40 45
 Gly Cys Gln Ile Thr Ile Lys Arg Ala Ser Asn Asp Gly Leu Thr Val
 50 55 60
 Phe Gly Gly Asp Lys Lys Glu Val Glu His Ile Val Gln Glu Thr Trp
 65 70 75 80
 Glu Ser Ala Asp Glu Trp Phe Tyr
 85

<210> 6861

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6861

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Gly Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75 80
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95
 Tyr

<210> 6862

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 6862

Tyr Trp Pro Lys Asn Lys Pro Glu Ala Gln Phe Gln Leu Met Asn Leu
 1 5 10 15
 Leu Ser Leu Leu Pro Val Gly Cys Asp Ile Phe Val Val Gly Glu Asn
 20 25 30
 Arg Ser Gly Val Arg Ser Ala Glu Gln Met Leu Glu Ala Trp Ala Pro
 35 40 45
 Leu Thr Lys Ile Asp Ser Ala Arg Arg Cys Gly Leu Tyr His Gly Arg
 50 55 60
 Leu Glu Lys Gln Thr Thr Phe Asp Ala Asp Ala Phe Trp Asp Glu Tyr
 65 70 75 80
 Gln Leu Glu Gly Leu Thr Ile Lys Thr Leu Pro Gly Val Phe Ser Arg
 85 90 95
 Asp Ala Leu Asp Thr Gly Ser Lys Leu Leu Leu Ser Thr Leu Thr Pro
 100 105 110
 His Thr Lys Gly Lys Val Leu Asp Val Gly Cys Gly Ala Gly Val Leu
 115 120 125
 Ser Thr Val Leu Ala Ser His Ser Pro Lys Val Arg Leu Thr Leu Cys
 130 135 140
 Asp Val Ser Ala Pro Ala Val Glu Ala Ser Arg Ala Thr Leu Ala Ala
 145 150 155 160
 Asn Gly Ile Glu Gly Asp Val Ile Ala Ser Asn Val Phe Ser Asp Val
 165 170 175
 Thr Gly Arg Phe Asp Met Ile Met Ser Asn Pro Pro Phe His Asp Gly
 180 185 190
 Met Glu Thr Ser Leu Glu Ala Ala Gln Thr Leu Ile Arg Gly Ala Thr
 195 200 205
 Arg His Leu Asn Ser Gly Gly Glu Leu Arg Ile Val Ala Asn Ala Phe
 210 215 220
 Leu Ala Tyr Pro Lys Val Leu Asp Glu Thr Phe Gly Phe His Glu Val
 225 230 235 240
 Ile Ala Gln Thr Gly Arg Phe Lys Val Tyr Arg Thr Val Met Thr Arg
 245 250 255
 Gln Ala Lys Lys
 260

<210> 6863

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 6863

```

Tyr Arg Lys Pro Phe Ser Gln Leu Lys Glu Val Met Pro Thr Met Thr
1      5      10      15
Gln Val Ala Lys Lys Ile Leu Val Thr Cys Ala Leu Pro Tyr Ala Asn
20      25      30
Gly Ser Ile His Leu Gly His Met Leu Glu His Ile Gln Ala Asp Val
35      40      45
Trp Val Arg Tyr Gln Arg Met Arg Gly His Glu Val Asn Phe Ile Cys
50      55      60
Ala Asp Asp Ala His Gly Thr Pro Ile Met Leu Lys Ala Gln Gln Leu
65      70      75
Gly Ile Ser Pro Glu Gln Met Ile Ala Glu Met Ser Gln Glu His Gln
85      90      95
Thr Asp Phe Ala Gly Phe Asp Ile Ser Tyr Asp Asn Tyr His Ser Thr
100     105     110
His Ser Asp Glu Asn Arg Glu Leu Ser Glu Leu Ile Tyr Thr Arg Leu
115     120     125
Lys Glu Asn Gly Phe Ile Lys Asn Arg Thr Ile Ser Gln Leu Tyr Asp
130     135     140
Pro Glu Lys Gly Met Phe Leu Pro Asp Arg Phe Val Lys Gly Thr Cys
145     150     155
Pro Lys Cys Lys Ser Pro Asp Gln Tyr Gly Asp Asn Cys Glu Val Cys
165     170     175
Gly Ala Thr Tyr Ser Pro Thr Glu Leu Ile Glu Pro Lys Ser Val Val
180     185     190
Ser Gly Ala Thr Pro Val Met Arg Asp Ser Glu His Phe Phe Phe Asp
195     200     205
Leu Pro Ser Phe Ser Glu Met Leu Lys Ala Trp Thr Arg Ser Gly Ala
210     215     220
Leu Gln Glu Gln Val Ala Asn Lys Met Gln Glu Trp Phe Glu Ser Gly
225     230     235
Leu Gln Gln Trp Asp Ile Ser Arg Asp Ala Pro Tyr Phe Gly Phe Glu
245     250     255
Ile Pro Asn Ala Pro Gly Lys Tyr Phe Tyr Val Trp Leu Asp Ala Pro
260     265     270
Ile Gly Tyr Met Gly Ser Phe Lys Asn Leu Cys Asp Lys Arg Gly Asp
275     280     285
Thr Val Ser Phe Asp Glu Tyr Trp Lys Lys Asp Ser Asp Ala Glu Leu
290     295     300
Tyr His Phe Ile Gly Lys Asp Ile Val
305     310

```

<210> 6864

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 6864

```

Met Lys Ser Met Asn Lys Asn Phe Thr Ala Ile Phe Val Met Gly Ile
1      5      10      15
Val Leu Ala Gly Thr Met Ser Gln Ala Glu Ala Ala Asn Thr Val Trp
20      25      30
Asp Asp Gln Gln Ile Thr Asn Ile Val Asn Asp His Gln Asp Gln Ile
35      40      45
Thr Gln Asn Asn Ala Asp Ser Ile Asn Arg Asp Ser Ala Thr Asp Asn
50      55      60
Arg Leu Thr Gln Val Asn Asp Asp Leu Gln Ser Thr Lys Leu Gly Val
65      70      75
Leu Val Val Asp Lys Met Ala Asn Asp Ala His Gln Lys Ala Leu Leu

```

85 90 95
 Ala Gly Ala Leu Ala Asp Thr Ala Ser Leu Lys Ser Glu Thr Ala Leu
 100 105 110
 Gln Gly Val Ala Thr Asn Gly Thr Ala Ile Ile Asn Leu Gln His Val
 115 120 125
 Asp Asn Ile Gln Asp Ser Arg Leu Thr Ala Leu Glu Asn Ala Pro Lys
 130 135 140
 Pro Ile Asn Gly Ala Asp Gly Ala Lys Gly Asp Lys Gly Asp Thr Gly
 145 150 155 160
 Ala Thr Gly Ala Lys Gly Asp Lys Gly Asp Thr Gly Ala Thr Gly Ala
 165 170 175
 Lys Gly Asp Lys Gly Asp Thr Gly Val Thr Gly Ala Lys Gly Glu Lys
 180 185 190
 Gly Asp Ala Gly Ala Thr Gly Met Lys Gly Asp Lys Gly Asp Thr Gly
 195 200 205
 Ala Gln Gly Ile Ala Gly Arg Asn Gly Arg Asp Gly Ala Asp Gly His
 210 215 220
 Asn Gly Lys Asp Gly Val Thr Thr Val Thr Gln Arg Gln Leu Asp
 225 230 235 240
 Thr Ala Thr Gln Ala Lys Val Ala Lys Asn Ser Met Ala Val Thr Ala
 245 250 255
 Ala Thr Gln Asp Leu Gln Ala Thr Arg Gln Ser Leu Gln Ala Met Asn
 260 265 270
 Thr Asn Thr Ser Gln Gln Phe Lys Ser Leu Arg Asp Glu Val Asp Asn
 275 280 285
 Asn Lys Lys Gln Ala Asn Ala Gly Ile Ser Gly Ala Met Ala Met Ala
 290 295 300
 Gly Leu Pro Gln Val Gln Thr Asn Gln Arg Val Met Ser Ser Ala Gly
 305 310 315 320
 Gly Ala Thr Tyr Asn Gly Glu Ser Ala Leu Ala Val Gly Ala Ser Val
 325 330 335
 Asn Phe Asn Ser His Val Ile Ala Lys Val Ser Phe Ser Asp Asp Thr
 340 345 350
 Ala Asn Asn Met Gly Ala Ser Val Gly Ile Gly Met Gly Phe
 355 360 365

<210> 6865

<211> 467

<212> PRT

<213> *Enterobacter cloacae*

<400> 6865

Arg Ser Gly Gly Cys Arg Ser Asp Met Met Thr Asp Lys Val Arg Ile
 1 5 10 15
 Asp Thr Val Asp Ala His Lys Ser Asn Glu Thr Tyr Leu Ala Arg Gln
 20 25 30
 Ala Glu Phe Glu Ser Asn Val Arg Ser Tyr Pro Arg Lys Leu Pro Leu
 35 40 45
 Ala Ile Thr Lys Ala Glu Gly Val Trp Ile Thr Asp Ala Asp Asn Lys
 50 55 60
 Glu Tyr Leu Asp Cys Leu Ala Gly Ala Gly Thr Leu Ala Leu Gly His
 65 70 75 80
 Asn His Pro Asp Val Leu Lys Ser Ile Gln Asn Val Ile Thr Ser Gly
 85 90 95
 Leu Pro Leu His Thr Leu Asp Leu Thr Thr Pro Leu Lys Asp Ala Phe
 100 105 110
 Ser Glu Tyr Leu Leu Ser Leu Leu Pro Gly Gln Gly Lys Glu Tyr Cys
 115 120 125
 Leu Gln Phe Thr Gly Pro Ser Gly Ala Asp Ala Val Glu Ala Ala Leu
 130 135 140
 Lys Leu Ala Lys Lys Val Thr Gly Arg Ser Gly Ile Ile Ser Phe Ser

145 150 155 160
 Gly Gly Tyr His Gly Met Thr His Gly Ala Leu Ser Val Thr Gly Asn
 165 170 175
 Leu Ser Pro Lys Glu Ala Val Asp Gly Met Met Pro Glu Val Gln Phe
 180 185 190
 Met Pro Tyr Pro His Glu Tyr Arg Cys Pro Leu Gly Ile Gly Gly Glu
 195 200 205
 Ala Gly Val Lys Ala Leu Thr Tyr Tyr Phe Glu Asn Leu Ile Asn Asp
 210 215 220
 Val Glu Ser Gly Val Arg Lys Pro Ala Ala Val Ile Leu Glu Ala Val
 225 230 235 240
 Gln Gly Glu Gly Gly Val Asn Pro Ala Pro Val Glu Trp Leu Gln Arg
 245 250 255
 Ile Arg Lys Val Thr Gln Glu His Gly Ile Leu Leu Ile Leu Asp Glu
 260 265 270
 Val Gln Ala Gly Phe Ala Arg Thr Gly Lys Phe Phe Ala Phe Glu His
 275 280 285
 Ala Gly Ile Glu Pro Asp Ile Ile Val Met Ser Lys Ala Val Gly Gly
 290 295 300
 Gly Leu Pro Leu Ala Val Leu Gly Ile Lys Lys Gln Phe Asp Ala Trp
 305 310 315 320
 Ala Pro Gly His His Thr Gly Thr Phe Arg Gly Asn Gln Leu Ala Met
 325 330 335
 Ala Thr Gly Leu Thr Thr Leu Lys Ile Leu Lys Asp Gln Asn Ile Ala
 340 345 350
 Gly Lys Val Ala Ala Gln Gly Glu Trp Leu Lys Gly Gln Leu Lys Glu
 355 360 365
 Met Ala Lys Arg Tyr Pro Val Ile Gly His Val Arg Gly Leu Gly Met
 370 375 380
 Met Ile Gly Ile Glu Ile Val Lys Pro His Glu Ala Ala Asp His Met
 385 390 395 400
 Gly Cys Phe Pro Gly Asp Gly Glu Leu Ser Ala Leu Ile Gln Lys Lys
 405 410 415
 Cys Phe Glu Ala Gly Leu Ile Leu Glu Arg Gly Gly Arg Asn Gly Ile
 420 425 430
 Val Leu Arg Leu Leu Pro Ser Leu Leu Ile Ser Asp Asp Glu Leu Lys
 435 440 445
 Val Phe Leu Asp Lys Phe Glu Gln Ala Leu Leu Ala Ala Gly Val Ser
 450 455 460
 Pro Ala
 465

<210> 6866

<211> 495

<212> PRT

<213> Enterobacter cloacae

<400> 6866

Pro Glu Leu Leu Ile Thr Met Ser Asp Ser Asn Pro Ile Leu Phe Ser
 1 5 10 15
 Ser Ala Gln Ser Ile Glu Ala Tyr Gln Gln Ala Ile Glu Gln Ser Thr
 20 25 30
 Gln Ala Val Met Gln Trp Leu Lys Gln Pro Glu Met Tyr Gln Gly Lys
 35 40 45
 Thr Val Ala Glu Leu Arg Asp Arg Ile Lys Leu Asp Phe Asn Pro Lys
 50 55 60
 Gly Leu Gly Asn Glu Ala Ala Ile Glu Arg Ala Val Glu Phe Phe Leu
 65 70 75 80
 Lys Asp Ser Leu Ser Val His His Pro Gln Cys Val Ala His Leu His
 85 90 95
 Cys Pro Ser Leu Val Val Ser Gln Ala Ala Glu Val Leu Ile Asn Ala

100										105										110									
Thr	Asn	Gln	Ser	Met	Asp	Ser	Trp	Asp	Gln	Ser	Pro	Ser	Ala	Thr	Ile														
115										120										125									
Ile	Glu	Ile	Lys	Leu	Ile	Glu	Trp	Leu	Arg	Thr	Arg	Val	Gly	Tyr	Gln														
130										135										140									
Ala	Gly	Asp	Ala	Gly	Val	Phe	Thr	Ser	Gly	Gly	Thr	Gln	Ser	Asn	Leu														
145										150										155									
Met	Gly	Leu	Met	Leu	Ala	Arg	Asp	Ala	Phe	Phe	Ala	Arg	Gln	Gly	His														
165										170										175									
Ser	Val	Gln	Gln	Asp	Gly	Leu	Thr	Gly	Asp	Leu	Arg	Lys	Ile	Arg	Val														
180										185										190									
Leu	Cys	Ser	Glu	Asn	Ala	His	Phe	Ser	Val	Gln	Lys	Asn	Met	Ala	Leu														
195										200										205									
Met	Gly	Leu	Gly	Tyr	Gln	Ser	Val	Val	Gln	Val	Lys	Thr	Asp	Glu	Phe														
210										215										220									
Ser	Arg	Met	Asp	Leu	Thr	Asp	Leu	Ala	Ala	Lys	Ile	Glu	Gln	Cys	Asn														
225										230										235									
Ala	Asn	Gly	Glu	Gln	Ile	Leu	Ala	Ile	Val																				

<210> 6867

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6867

Thr	Val	Cys	His	Pro	Phe	Ala	Asp	Leu	His	Thr	Lys	Ser	Ile	Ser	Asn
1				5					10					15	
Asp	Met	Thr	Gly	Glu	Lys	Met	Ala	Lys	Arg	Lys	Leu	Leu	Leu	Leu	Gly
			20					25					30		
Val	Leu	Val	Ser	Leu	Ala	Gly	Ala	Ala	His	Ala	Ala	Pro	Gln	Ala	Ser

```

          35              40              45
Thr Ala Pro Ser Gly Ile Lys Ala Tyr Glu Glu Gln Glu Phe Ile Ala
  50
Asp Phe Thr Lys Phe Lys Ile Gly Asp Thr Ala Pro Ala Gln Tyr Gln
  65
Thr Pro Glu Tyr Thr Ile Lys Gln Tyr Gln Leu Arg Asn Leu Pro Ala
  85
Pro Asp Ala Gly Thr His Trp Thr Tyr Met Gly Glu Asn Tyr Val Leu
 100
Ile Gly Asp Ala Asp Gly Lys Ile Tyr Lys Ala Tyr Asn Gly Asp Ile
 115
Phe Tyr His Arg
 130

```

<210> 6868

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 6868

```

Leu Ala Met Pro Met Ala Lys Ser Thr Lys Pro Ile Thr Glu Ile Phe
 1
Ser Ile Thr Ala Asp Thr Ile Leu Ile Arg Pro Trp Gln Glu Ser Asp
 20
Arg Pro Phe Leu Arg Thr Leu Phe Leu His Ala Arg Arg Glu Ala Trp
 35
Pro Trp Leu Asp Ser Ser Ala Trp Gln Leu Glu Asp Phe Asp Ala Ala
 50
Thr Leu Asp Glu Glu Ile Trp Val Ala Glu Gln Asp Gly His Arg Leu
 65
Gly Phe Ala Ser Val Trp Thr Asn Asp Asn Phe Leu His Asn Leu Phe
 85
Val Asp Pro Gln Tyr Gln Arg Leu Gly Val Gly His Leu Leu Leu Glu
 100
Gln Val Gln Lys Thr Phe Thr Asn Thr Gly Ala Leu Lys Cys Leu Val
 115
Lys Asn Glu Arg Ala Ile Ala Phe Tyr His Arg His Gly Trp His Ile
 130
Glu Ala Thr Gly Asp Ser Pro Asp Gly Glu Tyr Tyr Leu Met His Tyr
 145
Arg Leu Gly
 150

```

<210> 6869

<211> 750

<212> PRT

<213> Enterobacter cloacae

<400> 6869

```

Ser Gln Pro Gly Met Gly Thr Ser Phe Arg Ser Glu Arg Asn Glu Ala
 1
Leu Met Ser Ser Tyr Thr Thr Asp Asn Tyr Gly Ala Ala Ala Pro Gln
 20
Gln His Glu Val Asp Leu Val Arg Leu Leu Val Glu Met Ile Asp His
 35
Arg Thr Met Ile Leu Cys Val Thr Phe Leu Phe Thr Leu Cys Ala Gly
 50
Leu Tyr Ala Trp Val Thr Pro Pro Val Tyr Gln Ala Asp Ala Met Val
 65
Gln Ile Glu Ser Lys Gln Asp Asn Ser Leu Leu Lys Gly Leu Ser Gln
 85

```

Leu Gly Thr Asp Val Ser Pro Asp Val Ala Pro Glu Ile Leu Leu
 100 105 110
 Lys Ser Arg Met Ile Leu Gly Glu Thr Val Asp Lys Leu Gly Leu Thr
 115 120 125
 Gln Gln Ala Lys Gln Arg Val Leu Pro Val Val Gly Arg Leu Trp Gln
 130 135 140
 Arg Leu Gln Gly Arg Gly Gln Gly Lys Ile Thr Leu Gly Glu Leu Gln
 145 150 155 160
 Ile Pro Gln Val Glu Gly Lys Ala Gln Glu Leu Thr Leu Thr Val Gln
 165 170 175
 Glu Ala Gly Lys Tyr His Leu Lys Gly Glu Asn Ile Lys Ala Glu Gly
 180 185 190
 Arg Val Gly Lys Thr Leu Val Thr Gln Gly Ile Val Leu Leu Val Thr
 195 200 205
 Ser Ile Glu Ala Thr Pro Gly Thr Gln Phe Ser Leu Lys Ser Leu Thr
 210 215 220
 Arg Leu Glu Thr Ile Asn Ala Leu Lys Lys Ser Leu Thr Val Thr Glu
 225 230 235 240
 Ser Glu Lys Gln Ser Gly Ile Val Thr Leu Thr Leu Thr Gly Glu Asp
 245 250 255
 Pro Asp Asn Ile Ala Arg Val Leu Asn Ala Ile Ala Asp Asn Tyr Leu
 260 265 270
 Gln Gln Asn Ile Ala Arg Gln Glu Ala Gln Asp Ser Arg Ser Leu Asp
 275 280 285
 Phe Leu Gln Glu Gln Leu Pro Lys Ile Arg Ala Asp Leu Asp Gln Ala
 290 295 300
 Glu Ala Arg Leu Asn Ala Tyr Arg Ala Gln Arg Asp Ser Val Asp Leu
 305 310 315 320
 Ser Leu Glu Ala Lys Ser Val Leu Asp Gln Val Val Asn Val Glu Asn
 325 330 335
 Gln Leu Asn Glu Leu Thr Phe Arg Glu Ala Glu Ile Ser Gln Leu Phe
 340 345 350
 Lys Lys Ser His Pro Thr Tyr Arg Ala Leu His Glu Lys Arg Gln Thr
 355 360 365
 Leu Glu Arg Glu Arg Asp Arg Leu Asn Asn Arg Val Ser Ala Met Pro
 370 375 380
 Ser Thr Gln Gln Glu Ile Leu Arg Leu Ser Arg Asp Val Glu Ser Gly
 385 390 395 400
 Arg Thr Ile Tyr Leu Gln Leu Leu Thr Arg Gln Gln Glu Leu Asn Ile
 405 410 415
 Ser Arg Ser Ser Ala Val Gly Asn Val Arg Ile Ile Asp Glu Ala Val
 420 425 430
 Thr His Pro Asp Pro Ile Lys Pro Arg Lys Ala Leu Ile Ile Ile Leu
 435 440 445
 Gly Ala Leu Phe Gly Leu Met Leu Ala Met Gly Thr Val Leu Val Arg
 450 455 460
 Gln Ala Phe Lys Arg Gly Ile Thr Leu Ser Glu Gln Leu Glu Ala Gln
 465 470 475 480
 Gly Leu Pro Val Leu Ala Thr Leu Pro Arg Ser Gln Trp Leu Trp Ser
 485 490 495
 Lys Thr His Leu Arg Arg Lys Asn Pro Phe Ser Arg Arg Trp Lys His
 500 505 510
 Lys Thr Ser Asp Val Pro Phe Leu Pro Val Asp Arg Pro Ala Asp Met
 515 520 525
 Phe Val Glu Ala Val Arg Gly Leu Arg Thr Ser Leu Tyr Phe Ala Met
 530 535 540
 Met Glu Ala Glu Asn Arg Ile Val Met Ile Ser Gly Pro Thr Gln Asp
 545 550 555 560
 Cys Gly Lys Thr Leu Val Ala Thr Asn Leu Ala Ala Val Ala Gly Gln
 565 570 575
 Ser Gly Gln Arg Val Leu Phe Ile Asp Ala Asp Met Arg Gln Gly Tyr

```

      580                      585                      590
Val His Asn Ile Phe Gly Leu Glu Asn Arg Tyr Gly Leu Ser Cys Leu
595                      600                      605
Leu Glu Gly Lys Cys Asp Phe Thr Glu Val Ile Gln His Ala Glu Lys
610                      615                      620
Ala Gly Ile Asp Val Ile Thr Cys Gly Pro Glu Pro Leu Arg Pro Leu
625                      630                      635                      640
Glu Leu Leu Leu Ser Glu Arg Phe Leu Asp Ile Met Ser Trp Val Asn
645                      650                      655
Glu Gln Tyr Asp Ile Val Ile Ile Asp Thr Pro Pro Val Leu Ala Val
660                      665                      670
Thr Asp Ala Ser Leu Val Ala Arg Ala Ala Gly Thr Thr Leu Met Val
675                      680                      685
Ala Arg Phe Asp Lys Thr Ser Val Lys Glu Met Glu Asn Thr Val Lys
690                      695                      700
Arg Leu Gln His Val Gly Val Lys Val Ser Gly Thr Thr Ile Leu Asn Asp
705                      710                      715                      720
Ile Val Lys Ser Ala Ala Leu Phe Tyr Ser Ser Gly Tyr Ser Gln Cys
725                      730                      735
Asp Tyr Gly Tyr Ala Ser Arg Lys Lys Gly Asp Arg Arg
740                      745                      750

```

<210> 6870

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 6870

```

Cys Gln Arg Arg Glu Val Arg Cys Leu Pro Gly His Arg Phe Phe Thr
1                      5                      10                      15
His Gly Arg Ser Glu Thr Met Gln Pro Asp Leu Leu Asp Ser His Val
20                      25                      30
Leu His Gln Phe Arg Thr Arg Ser Pro Leu Thr His Cys Met Thr Asn
35                      40                      45
Asp Val Val Gln Thr Phe Thr Ala Asn Val Leu Leu Ala Leu Gly Ala
50                      55                      60
Ser Pro Ala Met Val Ile Glu Ala Glu Glu Ala Glu Gln Phe Ala Ala
65                      70                      75                      80
Leu Ala Asp Ala Leu Leu Ile Asn Val Gly Thr Leu Thr Ala Pro Arg
85                      90                      95
Ala Gln Ser Met Arg Arg Ala Ile Glu Ser Ala Val Ala Ala Gly Thr
100                      105                      110
Pro Trp Val Leu Asp Pro Val Ala Val Gly Ala Leu Ala Phe Arg Thr
115                      120                      125
Arg Phe Cys Gln Gln Ile Leu Ser Leu Lys Pro Ala Ala Ile Arg Gly
130                      135                      140
Asn Ala Ser Glu Ile Leu Ala Leu Ala Gly Met Ser Ala Gly Gly Arg
145                      150                      155                      160
Gly Val Asp Ser Thr Asp Thr Ala
165

```

<210> 6871

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 6871

```

Pro Tyr Arg Asn Gly Ser Leu His Gln Ile Val Ala Ala Ile Met Phe
1                      5                      10                      15
Lys Ser Ile Leu Val Val Cys Thr Gly Asn Ile Cys Arg Ser Pro Ile
20                      25                      30

```

Gly Glu Arg Leu Leu Arg Gln His Leu Pro Asp Arg His Ile Ala Ser
 35 40 45
 Ala Gly Ile Tyr Gly Leu Glu Gly Cys Pro Ala Asp Asp Ser Ala Gln
 50 55 60
 Asp Val Ala Trp Arg His Gly Ile Ser Leu Asp Gly His Val Ala Arg
 65 70 75 80
 Arg Leu Thr Arg Asn Leu Met Gln Gly Ser Asp Ser Ile Leu Val Met
 85 90 95
 Glu Pro Glu His Leu Arg Phe Ile Ala Ala Met Ala Pro Glu Ser Arg
 100 105 110
 Gly Lys Ser Leu Leu Phe Gly Gln Trp Leu Glu Pro Gln Asp Ile Pro
 115 120 125
 Asp Pro Tyr Arg Lys Ser Arg Glu Ala Phe Glu Tyr Val Phe Gly Leu
 130 135 140
 Leu Gly Lys Ala Ser Gln Glu Trp Ala Arg Arg Leu Gly Gln Lys Gly
 145 150 155 160
 Met Lys His

<210> 6872

<211> 380

<212> PRT

<213> *Enterobacter cloacae*

<400> 6872

Gly Leu Ile His Lys Asn Lys Gly Val Gly Met Ser Ser Gln Ser Gln
 1 5 10 15
 Ala Lys Ser Pro Glu Ala Leu Arg Ala Met Val Ala Gly Thr Leu Ala
 20 25 30
 Asn Phe Gln His Pro Thr Leu Lys His Asn Leu Thr Thr Leu Lys Ala
 35 40 45
 Leu His His Val Ala Trp Leu Asp Asp Thr Leu His Ile Glu Leu Gln
 50 55 60
 Met Pro Phe Val Trp Thr Ser Ala Phe Asp Ala Leu Lys Glu Gln Thr
 65 70 75 80
 Ser Ser Glu Leu Leu Arg Ile Thr Gly Ala Lys Ala Ile Asp Trp Lys
 85 90 95
 Leu Ser His Ser Ile Ala Thr Leu Lys Arg Val Lys Asn Gln Pro Gly
 100 105 110
 Val Asn Gly Val Lys Asn Ile Ile Ala Val Ser Ser Gly Lys Gly Gly
 115 120 125
 Val Gly Lys Ser Ser Thr Ala Val Asn Leu Ala Leu Ala Ala Ala
 130 135 140
 Glu Gly Ala Lys Val Gly Ile Leu Asp Ala Asp Ile Tyr Gly Pro Ser
 145 150 155 160
 Ile Pro Asn Met Leu Gly Ala Glu Asn Gln Arg Pro Thr Ser Pro Asp
 165 170 175
 Gly Thr His Met Ala Pro Ile Val Ala His Gly Leu Ala Thr Asn Ser
 180 185 190
 Ile Gly Tyr Leu Val Thr Asp Asp Asn Ala Met Val Trp Arg Gly Pro
 195 200 205
 Met Ala Ser Lys Ala Leu Leu Gln Met Leu Gln Glu Thr Met Trp Pro
 210 215 220
 Asp Leu Asp Tyr Leu Val Leu Asp Met Pro Pro Gly Thr Gly Asp Ile
 225 230 235 240
 Gln Leu Thr Leu Ala Gln Asn Ile Pro Val Thr Gly Ala Val Val Val
 245 250 255
 Thr Thr Pro Gln Asp Ile Ala Leu Ile Asp Ala Lys Lys Gly Ile Val
 260 265 270
 Met Phe Glu Lys Val Lys Val Pro Val Leu Gly Ile Val Glu Asn Met
 275 280 285

Ser Met His Ile Cys Ser Asn Cys Gly His His Glu Pro Ile Phe Gly
 290 295 300
 Thr Gly Gly Ala Glu Lys Leu Ala Ala Gln Tyr His Thr Gln Leu Leu
 305 310 315 320
 Gly Gln Met Pro Leu His Ile Ser Leu Arg Glu Asp Leu Asp Ser Gly
 325 330 335
 Lys Pro Thr Val Val Ser Arg Pro Asp Ser Glu Phe Ala Gln Met Tyr
 340 345 350
 Arg Gln Leu Ala Gly Arg Val Ala Ala Gln Leu Tyr Trp Gln Gly Glu
 355 360 365
 Val Ile Pro Gly Glu Ile Ala Phe Arg Ala Val
 370 375 380

<210> 6873

<211> 401

<212> PRT

<213> Enterobacter cloacae

<400> 6873

Asn Gly Lys Asn His Phe Gly Thr Tyr Ser Ile Ile Asn Thr Ile Lys
 1 5 10 15
 Arg Tyr Phe Tyr Ser Met Lys Asn Thr Thr Val Phe Ser Ile Leu Phe
 20 25 30
 Leu Ile Ile Thr Pro Leu Ser Gly Cys Val Phe Ser Pro Gly Gln His
 35 40 45
 Leu Asp Leu Ala Gly Lys Gln Val Met Thr Thr Glu Asn Ala Asn Asp
 50 55 60
 Arg Leu Glu Lys Arg Ile Asp Val Tyr Pro Leu Thr Pro Ser Leu Ile
 65 70 75 80
 Glu Lys Leu Arg Pro Ser Ala Leu Lys Ser Gln Ala Asn Pro Lys Leu
 85 90 95
 Asp Glu Gln Val Lys Asn Trp Glu Tyr Arg Ile Gly Val Gly Asp Ile
 100 105 110
 Leu Thr Val Thr Val Trp Asp His Pro Glu Leu Thr Thr Pro Ala Gly
 115 120 125
 Gln Tyr Arg Ser Ala Ser Asp Thr Gly Asn Trp Val Asn Ala Asp Gly
 130 135 140
 Thr Leu Phe Tyr Pro Tyr Val Gly Lys Leu Gln Val Ala Gly Lys Thr
 145 150 155 160
 Val Ala Arg Val Arg Glu Glu Ile Thr Ala Arg Leu Asn Asn Val Ile
 165 170 175
 Glu Ser Pro Gln Val Asp Val Ser Val Ala Ser Phe Arg Ser Gln Lys
 180 185 190
 Ala Tyr Val Thr Gly Glu Val Val Lys Ser Gly Gln Gln Ala Ile Thr
 195 200 205
 Asn Ile Pro Leu Thr Val Met Asp Ala Val Asn Ala Ala Gly Gly Leu
 210 215 220
 Ser Ala Asp Ala Asp Trp Arg Asn Val Val Leu Thr His Asn Gly Lys
 225 230 235 240
 Asp Met Arg Leu Ser Leu Tyr Ala Leu Met Gln His Gly Asp Leu Thr
 245 250 255
 Gln Asn Lys Leu Leu Tyr Pro Gly Asp Ile Leu Phe Val Pro Arg Asn
 260 265 270
 Asp Ala Leu Lys Val Phe Val Met Gly Glu Val Val Lys Gln Ser Thr
 275 280 285
 Leu Lys Met Asp Arg Ser Gly Met Thr Leu Ala Glu Ala Leu Gly Asn
 290 295 300
 Ala Gly Gly Leu Asn Gln Asn Met Ala Asp Ala Thr Gly Ile Phe Val
 305 310 315 320
 Ile Arg Ser Leu Pro Lys Ser Glu Arg Ser Glu Lys Ile Ala Asn Ile
 325 330 335

```

Tyr Gln Leu Asn Ala Gln Asp Ala Ser Ala Met Val Leu Gly Thr Glu
      340      345      350
Phe Gln Leu Glu Pro Tyr Asp Ile Val Tyr Val Thr Thr Ala Pro Leu
      355      360      365
Ser Arg Trp Asn Arg Val Ile Ser Gln Leu Val Pro Thr Ile Ser Gly
      370      375      380
Val His Asp Leu Thr Glu Thr Val Arg Tyr Ile Arg Ser Trp Pro Gln
      385      390      395      400

```

<210> 6874

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 6874

```

Ala Ile Thr Asp Ala Gln Met Lys Asp Ser Ile Ser Asn Tyr Ile Leu
1      5      10      15
Ser Trp Val Glu Asn Asn Phe Thr Ile Leu His Ile Gly Asp Leu
      20      25      30
Val Ala Asp Ile Gly Tyr Ser Arg Thr Ile Glu Thr Trp Phe Lys
      35      40      45
Glu Lys Tyr Arg Leu Ser Leu Gly Glu Tyr Ile Leu Arg Arg Arg Leu
      50      55      60
Ser Arg Ala Ala Ile Met Leu Arg Met Thr Ser Ile Pro Val Thr Asp
65      70      75      80
Ile Ala Tyr Leu Phe His Tyr Gln Ser Ser Gln Gly Phe Ser Arg Ala
      85      90      95
Phe Lys Lys Met Met Gly Leu Thr Pro Ser Glu Tyr Arg Cys Ala Arg
      100      105      110
Gly Trp Asn Phe Asp Ile Leu Gln Pro Ser Phe Leu Leu Ser Glu His
      115      120      125
Glu Thr Pro Glu Leu Glu Val Cys Tyr Leu Asp Glu Thr Phe Ile Tyr
      130      135      140
Thr His Glu Phe Ile Glu His Asp His Leu Phe Asp Thr Ser Val His
145      150      155      160
Asp Ile Thr Lys Lys Ile Lys Lys Leu Leu Thr Glu Asn Arg His Asp
      165      170      175
Ile Asp Lys Ile Ile Leu Met Pro Arg Arg Pro Glu Leu Gly Lys Ser
      180      185      190
Arg Ser Tyr Leu Val Glu Val Leu Ile Ser Tyr Ala Leu Gln Ser Asp
      195      200      205
Thr Val Thr Asn Lys Lys Ser Cys Ile Val Arg Gly Arg Tyr Ala Arg
      210      215      220
Met Pro Phe Ser Gly Ser Trp Glu Ile Tyr Ser Ala Phe Asn Lys Ile
225      230      235      240
Ala Phe Val Lys Ala Met Val Asn Gln Arg Leu Thr Leu Arg Asp Gly
      245      250      255
Ile Tyr Leu Met Lys Ile Asn Gly Tyr Ser Asp Glu Cys Val Asp Phe
      260      265      270
Asp Val Phe Ile Pro Ile Leu
      275      280

```

<210> 6875

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 6875

Met Asp Ala Met Asn Ser Arg Gln Gln Ile Ile Leu Gln Met Val Ile

```

1           5           10           15
Asp Gln Gly Arg Val Ser Val Val Asp Leu Ala Lys Ala Thr Gly Val
20           25           30
Ser Glu Val Thr Ile Arg Gln Asp Leu Asn Leu Leu Glu Lys Gln Ser
35           40           45
Tyr Leu Arg Arg Ala His Gly Tyr Ala Val Pro Leu Asp Ser Asp Asp
50           55           60
Val Glu Thr Arg Met Met Asn Asn Tyr Ala Leu Lys Arg Glu Leu Ala
65           70           75
Glu Phe Ala Ala Ser Leu Val Asn Asn Gly Glu Thr Val Phe Ile Glu
85           90           95
Asn Gly Ser Ser Asn Ala Leu Leu Ala Arg Thr Leu Ala Asp Gln Lys
100          105          110
Asp Val Thr Ile Ile Thr Val Ser Ser Tyr Ile Ala His Leu Leu Lys
115          120          125
Asp Thr Arg Cys Glu Val Ile Leu Leu Gly Gly Ile Tyr Gln Lys Lys
130          135          140
Ser Glu Ser Met Val Gly Pro Leu Thr Arg Gln Tyr Val Gln Gln Val
145          150          155
His Phe Ser Lys Ala Phe Ile Gly Ile Asp Gly Trp Gln Pro Asp Thr
165          170          175
Gly Phe Thr Gly Arg Asp Met Met Arg Ser Asp Val Val Asn Ala Val
180          185          190
Leu Ala Lys Glu Cys Glu Ala Ile Val Leu Thr Asp Ser Ser Lys Phe
195          200          205
Gly Ala Val His Pro Tyr Thr Met Gly Pro Ala Ser Arg Phe Ser Arg
210          215          220
Val Ile Thr Asp Glu Arg Leu Arg Asp Glu Tyr Arg Gln Gln Leu Glu
225          230          235
Gln Asp Gly Leu Thr Val Asp Ile Val Lys Lys Thr Ala
245          250

```

<210> 6876

<211> 81

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (53)

<400> 6876

```

Gln Val Ala Leu Asp Asn Leu Arg Ala Thr Leu Ala Ala Ala Gly Cys
1           5           10           15
Thr Phe Asp Asp Leu Ile Asp Val Lys Thr Phe His Thr Asp Pro Glu
20           25           30
Asn Gln Phe Pro Ala Ile Met Glu Ala Lys Lys Leu Ala Phe Pro His
35           40           45
Pro Pro Tyr Pro Xaa Trp Thr Ala Ile Gly Val Asn Trp Leu Ala Gly
50           55           60
Phe Asp Phe Glu Ile Lys Val Ile Ala Arg Ile Pro Thr Pro Ala Asn
65           70           75

```

<210> 6877

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 6877

Asp Gln Gly Thr Pro Met Glu Gln Arg Arg Phe Ser Gly Lys Gly His
 1 5 10 15
 Trp Tyr His Glu Thr Gln Ser Asn His Ser Gln Thr Asp Val Leu Pro
 20 25 30
 Leu Val Pro Glu Ala Ala Asn Val Asp Asp Arg Phe Leu Leu Asp Leu
 35 40 45
 Ala Leu Pro Asp Asp Ile Leu Ala Ser Cys Ala Gly Trp Leu Ala Pro
 50 55 60
 Ala Arg Thr Leu Cys His Leu Leu Phe Pro Leu Asp Thr Pro Val Ser
 65 70 75 80
 Arg Leu His Thr Leu Ser Ala Tyr Asp Arg Leu Ser Thr Ala Leu Thr
 85 90 95
 Val Ala Gln Ala Cys Gly Val Gln Arg Leu Cys Asn His Tyr Ala Ala
 100 105 110
 Leu Leu Ala Pro Leu Pro Gly Pro Asp Ser Ser Arg Glu Ser Asn Arg
 115 120 125
 Arg Leu Ala Glu Ile Thr Gln Tyr Ala Arg Gln Leu Ala Ser Ser Pro
 130 135 140
 Asp Val Ile Asp Asp Lys Ala Gln Asn Gln Leu Asp Glu Val Gly Leu
 145 150 155 160
 Thr Thr Tyr Asp Ile Val Leu Ile Asn Gln Ile Ile Gly Phe Val Gly
 165 170 175
 Phe Gln Ala Arg Val Val Ala Val Phe Gln Ala Leu Leu Gly His Pro
 180 185 190
 Val Arg Trp Leu Pro Gly His His Ile Gln Pro His Thr Leu Pro Val
 195 200 205
 Ser Phe Ser Arg Trp Thr Ala Thr Leu Pro Ala Val Glu Leu Lys Tyr
 210 215 220
 Ala Ser Ala Leu Gln Leu Glu Ala Leu Ser Arg Trp Gln Ala Glu Pro
 225 230 235 240
 Ala Leu Glu Ala Leu Thr Pro Val Leu Cys His Glu Pro Met Leu Leu
 245 250 255
 Asn Leu Thr Gly Glu Ile Leu Leu Asn His Pro Leu Ser Glu Gly Pro
 260 265 270
 Ala Ser Ser Met Ile Ser Ala Ala Leu Ala Leu Leu Val Ala Ser Pro
 275 280 285
 Asp Arg Phe Ser Ala Thr Gln Leu Thr Pro Leu Thr Gly Ser Gly Leu
 290 295 300
 Ser Pro Glu Lys Ala Ile Asn Leu Leu Thr Arg Asp Ala Phe Tyr Gly
 305 310 315 320
 Trp Leu Asn Arg Leu Arg Val Ala Leu Gly Lys Glu Glu
 325 330

<210> 6878

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 6878

Ala Met Asn Ile Arg Ile Lys Ala Met Gly Phe Leu Ser Gly Lys Arg
 1 5 10 15
 Ile Leu Val Thr Gly Val Ala Ser Lys Leu Ser Ile Ala Tyr Gly Ile
 20 25 30
 Ala Gln Ala Met His Arg Glu Gly Ala Glu Leu Ala Phe Thr Tyr Gln
 35 40 45
 Asn Asp Lys Leu Lys Gly Arg Val Glu Glu Phe Ala Ala Gln Leu Gly
 50 55 60
 Ser Ser Ile Val Leu Glu Cys Asp Val Ala Gln Asp Glu Ser Ile Asp
 65 70 75 80
 Gly Met Phe Ala Glu Leu Ala Lys Ala Trp Pro Lys Phe Asp Gly Phe
 85 90 95

```

Val His Ser Ile Gly Phe Ala Pro Gly Asp Gln Leu Asp Gly Asp Tyr
      100      105      110
Val Asn Ala Val Thr Arg Asp Gly Phe Lys Ile Ala His Asp Ile Ser
      115      120      125
Ser Tyr Ser Phe Val Ala Met Ala Lys Ser Cys Arg Ala Met Leu Asn
      130      135      140
Pro Gly Ala Ala Leu Leu Thr Leu Ser Tyr Leu Gly Ala Glu Arg Ala
      145      150      155
Ile Pro Asn Tyr Asn Val Met Gly Leu Ala Lys Ala Ser Leu Glu Ala
      165      170      175
Asn Val Arg Tyr Met Ala Asn Ala Met Gly Pro Glu Gly Val Arg Val
      180      185      190
Asn Ala Ile Ser Ala Gly Pro Ile Arg Thr Leu Ala Ala Ser Gly Ile
      195      200      205
Lys Asp Phe Arg Lys Met Leu Ala His Cys Glu Ala Val Thr Pro Ile
      210      215      220
Arg Arg Thr Val Thr Ile Glu Asp Val Gly Asn Ser Ala Ala Phe Leu
      225      230      235
Cys Ser Asp Leu Ser Ala Gly Ile Ser Gly Glu Val Val His Val Asp
      245      250      255
Gly Gly Phe Asn Ile Ala Ala Met Asn Glu Leu Glu Ile Lys
      260      265      270

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<210> 6879

<211> 647

<212> PRT

<213> Enterobacter cloacae

<400> 6879

```

Asn Ile Met Phe Gln Asp Asn Pro Leu Leu Ala Gln Leu Lys Gln Gln
1      5      10      15
Leu His Ser Gln Thr Pro Arg Ala Glu Gly Val Val Lys Ala Thr Glu
      20      25      30
Lys Gly Phe Gly Phe Leu Glu Val Asp Gly Gln Lys Ser Tyr Phe Ile
      35      40      45
Pro Pro Pro Gln Met Lys Lys Val Met His Gly Asp Arg Ile Ser Ala
      50      55      60
Val Ile His Thr Glu Lys Glu Arg Glu Ser Ala Glu Pro Glu Ala Leu
      65      70      75      80
Ile Glu Pro Phe Leu Thr Arg Phe Val Gly Lys Val His Lys Lys Asp
      85      90      95
Asp Arg Leu Ser Val Val Pro Asp His Pro Leu Leu Lys Asp Ala Ile
      100      105      110
Pro Cys Arg Ala Ala Arg Gly Val Glu His Asp Phe Val Glu Gly Asp
      115      120      125
Trp Ala Val Ala Glu Met Arg Arg His Pro Leu Lys Gly Asp Arg Gly
      130      135      140
Phe Tyr Ala Glu Leu Thr Gln Tyr Ile Thr Phe Gly Asp Asp His Phe
      145      150      155      160
Val Pro Trp Trp Val Thr Leu Ala Arg His Asn Leu Glu Lys Glu Ala
      165      170      175
Pro Asp Gly Val Ala Thr Glu Met Gln Asp Glu Gly Leu Glu Arg Arg
      180      185      190
Asp Leu Thr Ala Leu Asp Phe Val Thr Ile Asp Ser Ala Ser Thr Glu
      195      200      205
Asp Met Asp Asp Ala Leu Tyr Ala Glu Glu Thr Ala Asp Gly Lys Leu
      210      215      220
His Leu Thr Val Ala Ile Ala Asp Pro Thr Ala Trp Ile Val Glu Gly
      225      230      235      240
Ser Lys Leu Asp Glu Met Ala Lys Val Arg Ser Phe Thr Asn Tyr Leu
      245      250      255

```

Pro Gly Phe Asn Ile Pro Met Leu Pro Arg Glu Leu Ser Asp Asp Leu
 260 265 270
 Cys Ser Leu Arg Ala His Glu Val Arg Pro Val Leu Ala Cys Arg Met
 275 280 285
 Thr Ile Ala Ala Asp Gly Thr Ile Glu Glu Asp Ile Glu Phe Phe Ala
 290 295 300
 Ala Thr Ile Glu Ser Lys Ala Lys Leu Ala Tyr Asp Asp Val Ser Asp
 305 310 315
 Trp Leu Glu Asn Thr Gly Asn Trp Lys Pro Glu Ser Asp Asn Ile Ala
 320 325 330 335
 Ala Gln Ile Arg Leu Leu His Arg Val Cys Leu Ser Arg Ser Glu Trp
 340 345 350
 Arg Gln Thr His Ala Leu Val Phe Lys Asp Arg Pro Asp Tyr Arg Phe
 355 360 365
 Val Leu Gly Glu Lys Gly Glu Val Leu Asn Ile Val Ala Glu Pro Arg
 370 375 380
 Arg Ile Ala Asn Arg Ile Val Glu Glu Ala Met Ile Ser Ala Asn Ile
 385 390 395
 Cys Ala Ala Arg Val Leu Arg Asp Lys Leu Gly Phe Gly Ile Tyr Asn
 400 405 410 415
 Val His Thr Gly Phe Asp Pro Ala Asn Thr Glu Ala Leu Ala Ala Leu
 420 425 430
 Leu Lys Thr His Asp Val His Val Asp Pro Glu Glu Val Leu Thr Leu
 435 440 445
 Gln Gly Phe Cys Lys Leu Arg Arg Glu Leu Asp Ala Gln Pro Ser Gly
 450 455 460
 Phe Leu Asp Ser Arg Ile Arg Arg Phe Gln Ser Phe Ala Glu Ile Ser
 465 470 475 480
 Thr Glu Pro Gly Pro His Phe Gly Leu Gly Leu Glu Ala Tyr Ala Thr
 485 490 495
 Trp Thr Ser Pro Ile Arg Lys Tyr Gly Asp Met Val Asn His Arg Leu
 500 505 510
 Leu Lys Ala Ile Ile Lys Gly Glu Ser Val Ala Arg Pro Gln Asp Gly
 515 520 525
 Thr Thr Leu Gln Met Ala Glu Arg Arg Arg Leu Asn Arg Met Ala Glu
 530 535 540
 Arg Asp Val Gly Asp Trp Leu Tyr Ala Arg Phe Leu Asn Asp Lys Ala
 545 550 555 560
 Gly Thr Asp Thr Arg Phe Pro Ala Glu Ile Ile Asp Ile Ser Arg Gly
 565 570 575
 Gly Met Arg Val Arg Leu Val Asp Asn Gly Ala Val Ala Phe Ile Pro
 580 585 590
 Ala Pro Phe Leu His Ala Val Arg Asp Glu Leu Val Cys Ser Gln Glu
 595 600 605
 Asn Gly Thr Val Gln Ile Lys Gly Glu Thr Val Tyr Lys Val Thr Asp
 610 615 620
 Val Ile Asp Val Thr Ile Ala Glu Val Arg Met Glu Thr Arg Ser Ile
 625 630 635 640
 Ile Ala Arg Pro Val Ala
 645

<210> 6880

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 6880

Phe Val Arg Tyr Ser Ala Ala Ala Gly Glu Asn Val Met Asp Asp Leu
 1 5 10 15
 Glu Gln Asn Leu Leu Phe Arg Tyr Met Gly Thr His Ser Pro Trp Trp
 20 25 30

Arg Leu Thr Ala Asp Ser Asn Ala Leu His Leu Ala Ala Ser Glu Ser
 35 40 45
 Ala Asp Ile Ile Gln Val Val Ala Leu Asp Asp Glu Gln Ala Ala Leu
 50 55 60
 Ile Arg Gln Leu Thr Val Ile Thr Ser Ser Ile Ala Met Thr Leu Pro
 65 70 75 80
 Leu Tyr Gly Val Asp Val Pro Val His Leu Val Gly Arg Lys Ile Asn
 85 90 95
 Lys Asn Glu Trp Ala Gly Thr Ala Ser Ala Trp Asn Asp Thr Pro Ser
 100 105 110
 Val Ala Arg Asp Leu Ala Gln Gly Leu Ser Phe Ala Glu Gln Val Val
 115 120 125
 Ser Glu Ala Asn Ser Val Ile Val Ile Leu Asp Gln Asn Gly Asn Ile
 130 135 140
 Gln Arg Phe Asn Arg Leu Ser Glu Glu Tyr Thr Gly Leu Lys Glu Gln
 145 150 155 160
 Glu Val Ile Gly Gln Asn Val Phe Lys Leu Phe Met Ser Arg Ser Glu
 165 170 175
 Ala Ala Ala Ser Lys Arg Asn Ile Thr Gly Phe Phe Arg Asn Gly Ser
 180 185 190
 Ser Tyr Glu Val Glu Arg Trp Ile Lys Thr Arg Lys Gly Gln Arg Leu
 195 200 205
 Phe Leu Phe Arg Asn Lys Phe Val His Ser Gly Ser Gly Lys Asn Glu
 210 215 220
 Ile Phe Leu Ile Cys Ser Gly Thr Asp Ile Thr Glu Glu Arg Arg Ala
 225 230 235 240
 Gln Glu Arg Leu Arg Val Leu Ala Asn Thr Asp Thr Ile Thr Gly Leu
 245 250 255
 Pro Asn Arg Asn Ala Ile His Glu Leu Ile Ser Asp Ala Ile Thr Ala
 260 265 270
 Arg Gly Asp Thr Gln Val Gly Val Tyr Leu Asp Leu Asp Asn Phe
 275 280 285
 Lys Lys Val Asn Asp Ala Tyr Gly His Met Phe Gly Asp Gln Leu Leu
 290 295 300
 Gln Ala Val Ala Leu Ala Ile Leu Ser Cys Leu Asp Glu Gly Gln Thr
 305 310 315 320
 Leu Ala Arg Leu Gly Gly Asp Glu Phe Ile Val Met Ala Thr Asp Thr
 325 330 335
 Ser Gln Gly Ala Leu Glu Ala Met Ala Ser Arg Ile Leu Thr Arg Leu
 340 345 350
 Arg Gln Pro Phe Arg Ile Gly Leu Ile Glu Val Tyr Thr Gly Cys Ser
 355 360 365
 Leu Gly Ile Ala Leu Ala Pro Gln His Gly Asn Asp Arg Glu Ser Val
 370 375 380
 Ile Arg Asn Ala Asp Thr Ala Met Tyr Thr Ala Lys Glu Asn Gly Arg
 385 390 395 400
 Gly Lys Phe Cys Val Phe Ser Pro Glu Met Asn Gln Arg Val Phe Glu
 405 410 415
 Tyr Leu Trp Leu Asp Thr Asn Leu Arg Lys Ala Leu Asp Asn Asp Gln
 420 425 430
 Leu Leu Ile His Tyr Gln Pro Lys Met Thr Trp Arg Gly Glu Val Arg
 435 440 445
 Ser Leu Glu Ala Leu Val Arg Trp Gln Ser Pro Glu Arg Gly Leu Ile
 450 455 460
 Pro Pro Met Glu Phe Ile Ser Tyr Ala Glu Glu Ser Gly Leu Ile Val
 465 470 475 480
 Pro Leu Gly Arg Trp Val Met Leu Asp Val Val Arg Gln Val Ala Lys
 485 490 495
 Trp Arg Asp Lys Gly Ile Asn Met Arg Val Ala Val Asn Val Ser Ala
 500 505 510
 Arg Gln Leu Ala Asp Gln Thr Ile Phe Ser Asp Leu Lys Gln Ala Leu

```
<210> 6881
<211> 81
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6882
<211> 117
<212> PRT
<213> Enterobacter cloacae
```

4400> 6882															
Cys	Ile	Thr	Glu	Lys	Gly	Gly	Ile	Met	Arg	Asp	Ala	Asn	Ser	Arg	Leu
1				5					10					15	
Val	Tyr	Ser	Thr	Asp	Thr	Gly	Arg	Ile	Glu	Glu	Pro	Lys	Glu	Lys	Ala
			20					25					30		
Glu	Arg	Pro	Lys	Gly	Asp	Gly	Ile	Val	Arg	Ile	Gln	Arg	Gln	Thr	Ser
			35				40					45			
Gly	Arg	Lys	Gly	Lys	Gly	Val	Cys	Leu	Val	Thr	Gly	Ile	Asp	Leu	Asp
			50			55					60				
Asp	Ala	Asp	Leu	Val	Lys	Leu	Ala	Ala	Glu	Leu	Lys	Lys	Cys	Lys	Gly
65				70					75					80	
Cys	Gly	Gly	Ala	Val	Lys	Asp	Gly	Ile	Ile	Glu	Ile	Gln	Gly	Asp	Lys
				85					90					95	
Arg	Asp	Leu	Ile	Lys	Thr	Leu	Leu	Glu	Ala	Lys	Gly	Met	Lys	Val	Lys
			100					105					110		

Leu Ala Gly Gly
115

<210> 6883

<211> 290

<212> PRT

<213> *Enterobacter cloacae*

<400> 6883

Gly Gly Gly Arg Leu Phe Phe Ile Pro Ala Val Lys Thr Phe Asp Ser
1 5 10 15
Val His Leu Pro Arg Gly Gln Val Glu Cys Thr Pro Phe Ile Cys Ser
20 25 30
Ala Pro Leu Arg Ala His Arg Arg Lys Gly Leu Val Met Thr Ser Val
35 40 45
Thr Ser Ser Thr Ser Arg Val Val Thr Asp Ser Pro Val Val Val Ala
50 55 60
Leu Asp Tyr Asn Asn Arg Asp Ala Ala Leu Ala Phe Val Asp Gly Ile
65 70 75 80
Asp Pro Arg Asp Cys Arg Leu Lys Val Gly Lys Glu Met Phe Thr Leu
85 90 95
Phe Gly Pro Gln Ile Val Arg Asp Leu His Gln Arg Gly Phe Asp Val
100 105 110
Phe Leu Asp Leu Lys Phe His Asp Ile Pro Asn Thr Thr Ala His Ala
115 120 125
Val Ala Ala Ala Ala Glu Leu Gly Val Trp Met Val Asn Val His Ala
130 135 140
Ser Gly Gly Ala Arg Met Met Thr Ala Ala Arg Glu Ala Leu Val Pro
145 150 155 160
Phe Gly Asn Asp Ala Pro Leu Leu Ile Ala Val Thr Val Leu Thr Ser
165 170 175
Met Asp Glu Ser Asp Leu Arg Asp Leu Gly Val Thr Leu Ser Pro Ala
180 185 190
Glu His Ala Glu Arg Leu Ala Arg Leu Thr Gln Gln Cys Gly Leu Asp
195 200 205
Gly Val Phe Cys Ser Ala Gln Glu Ala Val Arg Phe Lys Ser Glu Leu
210 215 220
Gly Arg Asp Phe Lys Leu Val Thr Pro Gly Ile Arg Pro Ala Gly Ser
225 230 235 240
Glu Ser Gly Asp Gln Arg Arg Ile Met Thr Pro Glu Gln Ala Leu Ser
245 250 255
Ala Gly Val Asp Tyr Met Val Ile Gly Arg Pro Val Thr Gln Ser Ala
260 265 270
His Pro Ala Glu Thr Leu Lys Ala Ile Asn Ala Ser Leu Lys Lys Gly
275 280 285
Ala
290

<210> 6884

<211> 469

<212> PRT

<213> *Enterobacter cloacae*

<400> 6884

Asn Cys Ala Arg Val Asp Asn Gly Tyr Ala Ile Leu Arg Leu Tyr Leu
1 5 10 15
Cys Ala Val Arg Arg Lys Met Lys Asn Ile Thr Leu Ala Glu Lys Leu
20 25 30
Ile Met Leu Ser Gly Ala Ala Leu Phe Ala Leu Ile Ile Ala Val Asn
35 40 45
Ser Phe Cys Val Asn Asp Asn Pro Gly Phe Arg Val Pro Met Thr Thr

50 55 60
 Tyr Leu Ile Val Met Ile Ala Leu Phe Phe Leu Asp Thr Ile Ile Phe
 65 70 75 80
 Ile Phe Ile Gln Met Leu Tyr Ala Ser Asp Arg Ser Arg Phe Ser Leu
 85 90 95
 Phe Ile Leu Ser Leu Ala Phe Leu Ser Gly Leu Val Tyr Phe Ile Glu
 100 105 110
 Thr Ile Ile Val Ile Gln Leu Pro Glu His Ala Gly Phe Thr Gln Ala
 115 120 125
 Ala Lys Thr Asn Asp Thr Ala Val Phe Tyr Phe Phe Arg Gln Leu Ser
 130 135 140
 Phe Ile Val Leu Leu Ala Leu Ala Val Arg Val Glu Lys Ile Thr Arg
 145 150 155 160
 Arg Ser Thr Leu Arg Phe Arg Asn Lys Ile Ser Met Thr Leu Ala Leu
 165 170 175
 Met Met Thr Leu Val Met Phe Pro Met Leu Ala His Tyr Leu Ser Ser
 180 185 190
 Tyr His Pro Ala Trp Thr Leu Thr Ile Ala Ala Tyr Glu Asp Glu His
 195 200 205
 His Tyr Pro Val Trp Asp Ile Arg Tyr Leu Asn Val Leu Ile Leu Leu
 210 215 220
 Trp Ser Ala Leu Leu Cys Tyr Met Ile Ser Val Thr Arg Leu Ala Ser
 225 230 235 240
 Gly Ile Trp Asn Ser Ile Ile Val Val Cys Leu Ser Ala Ile Val Tyr
 245 250 255
 Asn Phe Phe Leu Leu Leu Leu Asp Thr Tyr Asn Leu Ser Leu Trp Tyr
 260 265 270
 Ile Ser Arg Ala Val Glu Val Leu Ser Lys Leu Phe Val Ile Cys Thr
 275 280 285
 Leu Met Phe His Val Phe Asn Leu Leu Lys Ile Phe Gly Asp Arg Val
 290 295 300
 Asp Arg Asp Pro Leu Thr Gln Ile Tyr Asn Arg Lys Tyr Phe Tyr Glu
 305 310 315 320
 Ala Leu Pro Arg Val Arg Ser Leu Arg Thr Glu Lys Gly Thr Ser Ile
 325 330 335
 Met Met Leu Asp Ile Asp Asn Phe Lys Ser Ile Asn Asp Asn Trp Gly
 340 345 350
 His Leu Val Gly Asp Arg Val Ile Leu Ala Val Val Asp Ile Ile Lys
 355 360 365
 Asp Ser Ile Arg Asp Asn Asp Ile Phe Ala Arg Leu Gly Gly Glu Glu
 370 375 380
 Phe Gly Leu Leu Leu Pro Asp Thr Asp Gly Lys Gln Ala Met Ala Val
 385 390 395 400
 Ala Glu Arg Ile Arg Gln Asn Val Gln Gln Arg Thr Gly Pro Gly Tyr
 405 410 415
 His Tyr Ala Leu Pro Val Lys Val Thr Leu Ser Ile Gly Val Cys Ser
 420 425 430
 Ala Ile Gln Asn Asn Val Asn Gly Asn Asp Ile Met Arg Asp Val Asp
 435 440 445
 Glu Ala Leu Tyr Glu Ala Lys His Asn Gly Lys Asn Arg Ile Val Thr
 450 455 460
 Arg Gln Ala Glu
 465

<210> 6885

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 6885

Ser Lys Thr Ala Arg Asn Ala Leu Phe Tyr Lys Arg Asn Ser Thr Met

1 5 10 15
 Thr Val Ile Asn Gln Thr Thr Cys Thr Leu Phe Thr Asp Ala Glu Arg
 20 25 30
 Phe Thr Gln Leu Ala Ala Tyr Tyr Glu Ala Glu Arg Arg Thr Val Trp
 35 40 45
 Met Met Leu Arg Ala Thr Pro Arg Pro Cys Phe Asn His Ala Leu Ile
 50 55 60
 Glu Glu Ile Met Asn Leu Ser Trp Leu Val Arg Gln Ser Gly Phe Val
 65 70 75 80
 Val Asp Phe Trp Val Thr Gly Ser Leu Val Pro Asp Ile Tyr Asn Thr
 85 90 95
 Gly Gly Asp Leu Gln Phe Phe Val Glu Cys Ile Lys Asn Asn Arg Arg
 100 105 110
 Glu Ala Leu Arg Ala Tyr Ala Arg Ala Cys Val Asp Cys Val His Ala
 115 120 125
 Ala Ser Arg Gly Phe Asp Thr Gly Ala Val Thr Leu Ala Met Val Glu
 130 135 140
 Gly Ser Ala Leu Gly Gly Gly Phe Glu Ala Ala Leu Ala His His Phe
 145 150 155 160
 Ile Leu Ala Gln Arg Asp Ala Arg Leu Gly Phe Pro Glu Ile Ala Phe
 165 170 175
 Asn Leu Phe Pro Gly Met Gly Gly Tyr Ser Leu Val Ala Arg Arg Ala
 180 185 190
 Gly Met Lys Met Ala Glu Ala Leu Ile Tyr Lys Gly Glu Thr His Thr
 195 200 205
 Ala Glu Trp Tyr Glu Gln His Gly Leu Val Asp Leu Leu Phe Glu Pro
 210 215 220
 Leu Gln Ser Tyr Val Ser Val Arg Thr Phe Ile Asp Thr Leu Gln Pro
 225 230 235 240
 Lys Leu Asn Gly Val Arg Ala Met Leu Arg Ala Arg Thr Arg Val Leu
 245 250 255
 Pro Leu Pro Arg Ser Glu Leu Met Asp Ile Thr Glu Asp Trp Val Asp
 260 265 270
 Ala Ala Phe Cys Leu Glu Pro Lys Asp Ile Ala Tyr Met Glu Arg Leu
 275 280 285
 Val Met Leu Gln Asn Arg His Gln Ala Thr Gly Leu Arg Lys Ala Ser
 290 295 300

305

<210> 6886

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 6886

Asn Ser Leu Leu Asn Leu Phe Leu Arg Thr Arg Asn Asp Ala Met Ser
 1 5 10 15
 Lys Ser Glu Asn Leu Tyr Ser Ala Ala Arg Glu Leu Ile Pro Gly Gly
 20 25 30
 Val Asn Ser Pro Val Arg Ala Phe Thr Gly Val Gly Gly Thr Pro Leu
 35 40 45
 Phe Ile Glu Arg Ala Asp Gly Ala Tyr Leu Tyr Asp Val Asp Gly Lys
 50 55 60
 Ala Tyr Val Asp Tyr Val Gly Ser Trp Gly Pro Met Val Leu Gly His
 65 70 75 80
 Asn His Pro Ala Ile Arg Asn Ala Val Ile Glu Ala Ala Gln Arg Gly
 85 90 95
 Leu Ser Phe Gly Ala Pro Thr Glu Met Glu Val Lys Met Ala Glu Leu
 100 105 110
 Val Thr Glu Leu Val Pro Thr Met Asp Met Val Arg Met Val Asn Ser

```

      115              120              125
Gly Thr Glu Ala Thr Met Ser Ala Ile Arg Leu Ala Arg Gly Phe Thr
130              135              140
Gly Arg Asp Lys Ile Ile Lys Phe Glu Gly Cys Tyr His Gly His Ala
145              150              155              160
Asp Cys Leu Leu Val Lys Ala Gly Ser Gly Ala Leu Thr Leu Gly Gln
165              170              175
Pro Asn Ser Pro Gly Val Pro Ala Asp Phe Ala Lys His Thr Leu Thr
180              185              190
Cys Thr Tyr Asn Asp Leu Asp Thr Val Arg Ala Ala Phe Glu Gln Tyr
195              200              205
Pro Gln Glu Ile Ala Cys Ile Ile Val Glu Pro Val Ala Gly Asn Met
210              215              220
Asn Cys Ile Pro Pro Gln Pro Asp Phe Leu Pro Gly Leu Arg Ala Leu
225              230              235              240
Cys Asp Glu Phe Gly Ala Leu Leu Ile Ile Asp Glu Val Met Thr Gly
245              250              255
Phe Arg Val Ala Leu Ala Gly Ala Gln Ser Tyr Tyr Gly Val Glu Pro
260              265              270
Asp Leu Thr Cys Leu Gly Lys Ile Ile Gly Gly Gly Met Pro Val Gly
275              280              285
Ala Phe Gly Gly Arg Lys Asp Val Met Asp Ala Leu Ala Pro Thr Gly
290              295              300
Pro Val Tyr Gln Ala Gly Thr Leu Ser Gly Asn Pro Ile Ala Met Ala
305              310              315              320
Ala Gly Phe Ala Cys Leu Thr Glu Val Ala Gln Pro Gly Ile His Gln
325              330              335
Thr Leu Thr Asp Arg Thr Thr Gln Leu Ala Asn Gly Leu Leu Glu Ala
340              345              350
Ala Glu Asp Ala Gly Ile Pro Leu Val Val Asn His Val Gly Gly Met
355              360              365
Phe Gly Ile Phe Phe Thr Glu Ala Lys Thr Val Thr Cys Tyr Gln Asp
370              375              380
Val Val Lys Cys Asp Val Glu Arg Phe Lys Arg Phe Phe His Leu Met
385              390              395              400
Leu Glu Glu Gly Val Tyr Leu Ala Pro Ser Ala Phe Glu Ala Gly Phe
405              410              415
Met Ser Val Ala His Ser Glu Glu Asp Ile Asn Asn Thr Ile Asp Ala
420              425              430
Ala Arg Lys Val Phe Ala Lys Leu
435              440

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<210> 6887

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6887

```

Met Leu Tyr Gln Ser Phe Pro Gln Ala Glu Arg Ala Val Pro Ala Gln
1      5      10      15
Ala Ala Tyr Met Thr Leu Trp Thr Met Gln Gln Val Val Gln Arg Gly
20     25     30
Thr Gly Arg Gln Leu Gly Ala Lys Tyr Pro Gly Leu His Leu Ala Gly
35     40     45
Lys Thr Gly Thr Thr Asn Asn Asn Val Asp Thr Trp Phe Ala Gly Ile
50     55     60
Asp Gly Arg Glu Val Val Ile Thr Trp Val Gly Arg Asp Asn Asn Gln
65     70     75     80
Pro Thr Lys Leu Tyr Gly Ala Ser Gly Ala Met Ser Ile Tyr Gln Arg
85     90     95
Tyr Leu Ala Asn Gln Ser Pro Val Pro Leu Asn Leu Val Ala Pro Glu

```

100	105	110
Asp Ile Val Asp Met Gly Val	Asp Ser Ser Gly Asn Phe	Ile Cys Gly
115	120	125
Gly Gly Val Arg Thr Leu Pro	Val Trp Thr Thr Asn Pro	Asp Ala Leu
130	135	140
Cys Gln Gln Ser Gln Pro Glu	Glu Pro Thr Gly Asn Pro	Phe Asp Gln
145	150	155
Ser Ser Gln Pro Gln Gln Pro	Gln Gln Gln Pro Gln Gln	Gln Gln
165	170	175
Glu Lys Lys Asp Ser Asp Gly	Val Ala Gly Trp Ile Lys	Asp Met Phe
180	185	190
Gly Gly Asn		
195		

<210> 6888

<211> 778

<212> PRT

<213> Enterobacter cloacae

<400> 6888

Thr Leu Asn Ser Cys Arg Ala Ala	Tyr Arg Leu Leu Cys Arg	Gln Arg
1	5	10
Phe Ala Tyr Tyr Ser Ala Val	Ile Ile Ile Leu Val Tyr	Val Ile
20	25	30
Ile His Leu Phe His Gln Arg Ser	Ile Met Ala Leu Ser Asn	Thr Ala
35	40	45
Gln Pro Ile Asn Thr Ser Leu Arg	Lys Leu Ala Val Val	Val Ala Thr
50	55	60
Ala Val Ala Gly Met Ser Ala Tyr	Ala Gln Ala Ala Glu Thr	Pro Lys
65	70	75
Lys Glu Glu Thr Ile Thr Val Thr	Ala Ala Pro Ala Ala Gln	Glu Ser
85	90	95
Ala Trp Gly Pro Ala Pro Thr Ile	Ala Ala Lys Arg Thr Ala	Thr Ala
100	105	110
Thr Lys Thr Asp Thr Pro Ile Glu	Lys Thr Pro Gln Ser Ile	Ser Val
115	120	125
Val Thr Arg Glu Glu Met Asp Met	Lys Gln Pro Gly Thr Val	Lys Gln
130	135	140
Ala Leu Ala Tyr Thr Pro Ser Val	Phe Ala Thr Arg Gly Ala	Ser Thr
145	150	155
Thr Tyr Asp Val Val Ser Ile Arg	Gly Phe Thr Thr Ser Ser	Thr Val
165	170	175
Asn Thr Asn Gln Tyr Leu Asp Gly	Met Lys Leu Gln Gly Asp	Asn Tyr
180	185	190
Ser Glu Ala Ser Met Asp Pro Tyr	Phe Leu Glu Arg Val Glu	Leu Leu
195	200	205
Arg Gly Pro Thr Ser Val Leu Tyr	Gly Lys Ser His Pro Gly	Gly Val
210	215	220
Val Ser Met Val Ser Lys Arg Pro	Thr Thr Glu Pro Leu Lys	Glu Ile
225	230	235
Gln Phe Lys Met Gly Thr Asp Asn	Leu Trp Gln Thr Gly Phe	Asp Phe
245	250	255
Ser Asp Ala Ile Asp Asp Asp Gly	Val Trp Ser Tyr Arg Leu	Thr Gly
260	265	270
Leu Gly Arg Ser Glu Asn Ala Gln	Gln Glu Met Val Lys Ser	Thr Arg
275	280	285
Tyr Ala Ile Ala Pro Ser Phe Ser	Trp Arg Pro Asp Asp	Lys Thr Asp
290	295	300
Phe Thr Phe Leu Ser Asn Phe	Gln Ser Asp Pro Asp	Ala Gly Tyr Tyr
305	310	315
Gly Trp Leu Pro Arg Glu Gly	Thr Val Val Pro Tyr	Tyr Asp Ala Asn
		320

325 330 335
 Gly Lys Ala His Lys Leu Pro Thr Asp Phe Asn Glu Gly Asp Glu Asp
 340 345 350
 Asn Lys Ile Ser Arg Arg Gln Lys Met Val Gly Tyr Ser Phe Ala His
 355 360 365
 Glu Phe Asn Asp Thr Phe Thr Val Arg Gln Asn Leu Arg Tyr Thr Lys
 370 375 380
 Ile Asn Thr Leu Tyr Arg Ser Val Tyr Gly Asn Gly Tyr Ile Ala Pro
 385 390 395 400
 Ala Gln Ile Ser Arg Ala Tyr Val Arg Ser Asp Glu Asp Leu Asn Ser
 405 410 415
 Phe Thr Val Asp Thr Gln Leu Gln Ser Lys Phe Ala Thr Gly Ala Val
 420 425 430
 Asp His Thr Leu Leu Thr Gly Val Asp Tyr Leu Arg Met Arg Asn Asp
 435 440 445
 Ile Asp Ala Asp Tyr Gly Thr Ala Asp Pro Ile Ser Met Asn Asn Pro
 450 455 460
 Gln His Gly Asn Ala Asn Val Asn Val Asn Phe Pro Tyr Ala Met Leu
 465 470 475 480
 Asn Arg Gln Glu Gln Thr Gly Leu Tyr Ala Gln Asp Gln Ala Glu Trp
 485 490 495
 Asp Lys Trp Val Leu Thr Leu Gly Gly Arg Tyr Asp Phe Ala Lys Thr
 500 505 510
 Ser Ala Phe Asn Arg Asn Asn Gly Thr Thr Ala Glu Ile Asn Asp Gln
 515 520 525
 Ala Phe Thr Trp Arg Gly Gly Ile Asn Tyr Leu Phe Asp Asn Gly Ile
 530 535 540
 Thr Pro Tyr Phe Ser Tyr Ser Glu Ser Phe Glu Pro Leu Ser Gly Thr
 545 550 555 560
 Thr Gln Gly Gly Lys Pro Phe Asp Pro Ala Arg Gly Lys Gln Tyr Glu
 565 570 575
 Ala Gly Val Lys Tyr Val Pro Lys Asp Leu Pro Val Val Val Thr Ala
 580 585 590
 Ala Val Tyr Gln Leu Thr Lys Asn Asn Asn Leu Thr Ala Asp Pro Ala
 595 600 605
 Asn Pro Thr Ser Gly Phe Ser Val Gln Gly Gly Glu Ile Arg Ser Arg
 610 615 620
 Gly Phe Glu Leu Glu Ala Lys Ala Ala Val Ser Ala Asn Val Asn Val
 625 630 635 640
 Thr Ala Ala Tyr Ser Tyr Thr Asp Ala Glu Tyr Thr His Asp Thr Trp
 645 650 655
 Tyr Glu Gly Arg Arg Pro Ala Glu Val Pro Arg Asn Met Ala Ser Leu
 660 665 670
 Trp Ala Asp Tyr Thr Phe His Glu Thr Ala Leu Ser Gly Leu Thr Val
 675 680 685
 Gly Ala Gly Ala Arg Tyr Ile Gly Asn Thr Val Thr Tyr Tyr Ser Ser
 690 695 700
 Ala Ser Pro Lys Ala Tyr Glu Ser Phe Asn Val Ala Gly Tyr Ala Leu
 705 710 715 720
 Ala Asp Ala Thr Val Lys Tyr Asp Leu Ala Arg Phe Gly Leu Pro Gly
 725 730 735
 Ser Ser Val Gly Val Asn Val Asn Asn Ile Phe Asp Arg Glu Tyr Val
 740 745 750
 Ser Ser Cys Tyr Ser Glu Tyr Ala Cys Tyr Trp Gly Ala Gly Arg Gln
 755 760 765
 Val Val Ala Thr Ala Thr Phe Arg Phe
 770 775

<210> 6889

<211> 714

<212> PRT

<213> Enterobacter cloacae

<400> 6889

Ala Arg Asp Ala Asn Pro Asp Gly Asp Ser Ala Leu Ala Gly Asn Ala
 1 5 10 15
 Val Arg Pro Arg Ala Ala Leu Pro Ala Arg Ala Ser Gly Met Val Leu
 20 25 30
 Arg Arg Asp Ala Val Gly His Ala Phe Cys Pro Arg Ala Gly Gln Cys
 35 40 45
 Thr Gly Arg Gln Gly Met Ser Thr Arg Met Ala Arg Phe Pro Met Leu
 50 55 60
 Leu Leu Ala Ile Ile Phe Leu Ala Ala Leu Ala Leu Thr Gly Phe Asn
 65 70 75 80
 Leu Thr Thr Ala Leu Pro Arg Glu Gln Trp Ala Ala Ala Phe Ala Ala
 85 90 95
 Pro Asp Ile Asp Asn Ile Gln Gln Met Leu Phe His Tyr Ser Leu Leu
 100 105 110
 Pro Arg Leu Ala Ile Ser Leu Leu Val Gly Ala Gly Leu Gly Leu Val
 115 120 125
 Gly Val Leu Phe Gln Gln Val Leu Arg Asn Pro Leu Ala Glu Pro Thr
 130 135 140
 Thr Leu Gly Val Ala Thr Gly Ala Gln Leu Gly Ile Thr Ile Thr Thr
 145 150 155 160
 Leu Trp Thr Leu Pro Gly Ala Leu Thr Ser Gln Phe Ala Ala Leu Ala
 165 170 175
 Gly Ala Cys Val Val Gly Ala Leu Val Phe Gly Val Ala Trp Gly Lys
 180 185 190
 Arg Leu Ser Pro Val Thr Leu Ile Leu Ala Gly Leu Val Val Ser Leu
 195 200 205
 Tyr Cys Gly Ala Ile Asn Gln Leu Leu Val Leu Phe His His Asp Gln
 210 215 220
 Leu Gln Ser Met Phe Met Trp Ser Thr Gly Thr Leu Thr Gln Thr Asp
 225 230 235 240
 Trp Ser Ile Val Gln Arg Leu Trp Pro Gln Leu Phe Gly Gly Val Val
 245 250 255
 Leu Thr Leu Leu Leu Leu Arg Pro Leu Thr Leu Met Gly Leu Asp Asp
 260 265 270
 Gly Val Ala Arg Asn Leu Gly Leu Ala Leu Ser Leu Ala Arg Leu Ala
 275 280 285
 Ala Leu Thr Leu Ala Ile Val Leu Ser Ala Leu Leu Val Asn Ala Val
 290 295 300
 Gly Ile Ile Gly Phe Ile Gly Leu Phe Ala Pro Leu Leu Ala Lys Met
 305 310 315 320
 Leu Gly Ala Arg Arg Leu Leu Ala Arg Leu Met Leu Ala Pro Leu Ile
 325 330 335
 Gly Ala Leu Ile Leu Trp Leu Ser Asp Gln Leu Ile Leu Trp Leu Thr
 340 345 350
 Arg Val Trp Met Glu Val Ser Thr Gly Ser Val Thr Ala Leu Ile Gly
 355 360 365
 Ala Pro Leu Leu Leu Trp Leu Leu Pro Arg Leu Arg Ser Ile Ser Ala
 370 375 380
 Pro Ala Met Asp Ala Gly Asp Lys Val His Ala Glu Arg Gln Ser Val
 385 390 395 400
 Val Trp Phe Ser Leu Ala Gly Leu Ala Val Leu Val Ile Ala Ser Phe
 405 410 415
 Ala Ala Leu Ser Leu Gly Arg Asp Ala Thr Gly Trp His Trp Ala Thr
 420 425 430
 Gly Asp Leu Leu His Glu Leu Met Gln Trp Arg Trp Pro Arg Ile Phe
 435 440 445
 Ser Ala Leu Ile Ala Gly Val Met Leu Ala Val Ala Gly Cys Ile Ile
 450 455 460

Gln Arg Leu Thr Gly Asn Pro Met Ala Ser Pro Glu Val Leu Gly Ile
 465 470 475 480
 Ser Ser Gly Ala Ala Phe Gly Val Val Leu Met Leu Phe Leu Val Pro
 485 490 495
 Gly Asn Ala Phe Gly Trp Leu Met Pro Ala Gly Ser Ile Gly Ala Ala
 500 505 510
 Val Thr Leu Met Ile Ile Leu Ile Ala Ser Gly Arg Gly Gly Phe Ser
 515 520 525
 Pro His Arg Met Leu Leu Ala Gly Met Ala Leu Ser Thr Ala Phe Thr
 530 535 540
 Met Leu Leu Met Met Leu Gln Ala Ser Gly Asp Pro Arg Met Ala Gln
 545 550 555 560
 Ile Leu Thr Trp Ile Ser Gly Ser Thr Tyr Asn Ala Thr Gly Ser Gln
 565 570 575
 Val Val His Thr Gly Ile Val Met Ile Val Leu Leu Ala Ile Val Pro
 580 585 590
 Leu Cys Arg Arg Trp Met Thr Ile Leu Pro Leu Gly Gly Asp Thr Ala
 595 600 605
 Arg Ala Val Gly Leu Ala Leu Thr Pro Thr Arg Ile Ala Leu Leu Leu
 610 615 620
 Leu Ala Ala Cys Leu Thr Ala Thr Ala Thr Met Thr Ile Gly Pro Leu
 625 630 635 640
 Ser Phe Val Gly Leu Met Ala Pro His Ile Ala Arg Met Met Gly Phe
 645 650 655
 Arg Arg Thr Leu Pro His Ile Ala Ile Ser Ala Leu Thr Gly Gly Ala
 660 665 670
 Ile Leu Val Phe Ala Asp Trp Cys Gly Arg Met Val Leu Phe Pro Tyr
 675 680 685
 Gln Ile Pro Ala Gly Leu Leu Ser Thr Phe Ile Gly Ala Pro Tyr Phe
 690 695 700
 Ile Tyr Leu Leu Arg Lys Gln Ser Arg
 705 710

<210> 6890

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 6890

Asn Pro Cys Gly His Leu Tyr Asp Glu Thr Glu Gln Val Met Asn Glu
 1 5 10 15
 Asn Thr Pro Ser Phe Glu Gln Gln Gln Phe Thr Arg Ala Lys Arg Arg
 20 25 30
 Val Ser Ile Arg Arg Leu Leu Asn Arg Asp Lys Thr Pro Leu Ala Ile
 35 40 45
 Leu Leu Ala Ala Ala Val Val Gly Thr Leu Ala Gly Leu Val Gly Val
 50 55 60
 Ala Phe Glu Lys Ala Val Asn Ala Val Leu Asn Trp Arg Ile Gly Thr
 65 70 75 80
 Val Ala Ser Phe Ala Asp Arg Glu Trp Leu Val Trp Val Trp Ala Phe
 85 90 95
 Gly Leu Ser Ala Leu Phe Ala Met Val Gly Tyr Phe Leu Val Arg Lys
 100 105 110
 Phe Ala Pro Glu Ala Gly Gly Ser Gly Ile Pro Glu Ile Glu Gly Ala
 115 120 125
 Leu Glu Glu Leu Arg Pro Val Arg Trp Trp Arg Val Leu Pro Val Lys
 130 135 140
 Phe Ile Gly Gly Met Gly Thr Leu Gly Ala Gly Met Val Leu Gly Arg
 145 150 155 160
 Glu Gly Pro Thr Val Gln Leu Gly Gly Asn Val Gly Arg Met Val Gly
 165 170 175

Asp Leu Phe Arg Met Arg Ser Ala Glu Ala Arg His Thr Leu Leu Ala
 180 185 190
 Thr Gly Ala Ala Ala Gly Leu Ser Ala Ala Phe Asn Ala Pro Leu Ala
 195 200 205
 Gly Ile Leu Phe Ile Ile Glu Glu Met Arg Ala Gln Phe Arg Tyr Asn
 210 215 220
 Leu Ile Ser Ile Lys Ala Val Phe Asn Gly Val Ile Met Ser Ser Ile
 225 230 235 240
 Val Phe Arg Val Phe Asn Gly Glu Gly Ala Val Ile Glu Val Gly Lys
 245 250 255
 Leu Thr Asn Ala Pro Val Ile Leu His Tyr Asp Ala Ala Asp Ala Thr
 260 265 270
 Tyr Pro His
 275

<210> 6891

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 6891

Arg Asn Ala Gly Thr Tyr Leu Arg Tyr Ser Tyr Gly His Pro Ala Ser
 1 5 10 15
 Pro Gly Arg Gly Cys Thr Arg Glu Leu Cys Leu Leu Met Leu Asp Ser
 20 25 30
 Thr Phe Ile Ser Arg Arg Arg Leu Leu Thr Ala Met Ala Leu Ser Pro
 35 40 45
 Leu Leu Leu Lys Met Gly Pro Ala Arg Ala Ala Ile Asp Pro His
 50 55 60
 Arg Ile Val Ala Leu Glu Trp Leu Pro Val Glu Leu Met Met Ala Leu
 65 70 75 80
 Gly Val Thr Pro Tyr Gly Val Ala Asp Ile Pro Asn Tyr Thr Leu Trp
 85 90 95
 Val Asn Glu Pro Lys Leu Pro Asp Ser Val Ile Asp Ile Gly Leu Arg
 100 105 110
 Thr Glu Pro Asn Leu Glu Leu Leu Thr Gln Met Lys Pro Ser Tyr Leu
 115 120 125
 Phe Trp Ser Ala Gly Tyr Gly Pro Ser Glu Glu Thr Met Ala Lys Ile
 130 135 140
 Ala Pro Gly Arg Gly Phe Ser Phe Ser Asp Gly Lys Lys Pro Leu Thr
 145 150 155 160
 Met Ala Lys Asn Ser Ile His Glu Met Ala Gln Phe Leu Asn Arg Glu
 165 170 175
 Ala Glu Ala Lys Lys His Leu Asp Glu Phe Asp Ala Leu Ile Asp Ser
 180 185 190
 Leu Lys Pro Arg Phe Ala His Arg Gly Asp Arg Pro Leu Leu Met Val
 195 200 205
 Thr Leu Leu Asp Ala Arg His Met Leu Val Phe Gly Asn Asn Cys Leu
 210 215 220
 Phe Gln Glu Val Leu Asp Ser Phe Gly Ile Arg Asn Ala Trp Glu Gly
 225 230 235 240
 Glu Met Thr Phe Trp Gly Ser Thr Ala Val Gly Ile Asp Arg Leu Ala
 245 250 255
 Ala Phe Arg Asp Val Asp Val Leu Cys Phe Asp His Gly Asn Glu Arg
 260 265 270
 Glu Met Gln Thr Leu Met Ala Thr Pro Leu Trp Gln Ala Met Pro Phe
 275 280 285
 Val Arg Glu Gln Arg Phe Leu Arg Ala Pro Ala Val Trp Phe Tyr Gly
 290 295 300
 Ala Thr Leu Ser Ala Met His Phe Ala Arg Val Leu Asp Asn Ala Leu
 305 310 315 320

Gly Gly Lys Ala

325

<210> 6892

<211> 311

<212> PRT

<213> *Enterobacter cloacae*

<400> 6892

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Ile Arg Leu Gln Leu Leu Gln Arg Val Cys Met Leu Leu Gly Ser Arg
1      5      10      15
Thr Pro Gly Cys Cys His Gly Asp Leu Pro Leu Leu Thr Ser Leu Trp
      20      25      30
Ala Arg Phe Ala Val Pro Phe Leu Phe Lys Leu Ala Asp Met Gln Asp
      35      40      45
Asn Lys Thr Gln Ser Asp Ser Thr Phe Thr Leu Asn Asn Leu Ser Phe
      50      55      60
Arg Val Pro Gly Arg Thr Leu Leu His Pro Leu Ser Leu Thr Phe Pro
65      70      75      80
Ala Gly Lys Val Thr Gly Leu Ile Gly His Asn Gly Ser Gly Lys Ser
      85      90      95
Thr Leu Leu Lys Met Leu Gly Arg His Gln Pro Pro Ser Glu Gly Asp
      100      105      110
Ile Leu Leu Asp Asp Gln Pro Leu Ala Ser Trp Ser Ser Lys Ala Phe
      115      120      125
Ala Arg Lys Val Ala Tyr Leu Pro Gln Gln Leu Pro Gln Ala Glu Gly
      130      135      140
Met Thr Val Arg Glu Leu Val Ala Ile Gly Arg Tyr Pro Trp His Gly
145      150      155      160
Ala Leu Gly Arg Phe Gly Val Ala Asp Arg Glu Lys Val Glu Glu Ala
      165      170      175
Ile Ala Leu Val Gly Leu Lys Pro Leu Ala His Arg Leu Val Asp Ser
      180      185      190
Leu Ser Gly Gly Glu Arg Gln Arg Ala Trp Ile Ala Met Leu Val Ala
      195      200      205
Gln Asp Ser Arg Cys Leu Leu Leu Asp Glu Pro Thr Ser Ala Leu Asp
      210      215      220
Ile Ala His Gln Val Asp Val Leu Ala Leu Val His Arg Leu Ser Gln
225      230      235      240
Gln Arg Gly Leu Thr Val Ile Ala Val Leu His Asp Ile Asn Met Ala
      245      250      255
Ala Arg Tyr Cys Asp Tyr Leu Val Ala Leu Arg Gly Gly Glu Met Ile
      260      265      270
Ala Gln Gly Thr Pro Ala Glu Leu Met Arg Ser Glu Thr Leu Glu His
      275      280      285
Ile Tyr Gly Ile Pro Met Gly Ile Leu Pro His Pro Ala Gly Ala Ala
      290      295      300
Pro Val Ser Phe Val Tyr
305      310

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<210> 6893

<211> 833

<212> PRT

<213> *Enterobacter cloacae*

<400> 6893

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Ile Ile Ala Gly Gly Met Lys Lys Ile Ser Thr Gly Ala Asp Asn Gly
1      5      10      15
Gly Thr Asp Met Ser Gln Asp Pro Phe Gln Glu Arg Glu Ala Glu Lys
      20      25      30
Tyr Ala Asn Pro Ile Pro Ser Arg Glu Phe Ile Ile Glu His Leu Thr

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[illegible]

Gly Gly Asn Lys Pro Glu Pro Arg Asp Tyr Ala Glu Leu Leu Glu Ser
 530 535 540
 Ile Ser Asp Arg Pro Asp Ala Glu Met Leu Gln Thr Met Leu Leu Arg
 545 550 555 560
 Ser Met Lys Gln Ala Ile Tyr Asp Pro Glu Asn Arg Gly His Phe Gly
 565 570 575
 Leu Ala Leu Gln Ser Tyr Ala His Phe Thr Ser Pro Ile Arg Arg Tyr
 580 585 590
 Pro Asp Leu Ser Leu His Arg Ala Ile Lys Tyr Leu Leu Ala His Glu
 595 600 605
 Gln Gly His Lys Gly Asn Thr Thr Glu Thr Gly Gly Tyr His Tyr Ser
 610 615 620
 Met Glu Glu Met Leu Gln Leu Gly Gln His Cys Ser Met Thr Glu Arg
 625 630 635 640
 Arg Ala Asp Glu Ala Thr Arg Asp Val Ala Asp Trp Leu Lys Cys Asp
 645 650 655
 Phe Met Leu Asp Gln Val Gly Asn Ile Phe Lys Gly Val Ile Ala Ser
 660 665 670
 Val Thr Gly Phe Gly Phe Phe Val Arg Leu Asp Glu Leu Phe Ile Asp
 675 680 685
 Gly Leu Val His Val Ser Ser Leu Asp Asn Asp Tyr Tyr Arg Phe Asp
 690 695 700
 Gln Val Gly Gln Arg Leu Ile Gly Glu Ser Gly Gly Gln Thr Tyr Arg
 705 710 715 720
 Leu Gly Asp Arg Val Glu Val Lys Val Glu Ala Val Asn Met Asp Asp
 725 730 735
 Arg Lys Ile Asp Phe Ser Leu Ile Ser Ser Glu Arg Ala Pro Arg Asn
 740 745 750
 Val Gly Lys Thr Glu Arg Glu Lys Ala Lys Lys Gly Gly Asn Gly Lys
 755 760 765
 Ala Gly Gly Lys Arg Arg Gln Ala Gly Lys Arg Val Asn Phe Glu Pro
 770 775 780
 Asp Ser Ala Phe Arg Gly Glu Lys Lys Gln Lys Pro Lys Ala Ala Lys
 785 790 795 800
 Lys Asp Ala Arg Lys Ala Lys Lys Pro Ser Thr Lys Thr Gln Lys Ile
 805 810 815
 Ala Ala Ala Thr Lys Ala Lys Arg Ala Ala Lys Lys Gln Gln Ala Glu
 820 825 830

<210> 6894

<211> 265

<212> FRT

<213> Enterobacter cloacae

<400> 6894

Phe Pro Leu Thr Leu Thr Leu Ser Pro Thr Gly Glu Gly Lys Tyr Leu
 1 5 10 15
 Leu Arg Glu Pro Ser Met Ser Glu Met Ile Tyr Gly Ile His Ala Val
 20 25 30
 Gln Ala Leu Leu Glu Arg Ala Pro Glu Arg Phe Gln Glu Val Phe Ile
 35 40 45
 Leu Lys Gly Arg Glu Asp Lys Arg Leu Met Pro Leu Ile His Ala Leu
 50 55 60
 Glu Ala Gln Gly Val Val Ile Gln Leu Ala Asn Arg Gln Tyr Leu Asp
 65 70 75 80
 Glu Lys Ser Glu Gly Ala Val His Gln Gly Ile Ile Ala Arg Val Lys
 85 90 95
 Pro Gly Arg Gln Tyr Gln Glu Asn Asp Leu Pro Asp Leu Ile Ala Glu
 100 105 110

Leu Asp Asn Pro Phe Phe Leu Ile Leu Asp Gly Val Thr Asp Pro His
 115 120 125
 Asn Leu Gly Ala Cys Leu Arg Ser Ala Asp Ala Ala Gly Val His Ala
 130 135 140
 Val Ile Val Pro Arg Asp Arg Ser Ala Gln Leu Asn Ala Thr Ala Lys
 145 150 155 160
 Lys Val Ala Cys Gly Ala Ala Glu Asn Val Pro Leu Ile Arg Val Thr
 165 170 175
 Asn Leu Ala Arg Thr Met Arg Leu Leu Gln Glu Glu Asn Ile Trp Ile
 180 185 190
 Val Gly Thr Ala Gly Glu Ala Asp His Thr Leu Tyr Gln Ser Lys Met
 195 200 205
 Thr Gly Arg Met Ala Leu Val Met Gly Ala Glu Gly Glu Gly Met Arg
 210 215 220
 Arg Leu Thr Arg Glu His Cys Asp Glu Leu Ile Ser Ile Pro Met Ala
 225 230 235 240
 Gly Ser Val Ser Ser Leu Asn Val Ser Val Ala Thr Gly Ile Cys Leu
 245 250 255
 Phe Glu Ala Val Arg Gln Arg Gly 260 265

<210> 6895

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 6895

Pro Gln Leu Ala Tyr Phe Arg Val Lys Lys Cys Cys Ile Ser Glu Lys
 1 5 10 15
 Ala Met Val Glu Ser Ile Phe Lys Gln Thr Val Ile Leu Lys Lys Met
 20 25 30
 Gly Asn Asn Val Val Val Leu Gly Thr Gln Trp Gly Asp Glu Gly Lys
 35 40 45
 Gly Lys Ile Val Asp Leu Leu Thr Glu Arg Ala Lys Tyr Val Val Arg
 50 55 60
 Tyr Gln Gly Gly His Asn Ala Gly His Thr Leu Val Ile Asn Gly Glu
 65 70 75 80
 Lys Thr Val Leu His Leu Ile Pro Ser Gly Ile Leu Arg Glu Asn Val
 85 90 95
 Thr Ser Ile Ile Gly Asn Gly Val Val Leu Ser Pro Ala Ala Leu Met
 100 105 110
 Lys Glu Met Lys Gly Leu Glu Asp Arg Gly Ile Pro Val Arg Glu Arg
 115 120 125
 Leu Leu Leu Ser Glu Ala Cys Pro Leu Ile Leu Asp Tyr His Val Ala
 130 135 140
 Leu Asp Val Ala Arg Glu Lys Ala Arg Gly Ala Lys Ala Ile Gly Thr
 145 150 155 160
 Thr Gly Arg Gly Ile Gly Pro Ala Tyr Glu Asp Lys Val Ala Arg Arg
 165 170 175
 Gly Leu Arg Val Gly Asp Leu Phe Asp Lys Ala Thr Phe Ala Glu Lys
 180 185 190
 Leu Lys Glu Val Met Glu Tyr His Asn Phe Gln Leu Val Asn Phe Tyr
 195 200 205
 Lys Ala Glu Ala Val Asp Tyr Gln Lys Val Leu Asp Asp Val Met Ala
 210 215 220
 Ile Ala Asp Ile Leu Thr Gly Met Val Val Asp Val Ser Asp Leu Leu
 225 230 235 240
 Asp Gln Ala Arg Lys Arg Gly Asp Phe Val Met Phe Glu Gly Ala Gln
 245 250 255
 Gly Thr Leu Leu Asp Ile Asp His Gly Thr Tyr Pro Tyr Val Thr Ser
 260 265 270

Ser Asn Thr Thr Ala Gly Gly Val Ala Thr Gly Ser Gly Leu Gly Pro
 275 280 285
 Arg Tyr Val Asp Tyr Val Leu Gly Ile Ile Lys Ala Tyr Ser Thr Arg
 290 295 300
 Val Gly Ala Gly Pro Phe Pro Thr Glu Leu Phe Asp Glu Thr Gly Glu
 305 310 315 320
 Phe Leu Cys Lys Gln Gly Asn Glu Phe Gly Ala Thr Thr Gly Arg Arg
 325 330 335
 Arg Arg Thr Gly Trp Leu Asp Ala Val Ala Val Arg Arg Ala Val Gln
 340 345 350
 Ile Asn Ser Leu Ser Gly Phe Cys Leu Thr Lys Leu Asp Val Leu Asp
 355 360 365
 Gly Leu Lys Glu Val Lys Ile Cys Val Gly Tyr Arg Met Pro Asp Gly
 370 375 380
 Arg Glu Val Thr Thr Thr Pro Leu Ala Ala Asp Asp Trp Glu Gly Ile
 385 390 395 400
 Glu Pro Ile Tyr Glu Thr Met Pro Gly Trp Ser Glu Thr Thr Phe Gly
 405 410 415
 Val Lys Glu Arg Ser Gly Leu Pro Lys Ala Ala Leu Asp Tyr Ile Lys
 420 425 430
 Arg Ile Glu Glu Leu Thr Glu Val Pro Ile Asp Ile Ile Ser Thr Gly
 435 440 445
 Pro Asp Arg Thr Glu Thr Met Ile Leu Arg Asp Pro Phe Asp Ala
 450 455 460

<210> 6896

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6896

Leu Ser Gly Trp Phe Ile Ile Ile Asn Glu Tyr Leu Cys Gly Leu Thr
 1 5 10 15
 Ala Phe Ser Leu Phe Pro Glu Val Asp Val Gln Leu Thr Ser Phe Thr
 20 25 30
 Asp Tyr Gly Leu Arg Ala Leu Ile Tyr Met Ala Ser Leu Pro Asp Gly
 35 40 45
 Lys Met Thr Ser Ile Ser Glu Val Thr Glu Val Tyr Gly Val Ser Arg
 50 55 60
 Asn His Met Val Lys Ile Ile Asn Gln Leu Ser Arg Ala Gly Tyr Val
 65 70 75 80
 Ala Ala Val Arg Gly Lys Asn Gly Gly Ile Arg Leu Gly Lys Pro Ala
 85 90 95
 Gln Ser Ile Arg Ile Gly Asp Val Val Arg Glu Leu Glu Pro Leu Ser
 100 105 110
 Leu Val Asn Cys Ser Ser Ala Phe Cys His Ile Thr Pro Ala Cys Arg
 115 120 125
 Leu Lys Gln Ala Leu Ser Lys Ala Val Gln Ser Phe Leu Lys Glu Leu
 130 135 140
 Asp Asn Tyr Thr Leu Ala Asp Leu Val Glu Glu Asn Gln Pro Leu Tyr
 145 150 155 160
 Lys Leu Leu Leu Val Glu
 165

<210> 6897

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 6897

Pro Pro Ser His Ala Ala Cys Met Pro Ser Val His Thr Tyr Leu Tyr

Lys Leu Arg Lys Pro Gln Glu Ala Gln Gly Arg Glu Ile Ala Arg Gln
 500 505 510
 Leu Phe Leu Leu Gly Ala Gly Ser Gln Met Leu Arg His Ala Thr Pro
 515 520 525
 Pro Val Ala Gln Ala Trp Cys Arg Met Met Leu Asp Thr Arg Gly Gly
 530 535 540
 Thr Leu Met Ser Glu Gln Val Gln Asn Asp Leu Leu Leu Arg Ala Thr
 545 550 555 560
 Gly Arg Val Gly
 565

<210> 6898

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 6898

Pro Ala Arg Ile Ser Ser Ala Arg Arg Glu Asp Gly Arg Leu Gly Pro
 5 10 15
 Met Leu Tyr Pro Arg Ala Trp Arg Arg Met Ile Ala Thr Met Ser Gln
 20 25 30
 Leu Pro Asp Asn Ile Leu Arg Arg Phe Gly Gly Gly Leu Val Val Ala
 35 40 45
 Gly Ile Val Ile Tyr Tyr Met Leu Arg Lys Thr Ile Gly
 50 55 60

<210> 6899

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 6899

Arg Arg Tyr Ile Thr Gln Tyr Gln Pro Val Lys Asn Ala Glu Gly Gln
 5 10 15
 Val Ile Gly Ile Ile Phe Val Gly Val Asp Ile Thr His Ser Trp Asn
 20 25 30
 Val Met Arg Glu Lys Ile Leu Asn Arg Arg Leu Gly Lys Ser Gly His
 35 40 45
 Phe Phe Val Leu Asp Arg Ser Ser Gly Lys Thr Arg Gly Gln Tyr Leu
 50 55 60
 Phe His Ala Ser Glu Glu Gly Lys Leu Pro Asn Trp Asp Thr Ala Thr
 65 70 75 80
 Gln Gln Gln Leu Leu Ser Asp Lys Ala Gly Thr Leu Glu Arg Val Ser
 85 90 95
 Ala Asp Gly Arg Thr Leu Lys Val Ala Tyr Thr Pro Leu Pro Gly Trp
 100 105 110
 Asn Trp Thr Ile Val Gly Glu Val Asp Lys Ala Val Leu Leu Ser Ser
 115 120 125
 Val Thr Thr Leu Arg Asp Arg Phe Leu Met Ala Gly Val Val Leu Ser
 130 135 140
 Ala Leu Phe Ala Gly Leu Phe Val Ile Leu Ile Arg Arg Met Leu Thr
 145 150 155 160
 Arg Pro Leu Arg Ala Val Ile Ala Leu Ala Arg Gln Tyr Ala Ala Gly
 165 170 175
 Asp Leu Arg Ala Ser Leu Pro Val Thr Arg Gln Asp Glu Val Gly Gln
 180 185 190
 Leu Ile Asp Ala Ile Asn Gly Ile Gly Gly Gly Leu Gln Lys Ile Val
 195 200 205
 Leu Gln Val Arg Glu Ala Ala Ser Glu Ile His Leu Gly Thr Asn Ala
 210 215 220
 Leu Ala Ser Asp Thr Gly Glu Ile Ser Glu Gln Ile Asn Lys Gln Ala

225 230 235 240
 Ser Ser Val Glu Thr Ser Ala Ser Met Glu Gln Leu Ala Ala Thr
 245 250 255
 Val Gln Gln Asn Ala Ala Asn Met Glu Gln Thr Gln Gln Leu Val Gly
 260 265 270
 Glu Thr Ser Arg Ala Val His Gln Gly Gly Glu Thr Val Thr His Ala
 275 280 285
 Val Ser Thr Met Asp Asp Ile Arg Asp Ala Ser Lys Arg Ile Glu Asp
 290 295 300
 Ile Thr Arg Val Ile Glu Ser Ile Ala Phe Gln Thr Asn Ile Leu Ala
 305 310 315 320
 Leu Asn Ala Ala Val Glu Ala Ala Arg Ala Gly Glu His Gly Lys Gly
 325 330 335
 Phe Ala Val Val Ala Gln Glu Val Arg Ala Leu Ala Ala Arg Ser Ala
 340 345 350
 Asn Ala Val Lys Glu Ile Glu Gln Leu Ile Gly Asp Thr Leu Asn Lys
 355 360 365
 Val Ser Glu Gly His Ala Leu Ser Glu Gln Thr Arg Leu Ala Met Asp
 370 375 380
 Ala Ile Ile Val His Ile Asp Asn Ile Ser Gln Leu Val Thr Glu Ile
 385 390 395 400
 Asn His Ala Ser Arg Glu Gln Ser Ala Gly Ile Gly Gln Val Asn Leu
 405 410 415
 Ala Met Thr His Ile Gly Glu Ala Ser His Ile Asn Ala Asp Arg Ile
 420 425 430
 Ser Arg Ser Glu Gln Thr Ala Gln Thr Leu Arg Glu Lys Gly Ser His
 435 440 445
 Leu Thr Arg Leu Val Ser Leu Phe Gln Leu Lys Ala
 450 455 460

<210> 6900

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 6900

Gly Gln Thr Lys Val Ala Pro Val Phe Arg Ile Val Asn Arg Leu Leu
 1 5 10 15
 His Gly Ala Gln Gln His Gly Leu Gln His Phe Arg Val Arg Thr Ile
 20 25 30
 Ala Asp Gly Phe Gln Gln Leu Gly Val Ile Ala Trp Leu Arg Leu Ile
 35 40 45
 Thr Ala Arg Gln Leu Gln Ala Glu Phe Ser Gln His Gly Ala Glu Arg
 50 55 60
 Gly Tyr Gly Phe Arg Gly Trp Leu Val Val Asn Thr Glu Gln Arg Arg
 65 70 75 80
 Leu Phe Gly Phe Leu Asn Glu Thr Cys Arg Arg Asp Val Cys Gln Asp
 85 90 95
 His Thr Leu Phe Asn Gln Leu Val Arg Ile Val Thr Leu Gly Leu Leu
 100 105 110
 Asp Thr Leu Asp Thr Thr Leu Ser Val Glu Asp Lys Leu Arg Phe Phe
 115 120 125
 Ala Leu Lys Gly Asp Pro Ala Ala Leu Phe Ala Arg Leu Ile Gln Arg
 130 135 140
 Phe Val Glu Val Val Gln Leu Phe Asp Val Phe Asp Gln Arg Arg Val
 145 150 155 160
 Leu Phe Ala Gln Ile Leu Ile Ala Leu Gln His Met Pro Asp Leu Gly
 165 170 175
 Ile Gly Gln Ala Arg Met Gly Thr His His Cys Phe Val Glu Leu Ile
 180 185 190
 Ala Arg Gln Thr Ser Leu Ala Gly Asp Gly His Phe Ala Asp His Thr

195 200 205
 Gln Ala Val His Leu Arg Val Glu Gly Thr Gln Ala Val Gly Glu His
 210 215 220
 Phe Trp Gln His Arg Tyr Asn Leu Arg Arg Glu Val Asp Arg Cys Thr
 225 230 235 240
 Ala Ala Ala Arg Phe Val Ile Gln Arg Arg Val Trp Thr Tyr Val Val
 245 250 255
 Ala His Ile Arg Asp Ser His Pro Gln Thr Pro Ala Thr Thr Phe
 260 265 270
 Phe Leu Thr Val His Gly Ile Ile Glu Val Thr Gly Val Phe Thr Ile
 275 280 285
 Asn Gly Asp Gln Arg Gln Ile Ala Gln Ile His Ala Ala Cys Phe Gly
 290 295 300
 Leu Phe Arg His Phe Phe Thr Gln Val Phe Asp Leu Val Phe Asn Arg
 305 310 315 320
 Phe Arg Pro Asp Val Arg Asn Phe Met Gly Ala Gln Arg His Ile Asp
 325 330 335
 Gly His Ala Gly Ala His Val Ile Ala Gln His Phe Asn Asp Phe Thr
 340 345 350
 His Arg Phe Cys Ala Thr Ser Trp Ala Leu Gly Glu Phe Asn His His
 355 360 365
 His Lys Ala His Ala Cys Ala His Tyr Leu Phe Arg Arg Asp Glu Asn
 370 375 380
 Val Glu Ala Gln Thr Ala Val Val Arg His His Lys Ala Tyr Ala Arg
 385 390 395 400
 Ile Gly Lys Val Thr Ala Asn Asp Leu Ala Gly Phe Arg His Gln His
 405 410 415
 Ala Asp His Ala Arg Phe Ala Ala Ala Phe Thr Val Cys Thr Gln Arg
 420 425 430
 Leu Arg Gln Asp Leu Val Ala Val Asn Thr His Leu His Leu Phe Gly
 435 440 445

<210> 6901

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 6901

Asp Phe Cys Arg Arg Ser Ala Ala Asp Gly His Asp Lys Ala Pro Pro
 1 5 10 15
 Arg Ala His Gly Ala Ser Val Arg Gly Cys Gln Ala His Ser Gln Ser
 20 25 30
 Ala Ser Ala Arg Pro Ser Ser Glu Phe Ala Gly His Leu His Pro Leu
 35 40 45
 Arg Pro Ala Ala Ser Arg Lys His Gln Arg Thr Gln Pro His Cys Trp
 50 55 60
 His Leu Asn Gly Tyr Arg Ala Cys Pro Ser Asp Ala Gln Gly Ala Arg
 65 70 75 80
 His Cys Val Ala Arg Arg Val Arg Asn Ala Gly Gln Lys Ser Arg Thr
 85 90 95
 Thr Arg Pro Ser Pro Ala Arg Ala Pro Asp Ala His Arg Ser Ala Ala
 100 105 110
 Arg Arg Lys Thr Ile Cys Ala Pro Pro Ala Gly Asn Cys His His Cys
 115 120 125
 Ile Ser Leu Leu Trp Trp Tyr Tyr
 130 135

<210> 6902

<211> 437

<212> PRT

<213> *Enterobacter cloacae*

<400> 6902

```

Ile Ile Tyr Ser Tyr Pro Val Phe Val Arg Ile Val Met Gln Gln Asp
1      5      10      15
Ala His Lys Arg Ala Leu Ile Ala Gly Ser Ile Gly Asn Phe Ile Glu
      20      25      30
Trp Tyr Glu Phe Ala Val Tyr Gly Phe Leu Ala Thr Val Ile Ala Arg
      35      40      45
Asn Phe Phe Gln Leu Glu Gly Glu Ala Glu Leu Thr Ser Leu Ile Leu
      50      55      60
Thr Trp Ala Ser Phe Ala Ile Ala Phe Phe Arg Pro Leu Gly Ala
      65      70      75      80
Val Val Phe Gly Arg Ile Gly Asp Arg Ile Gly Arg Lys Pro Thr Leu
      85      90      95
Ile Ile Val Leu Val Leu Met Thr Leu Ala Thr Ala Ala Ile Gly Ile
      100      105      110
Val Pro Val Tyr Ala Ser Ile Gly Ile Ala Ala Pro Leu Ile Val Thr
      115      120      125
Leu Leu Arg Ile Leu Gln Gly Leu Phe Ala Gly Gly Glu Tyr Gly Gly
      130      135      140
Ala Val Ser Leu Met Thr Glu Phe Ala Pro Arg Gly Lys Arg Gly Leu
      145      150      155      160
Tyr Gly Ala Trp Gln Ser Phe Thr Val Ala Leu Gly Leu Leu Ala Gly
      165      170      175
Ala Gly Ile Val Ala Leu Leu Ser Ala Leu Leu Ser Pro Glu Ala Leu
      180      185      190
His Ala Trp Gly Trp Arg Ile Pro Phe Phe Leu Ala Leu Pro Met Gly
      195      200      205
Ala Val Ala Leu Trp Leu Arg Val Ser Met Glu Glu Thr Pro Ser Phe
      210      215      220
Val Gln Gln Arg Glu Lys Pro Val Val Thr Gln Ala Thr Thr Ala Ala
      225      230      235      240
Thr Phe Lys Thr Ile Leu Met Gly Ile Gly Arg Val Met Val Trp Ser
      245      250      255
Ala Ala Gly Tyr Thr Tyr Leu Val Ile Met Pro Thr Tyr Leu Gln Ser
      260      265      270
Ala Leu His Thr Gly Phe Asn Gln Ala Leu Leu Ile Ala Val Ile Ser
      275      280      285
Asn Ile Gly Phe Ala Leu Thr Ile Ile Pro Ser Gly Met Leu Ser Asp
      290      295      300
Arg Ile Gly Arg Arg Thr Val Met Ile Ile Ser Thr Val Leu Leu Leu
      305      310      315      320
Ile Leu Ala Leu Pro Leu Leu Lys Ile Leu Gln Ala Glu Thr Ser Thr
      325      330      335
Leu Ala Val Lys Ala Ile Val Val Leu Ile Ala Gly Gly Leu Val Gly
      340      345      350
Met Leu Ala Gly Pro Gly Pro Ala Met Leu Ser Glu Met Phe Pro Thr
      355      360      365
Arg Val Arg Tyr Thr Gly Leu Gly Leu Ala Tyr Ser Leu Ser Asn Ala
      370      375      380
Ile Phe Ser Gly Cys Thr Gly Leu Ile Ile Thr Gly Leu Ile Lys Glu
      385      390      395      400
Thr Gly Asn Leu Asp Ile Pro Ala Tyr Tyr Val Met Ala Thr Ala Val
      405      410      415
Val Ser Ile Phe Ala Leu Met Thr Leu Arg Lys Asp Asp His Leu Arg
      420      425      430
Ser Leu Glu Glu
      435

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<210> 6903

<211> 244

<212> PRT

<213> *Enterobacter cloacae*

<400> 6903

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Thr Ser Asp Arg His Ala Arg Arg Tyr Met Ser Gly Ser Phe Phe Leu
1      5      10      15
Ser Gly Val Ser Ala Met Ala Glu Gly Pro Leu Asn Glu Ser Glu Met
20      25      30
Ala Trp Leu Glu Glu Thr Leu Ile Ser Tyr Gly His Asp Asp Ala Ser
35      40      45
Val Ile Asp Val Ser Glu Leu Asp Gly Met Leu Thr Ala Val Leu Ser
50      55      60
Gly Pro Val Val Val Glu Pro Asp Thr Trp Leu Val Ala Val Trp Gly
65      70      75      80
Gly Glu Lys Tyr Ile Pro Arg Trp Lys Asn Asp Arg Glu Met Asn Arg
85      90      95
Phe Ile Asp Leu Cys Phe Lys His Met Asn Asp Ile Ala Glu Arg Leu
100     105     110
Ser Glu Tyr Pro Asp Gln Phe Glu Pro Leu Phe Gly Tyr Asn Asp Val
115     120     125
Asp Gly Gln Ser Tyr Thr Val Val Glu Glu Trp Cys Tyr Gly Tyr Met
130     135     140
Arg Gly Val Ala Leu Thr Asp Trp Ser Ser Leu Pro Glu Ala Leu Glu
145     150     155     160
Ala Asp Leu Ala Val Ile Ala Leu His Gly Thr Glu Glu Asn Ser Glu
165     170     175
Lys Leu Asp Ala Leu Thr Glu Glu Glu Tyr Met Ala Ser Ile Glu Ser
180     185     190
Ile Gln Pro Ala Ala Leu Arg Leu Tyr Asp Tyr Trp Val Ala Asn Pro
195     200     205
Gln Gln Pro Glu Ala Lys Lys Pro Ile Val Asn Gly Ser Lys Leu Gly
210     215     220
Arg Asn Asp Pro Cys Pro Cys Gly Ser Gly Lys Lys Phe Lys Ser Cys
225     230     235     240
Cys Leu His

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<210> 6904

<211> 88

<212> PRT

<213> *Enterobacter cloacae*

<400> 6904

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Ser Ala Phe Tyr Leu Arg Glu Val Thr Met Ser Ile His Gly His Asp
1      5      10      15
Val Leu Asn Met Met Ile Glu Ser Gly Glu Arg Tyr Thr Glu Glu Ser
20      25      30
Leu Val Glu Ala Ile His Ala Arg Phe Gly Glu Ala Ala Arg Phe His
35      40      45
Thr Cys Ser Ala Ser Glu Met Thr Ala Ala Glu Leu Val Ala Phe Leu
50      55      60
Ala Ala Arg Gly Lys Phe Ile Pro Ala Ala Asp Gly Phe Ser Thr His
65      70      75      80
Glu Ser Lys Ile Cys Arg His
85

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<210> 6905

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6905

Asn Phe His Leu Arg Asp Val Met Ser Leu Pro Pro Leu Tyr Ala Leu
 1 5 10 15
 Arg Ala Phe Glu Val Ala Ala Arg Leu Asn Ser Phe Ser Lys Ala Ala
 20 25 30
 Glu Thr Leu Asn Ile Thr Pro Gly Ala Val Ser Arg His Val Arg Thr
 35 40 45
 Leu Glu Leu Trp Phe Asp Cys Glu Leu Phe Lys Arg Gln Gly Pro Arg
 50 55 60
 Val Glu Val Thr Glu Ala Gly Arg Val Leu Ala Gly Gln Leu Asn Glu
 65 70 75 80
 Ser Phe Thr Ser Ile Glu Trp Ala Cys Arg Ala Phe Arg Ser Glu Asn
 85 90 95
 His Leu Leu Arg Leu Lys Ala Pro Ser Thr Leu Thr Met Arg Trp Leu
 100 105 110
 Leu Asp Val Leu Arg Ser Phe Arg Asn Asn His Ala Lys Pro Gln Val
 115 120 125
 Glu Ile Ala Ser Val Trp Met Asp Ile Asp Thr Val Asp Phe Asn Leu
 130 135 140
 Glu Pro Tyr Asp Cys Ala Ile Leu Leu Gly Asn Gly Arg Phe Gly Asp
 145 150 155 160
 Thr Thr Glu Ser Gln Leu Leu Phe His Glu Trp Leu Ile Pro Val Cys
 165 170 175
 Thr Pro Ser Leu Ile Glu Pro Ala Arg Gln Arg Leu Pro Gln Cys Asp
 180 185 190
 Leu Ile His Pro Ser Pro Asp Arg Arg Asp Trp Arg Arg Trp Leu Arg
 195 200 205
 Arg Thr Gly Leu Phe Pro Gly Leu Asp Met Ser Ser Gly Met Val Phe
 210 215 220
 Asp Thr Leu Glu Gln Gly Ser Ile Ala Ala Met Asn Gly His Gly Ile
 225 230 235 240
 Ala Ile Ala Asp Leu His Leu Thr Leu Asp Ala Leu Lys Ser Gly Leu
 245 250 255
 Leu Ala Leu Ala Val Gln Gly Ser Tyr Cys Asp Arg Gly Trp Leu Leu
 260 265 270
 Pro Arg Leu Ala Lys Lys Phe Thr Gln Lys Arg Glu His Ser Ala Ser
 275 280 285
 Ser Gly Leu Ala Ala Lys Pro Tyr Pro Gly Arg Ser Gly Ala Gly Tyr
 290 295 300
 Arg Leu Ser Gly Ile Arg
 305 310

<210> 6906

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 6906

Thr Met Lys Arg Ile Ile Ile Ala Gly Thr Ile Leu Leu Leu Ala Gly
 1 5 10 15
 Cys Ser Ile Asn Arg Gln Ala Glu Ile Ser Ser Thr Asp Ala Pro Asn
 20 25 30
 Gly Ile Val Arg Leu Asp Tyr Gly Gln Ala Met Leu Gln Asn Ala Trp
 35 40 45
 Ser Asp Glu Tyr Val Asn Asn Gly Thr Ala Thr Lys Ala Cys Gln His
 50 55 60
 Met Gly Tyr Ala Thr Ala Ser Ala Tyr Gly Gln Pro Ile Lys Thr Cys
 65 70 75 80
 Thr Leu Ile Ser Gly Ser Leu Cys Leu Asn Glu Ser Val Thr Ile Gln

Tyr Lys Cys Gln Gly Tyr Ala Val Thr Ser Ser Ser Gln Asn Pro Trp
 100 105 110
 Tyr

<210> 6907

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 6907

Ser Val Arg Asn Asn Ala Met Thr Ser Asp Gly Phe Ser Leu Lys Arg
 1 5 10 15
 Cys Ile Leu Asp Ala Ile Phe Ser Gly Met Ile Ala Leu Ile Phe
 20 25 30
 Gly Pro Ile Ala Gly Val Ile Leu Asp Gly Tyr Ser Phe Thr Phe Gly
 35 40 45
 Gly Gln Arg Leu Ala Trp Ile Val Gly Thr Val Met Val Gly Arg Phe
 50 55 60
 Leu Leu Ser Ala Phe Ser Ala Thr Ala Ala Gly Arg Arg Leu Gln Thr
 65 70 75 80
 Arg Phe Glu Ser Asp Asn Ala Gly Val Tyr Val Arg Pro Pro Ala Tyr
 85 90 95
 Lys Ser Arg Met Arg Trp Ile Ile Pro Leu Ile Val Thr Leu Ala Ile
 100 105 110
 Cys Phe Pro Phe Val Ala Thr Lys Tyr Leu Leu Thr Val Ala Ile Leu
 115 120 125
 Gly Leu Ile Tyr Val Leu Leu Gly Leu Gly Leu Asn Ile Val Val Gly
 130 135 140
 Leu Ala Gly Leu Leu Asp Leu Gly Tyr Val Ala Phe Tyr Ala Ile Gly
 145 150 155 160
 Ala Tyr Gly Leu Ala Leu Gly Tyr Gln Tyr Leu Gly Leu Gly Phe Trp
 165 170 175
 Ser Met Leu Pro Leu Ala Ala Leu Met Ala Ala Gly Ala Gly Ala Leu
 180 185 190
 Leu Gly Phe Pro Val Leu Arg Met His Gly Asp Tyr Leu Ala Ile Val
 195 200 205
 Thr Leu Gly Phe Gly Glu Ile Ile Arg Leu Val Leu Asn Asn Trp Leu
 210 215 220
 Thr Phe Thr Gly Gly Pro Asn Gly Val Ser Ala Pro Ala Pro Thr Phe
 225 230 235 240
 Phe Gly Leu Glu Phe Gly Arg Arg Ala Lys Glu Gly Gly Val Pro Phe
 245 250 255
 His Glu Phe Phe Gly Leu Thr Tyr Asn Pro Asn Met Lys Phe Ile Phe
 260 265 270
 Ile Tyr Ala Val Leu Phe Leu Val Val Met Leu Val Leu Tyr Ile Lys
 275 280 285
 His Arg Leu Thr Arg Met Pro Ile Gly Arg Ala Trp Glu Ala Leu Arg
 290 295 300
 Glu Asp Glu Ile Ala Cys Arg Ser Met Gly Leu Asn His Val Leu Val
 305 310 315 320
 Lys Leu Ser Ala Phe Thr Leu Gly Ala Ser Thr Ala Gly Ile Ala Gly
 325 330 335
 Val Phe Phe Ala Thr Tyr Gln Gly Phe Val Asn Pro Thr Ser Phe Thr
 340 345 350
 Phe Phe Glu Ser Ala Leu Ile Leu Ala Ile Val Val Leu Gly Gly Met
 355 360 365
 Gly Ser Thr Val Gly Val Val Leu Ala Ala Phe Val Leu Thr Val Thr
 370 375 380
 Pro Glu Leu Leu Arg Ser Phe Ala Glu Tyr Arg Val Leu Leu Phe Gly

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<210> 6908
<211> 429
<212> PRT
<213> Enterobacter cloacae
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[illegible]

385 390 395 400
 Met Leu Cys Val Val Phe Gly Cys Gly Val Ala Ile Ile Leu Val Gln
 405 410 415
 Ile Leu Ile Ala Ala Gly Met Leu Pro Glu Val Gly
 420 425

<210> 6909

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6909

Arg Ser Ala Ile Thr Gly Arg Asn Leu Leu Ser Ala Gly Arg Ser Asp
 1 5 10 15
 Cys Arg Arg Asn Pro Leu Phe Arg Cys Ala Thr Met Ser Thr Phe Phe
 20 25 30
 Leu Gln Gln Leu Ile Asn Gly Leu Thr Leu Gly Ser Val Tyr Gly Leu
 35 40 45
 Ile Ala Ile Gly Tyr Thr Met Val Tyr Gly Ile Ile Gly Met Ile Asn
 50 55 60
 Phe Ala His Gly Glu Val Tyr Met Ile Ser Ala Tyr Leu Ser Ala Ile
 65 70 75 80
 Gly Leu Ala Leu Leu Ala Phe Phe Gly Leu His Ser Phe Pro Leu Leu
 85 90 95
 Ile Leu Gly Thr Leu Val Phe Thr Ile Val Val Thr Gly Val Tyr Gly
 100 105 110
 Trp Thr Ile Glu Arg Ile Ala Tyr Lys Pro Leu Arg Asn Ser Thr Arg
 115 120 125
 Leu Ala Pro Leu Ile Ser Ala Ile Gly Met Ser Leu Ile Leu Gln Asn
 130 135 140
 Tyr Val Gln Leu Ser Gln Gly Pro Arg Gln Gln Gly Val Pro Thr Met
 145 150 155 160
 Leu Asp Gly Val Leu Arg Phe His Leu Gly Glu Gly Phe Val Gln Ile
 165 170 175
 Thr Tyr Thr Lys Val Phe Ile Leu Ile Ala Ser Phe Ala Gly Met Leu
 180 185 190
 Val Leu Thr Trp Ile Ile Asn Arg Thr Arg Leu Gly Arg Met Cys Arg
 195 200 205
 Ala Val Gln Gln Asp Arg Lys Met Ala Ser Ile Leu Gly Ile Asn Thr
 210 215 220
 Asp Arg Ile Ile Ser Leu Val Phe Val Ile Gly Ala Ala Met Ala Gly
 225 230 235 240
 Leu Ala Gly Val Leu Ile Thr Met Asn Tyr Gly Thr Phe Asp Phe Tyr
 245 250 255
 Val Gly Phe Val Ile Gly Ile Lys Ala Phe Thr Ala Ala Glu Leu Gly
 260 265 270
 Gly Ile Gly Ser Leu Pro Gly Ala Met Leu Gly Gly Leu Ile Leu Gly
 275 280 285
 Val Ala Glu Ala Gln Phe Ser Gly Met Val Asn Ser Asp Tyr Lys Asp
 290 295 300
 Val Phe Ser Phe Gly Leu Leu Val Leu Ile Leu Ile Phe Arg Pro Gln
 305 310 315 320
 Gly Leu Leu Gly Arg Pro Val Val Ala Lys Val
 325 330

<210> 6910

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 6910

Lys Ser Tyr Cys Arg Val Ser Gly His Arg Lys Arg Gly Lys Ser
 1 5 10 15
 Val Ser Glu Pro Met Leu Gln Phe Gln Asp Val Asp Val Phe Tyr Gly
 20 25 30
 Val Ile Gln Ala Leu Lys Gln Val Ser Leu Glu Val Asn Lys Gly Glu
 35 40 45
 Thr Val Ala Leu Ile Gly Ala Asn Gly Ala Gly Lys Ser Thr Leu Leu
 50 55 60
 Met Ser Val Phe Gly Gln Pro Arg Ile Arg Asn Gly Gln Ile Leu Phe
 65 70 75 80
 Cys Gly Glu Asp Ile Ser His Lys Ser Thr His Tyr Val Ala Thr Gly
 85 90 95
 Gly Ile Ala Gln Ala Pro Glu Gly Arg Arg Ile Phe Pro Asp Met Ser
 100 105 110
 Val Glu Glu Asn Leu Leu Met Gly Thr Ile Pro Val Gly Asn Gln His
 115 120 125
 Ala Ala Glu Asp Met Gln Ser Met Phe Asp Leu Phe Pro Arg Leu Lys
 130 135 140
 Glu Arg Arg Asn Gln Arg Ala Met Thr Leu Ser Gly Gly Glu Gln Gln
 145 150 155 160
 Met Leu Ala Ile Ala Arg Ala Leu Met Ser Arg Pro Lys Leu Leu Leu
 165 170 175
 Leu Asp Glu Pro Ser Leu Gly Leu Ala Pro Ile Val Val Lys Gln Ile
 180 185 190
 Phe Gln Thr Leu Arg Glu Leu Ala Arg Asn Gly Met Thr Ile Phe Leu
 195 200 205
 Val Glu Gln Asn Ala His His Ala Leu Lys Leu Ser Asp Arg Gly Tyr
 210 215 220
 Val Met Val Asn Gly Gln Ile Arg Leu Ser Gly Ser Gly Glu Ala Leu
 225 230 235 240
 Leu Lys Asp Pro Glu Val Arg Lys Ala Tyr Leu Gly Gly Val 255
 245 250

<210> 6911

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 6911

Ile Thr Asn Tyr Ser Val Ala His Arg Glu Pro Glu Leu Ile Asn Arg
 1 5 10 15
 Ser Cys Thr Met Leu Lys Thr Glu Met Ile Asp Lys Leu Asn Ala Gln
 20 25 30
 Met Asn Leu Glu Leu Phe Ser Ser Leu Leu Tyr Gln Gln Met Ser Ala
 35 40 45
 Trp Cys Ser Tyr His Ser Phe Glu Gly Ala Ala Ala Phe Leu Arg Arg
 50 55 60
 His Ala Gln Glu Glu Met Thr His Met Gln Arg Leu Phe Asp Tyr Leu
 65 70 75 80
 Thr Asp Thr Gly Ser Leu Pro Arg Ile Asp Asn Val Ala Ser Pro Phe
 85 90 95
 Ala Glu Tyr Gly Ser Leu Asp Glu Leu Phe Arg Ala Thr Tyr Glu His
 100 105 110
 Glu Gln Leu Ile Thr Gln Lys Ile Asn Glu Leu Ala His Ala Ala Met
 115 120 125
 Thr Ser Gln Asp Tyr Pro Thr Phe Asn Phe Leu Gln Trp Tyr Val Ala
 130 135 140
 Glu Gln His Glu Glu Glu Lys Leu Phe Lys Ser Val Leu Asp Lys Leu
 145 150 155 160
 Ser Leu Ala Gly Lys Ser Gly Glu Gly Leu Tyr Phe Ile Asp Lys Glu
 165 170 175

Leu Ser Thr Leu Asp Thr Gln Asn
180 185

<210> 6912

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 6912

Cys Ser Ala Arg Phe Ala Val Arg Gly Ile Leu Ala Val Leu Ser Met
1 5 10 15
Arg Leu Leu Leu Lys Cys Ile Leu Phe Ser Leu Leu Phe Leu Asp Leu
20 25 30
Arg Cys His Gln Ala Phe Gly Phe Ile Pro Gly Ala Lys Thr Ser Leu
35 40 45
Leu Arg Asn Ile Ile Met Ser Leu Lys Phe Thr Lys Thr Pro Leu Ser
50 55 60
Leu Val Leu Ala Gly Cys Leu Val Thr Ala Phe Ser Ala Gln Ala Asp
65 70 75 80
Ile Val Ile Gly Val Ala Gly Pro Phe Thr Gly Pro Asn Ala Thr Tyr
85 90 95
Gly Asp Gln Tyr Trp His Gly Ala Thr Gln Ala Ala Glu Asp Ile Asn
100 105 110
Ala Ala Gly Gly Ile Asn Gly Glu Lys Ile Lys Leu Val Gln Gly Asp
115 120 125
Asp Ala Cys Glu Pro Lys Gln Ala Val Ala Val Ala Asn Arg Leu Val
130 135 140
Asp Gln Asp Lys Val Lys Ala Val Val Gly His Phe Cys Ser Ser Ser
145 150 155 160
Thr Met Pro Ala Ser Glu Val Tyr Ser Asp Ala Gly Ile Leu Ser Ile
165 170 175
Thr Pro Gly Ser Thr Asn Pro Leu Ile Thr Glu Arg Gly Met Ser Asp
180 185 190
Ile Phe Arg Met Cys Gly Arg Asp Asp Gln Gln Gly Gln Val Ala Ser
195 200 205
Asp Phe Ile Leu Asp Lys Leu Lys Ala Lys Arg Val Val Ile Ile His
210 215 220
Asp Lys Asp Thr Tyr Gly Gln Gly Leu Ala Asp Ala Thr Lys Ala Ala
225 230 235 240
Leu Ala Lys Arg Gly Val Lys Glu Val Met Tyr Glu Gly Leu Ser Arg
245 250 255
Gly Glu Lys Asp Phe Asn Ala Leu Val Thr Lys Ile Gly Ala Gln Lys
260 265 270
Pro Asp Val Val Phe Phe Gly Gly Cys His Pro Glu Ala Gly Pro Leu
275 280 285
Val Arg Gln Met Arg Glu Gln Gly Val Gln Ala Lys Phe Phe Ser Gly
290 295 300
Asp Cys Ile Val Asn Glu Glu Met Val Thr Ala Ala Gly Gly Ala Gln
305 310 315 320
Tyr Thr Asn Gly Ile Tyr Met Thr Phe Gly Lys Asp Pro Arg Leu Ile
325 330 335
Pro Asp Gly Lys Ala Val Ile Glu Lys Phe Arg Thr Gly Lys Phe Glu
340 345 350
Pro Glu Gly Tyr Thr Leu Tyr Ala Tyr Ala Ser Val Gln Ala Ile Ala
355 360 365
Ala Ala Phe Lys Ala Thr Gln Gly Thr Asp Ser Ala Lys Ala Ser Glu
370 375 380
Trp Leu Lys Ala Asn Pro Val Asp Thr Val Met Gly Lys Lys Ala Trp
385 390 395 400
Asp Ser Lys Gly Asp Leu Lys Val Ser Asp Tyr Val Val Tyr Gln Trp
405 410 415

Asp Asp Lys Gly Lys Tyr Lys Glu Val Pro
420 425

<210> 6913
<211> 296
<212> PRT
<213> Enterobacter cloacae

<400> 6913
Arg Ser Gly Ala Met Asn Ala Thr Ile Leu Arg Val Glu His Leu Met
1 5 10 15
Met His Phe Gly Gly Ile Lys Ala Leu Asn Asp Val Asn Leu Glu Val
20 25 30
Gln Arg Gly Ser Ile Thr Ala Leu Ile Gly Pro Asn Gly Ala Gly Lys
35 40 45
Thr Thr Val Phe Asn Cys Leu Thr Gly Phe Tyr Arg Ala Ser Gly Gly
50 55 60
Asn Ile Leu Phe Asn Ala Arg Asn Lys Thr Thr Asn Val Ile Gln Val
65 70 75 80
Leu Gly Gln Lys Phe Gln Pro Gly Asp Trp Leu Asn Pro Ala Gln Leu
85 90 95
Gly Gln Arg Leu Phe Tyr Lys Met Phe Gly Gly Thr His Leu Val Asn
100 105 110
Arg Ala Gly Leu Ala Arg Thr Phe Gln Asn Ile Arg Leu Phe Arg Glu
115 120 125
Met Ser Val Val Glu Asn Leu Leu Val Ala Gln His Met Arg Val Asn
130 135 140
Arg Asn Leu Leu Ala Gly Val Leu Asn Thr Pro Ala Tyr Arg Arg Ala
145 150 155 160
Glu Asn Asp Ala Leu Asp Arg Ala Phe Tyr Trp Leu Glu Val Val Asp
165 170 175
Leu Val Asp Cys Ala Asn Arg Leu Ala Gly Glu Met Ser Tyr Gly Gln
180 185 190
Gln Arg Arg Leu Glu Ile Ala Arg Ala Met Cys Thr Gly Pro Glu Met
195 200 205
Ile Cys Leu Asp Glu Pro Ala Ala Gly Leu Asn Pro Val Glu Thr His
210 215 220
Lys Leu Ser Glu Ile Ile Arg Phe Leu Arg Asp His His Asp Ile Thr
225 230 235 240
Val Leu Leu Ile Glu His Asp Met Gly Met Val Met Gly Ile Ser Asp
245 250 255
Asp Ile Ile Val Leu Asp His Gly Asp Val Ile Ala Arg Gly Lys Pro
260 265 270
Ala Glu Ile Gln His Asn Glu Lys Val Ile Ala Ala Tyr Leu Gly Thr
275 280 285
Asp Glu Ser Glu Val Asn Leu
290 295

<210> 6914
<211> 295
<212> PRT
<213> Enterobacter cloacae

<400> 6914
Ala Leu Ile Pro Leu Tyr Cys Pro Leu Leu Cys Gly Asn Lys Arg Pro
1 5 10 15
Leu Pro Met Leu Met Ile Thr Ser Phe Ser Asn Pro Arg Val Ala Gln
20 25 30
Ala Phe Val Asp Tyr Met Ala Thr Gln Gly Ile Ile Leu Thr Ile Gln
35 40 45
Gln His Thr Gln Thr Asp Val Trp Leu Ala Asp Glu Ser Gln Ala Gly

50		55		60
Arg Val Asn Ala Glu Leu	Ala Arg Phe Leu	Glu Asn Pro Gly Asp Pro		
65	70	75	80	
Arg Tyr Leu Ala Ala Ser	Trp Gln Ser Gly Gln Thr	Gly Ser Gly Leu		
	85	90	95	
His Tyr Gln Arg Phe Pro	Phe Leu Ala Thr Leu	Arg Glu Arg Ala Gly		
	100	105	110	
Pro Phe Thr Leu Leu Leu	Met Val Ala Cys Ile Ile	Val Phe Ile Ile		
	115	120	125	
Met Ser Val Val Gly Asp	Gln Ser Val Met Ile Ala	Leu Ala Trp Pro		
	130	135	140	
Tyr Asp Pro Ser Leu Gln	Phe Asp Val Trp Arg Tyr	Phe Thr His Ala		
145	150	155	160	
Leu Met His Phe Ser Val	Met His Ile Leu Phe	Asn Leu Leu Trp Trp		
	165	170	175	
Trp Tyr Leu Gly Gly Ala	Val Glu Lys Arg Leu	Gly Ser Gly Lys Leu		
	180	185	190	
Ile Val Ile Thr Leu Ile	Ser Ala Leu Leu Ser	Gly Tyr Val Gln His		
	195	200	205	
Lys Phe Ser Gly Pro Trp	Phe Gly Gly Leu Ser	Gly Val Val Tyr Ala		
	210	215	220	
Leu Met Gly Tyr Ala Trp	Leu Arg Gly Glu Arg	Asp Pro Asp Ser Gly		
225	230	235	240	
Ile Tyr Leu Gln Arg Gly	Leu Ile Thr Phe Ala	Leu Ile Trp Leu Ile		
	245	250	255	
Ala Gly Trp Phe Asp Leu	Phe Gly Met Ser Ile	Ala Asn Gly Ala His		
	260	265	270	
Val Thr Gly Leu Ala Val	Gly Leu Ala Met Ala	Leu Ala Asp Thr Leu		
	275	280	285	
His Ala Arg Lys Arg Thr				
290	295			

<210> 6915

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6915

Ser Phe Ala Met Gly His	Thr Pro Gly Ala	Phe His Leu Thr	Asn Asp
1	5	10	15
Thr Leu Gly Ala Phe Met	Arg Asp Asn Asp	Phe Asp Thr Pro	Val Met
	20	25	30
Val Met Cys Tyr His Gly	Asn Ser Ser Lys	Gly Ala Ala Gln	Tyr Leu
	35	40	45
Leu Gln Gln Gly Tyr Glu	Ala Val Tyr Ser Val	Asp Gly Gly Phe	Asp
	50	55	60
Ala Trp His Arg His Phe	Pro Ala Glu Val	Glu Tyr Ala Phe	Glu Arg
65	70	75	80

<210> 6916

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 6916

Tyr Gly Leu Leu Pro Asp	Gly Leu Ile Cys Leu	Val Cys Leu Ser Pro
1	5	10
Met Val Arg Thr Leu Pro	Ala Trp Arg Ser	Gly Trp Arg Trp Arg Trp
	20	25
		30

Pro Ile Arg Ser Met Arg Glu Ser Glu His Asn Ser Gln Gly Tyr Phe
 35 40 45
 Met Lys Gln Thr Gln Arg His Asp Ala Ile Ile Glu Leu Val Lys Lys
 50 55 60
 Gln Gly Tyr Val Ser Thr Glu Glu Leu Val Glu Gln Phe Ala Val Ser
 65 70 75 80
 Pro Gln Thr Ile Arg Arg Asp Leu Asn Asp Leu Ala Asp Gln Asn Arg
 85 90 95
 Ile Leu Arg His His Gly Gly Ala Ala Leu Pro Ser Ser Ser Val Asn
 100 105 110
 Thr Ser Trp His Asp Arg Lys Ala Thr Gln Thr Ala Glu Lys Glu Arg
 115 120 125
 Ile Ala Arg Lys Val Ala Ser Gln Ile Pro Asn Gly Ala Thr Leu Phe
 130 135 140
 Ile Asp Ile Gly Thr Thr Pro Glu Ala Val Ala His Ala Leu Leu Asn
 145 150 155 160
 His Glu Asn Leu Arg Val Val Thr Asn Asn Leu Asn Val Ala Asn Thr
 165 170 175
 Leu Met Gln Lys Asp Asp Phe Arg Ile Ile Leu Ala Gly Gly Glu Leu
 180 185 190
 Arg Ser Arg Asp Gly Gly Ile Ile Gly Glu Ala Thr Leu Asp Phe Ile
 195 200 205
 Ser Gln Phe Arg Leu Asp Phe Gly Ile Leu Gly Ile Ser Gly Ile Asp
 210 215 220
 Thr Asp Gly Ser Leu Leu Glu Phe Asp Tyr His Glu Val Arg Thr Lys
 225 230 235 240
 Arg Ala Ile Ile Glu Asn Ser Arg His Val Met Leu Val Val Asp His
 245 250 255
 Ser Lys Phe Gly Arg Asn Ala Met Val Asn Met Gly Ser Ile Ser Met
 260 265 270
 Val Asp Ala Val Tyr Thr Asp Val Met Pro Pro Ala Gly Val Met Gln
 275 280 285
 Val Ile Lys Asp Asn Asn Leu Gln Leu Glu Leu Cys
 290 295 300

<210> 6917

<211> 811

<212> PRT

<213> Enterobacter cloacae

<400> 6917

Arg Gln Met Cys Phe Leu Ser Thr Gly Cys Arg Phe Pro Met Ser Gln
 1 5 10 15
 Pro Thr Phe Asn Lys Ala Gln Phe Gln Ala Ala Leu Thr Arg Gln Trp
 20 25 30
 Gln Arg Phe Gly Leu His Ala Ala Asn Glu Met Thr Pro His Gln Trp
 35 40 45
 Trp Gln Ala Val Ser Gly Ala Leu Ala Glu Gln Leu Asp Ala Gln Pro
 50 55 60
 Val Ala Lys Pro Val Lys Gly Gln Arg His Val Asn Tyr Ile Ser Met
 65 70 75 80
 Glu Phe Leu Ile Gly Arg Leu Thr Gly Asn Asn Leu Leu Asn Leu Gly
 85 90 95
 Trp Tyr Gln Glu Val Gly Asp Val Leu Lys Glu His Asp Ile Asn Leu
 100 105 110
 Thr Asp Leu Leu Glu Glu Glu Val Asp Pro Ala Leu Gly Asn Gly Gly
 115 120 125
 Leu Gly Arg Leu Ala Ala Cys Phe Leu Asp Ser Met Ala Thr Val Gly
 130 135 140
 Gln Ser Ala Ile Gly Tyr Gly Leu Asn Tyr Gln Tyr Gly Leu Phe Arg
 145 150 155 160

Gln Ser Phe Ala Asp Gly His Gln Met Glu Ala Pro Asp Asp Trp His
 165 170 175
 Arg Asn Thr Tyr Pro Trp Phe Arg His Asn Ala Gln Leu Asp Val Gln
 180 185 190
 Val Gly Ile Gly Gly Lys Val Thr Lys Gln Gly Leu Trp Glu Pro Ala
 195 200 205
 Phe Thr Ile Thr Gly Glu Ala Trp Asp Leu Pro Val Leu Gly Tyr Arg
 210 215 220
 Asn Gly Val Ala Gln Pro Leu Arg Leu Trp Gln Ala Lys His Ala His
 225 230 235 240
 Pro Phe Asn Leu Thr Lys Phe Asn Asp Gly Asp Phe Leu Arg Ala Glu
 245 250 255
 Gln Gln Gly Ile Asp Ala Glu Lys Leu Thr Lys Val Leu Tyr Pro Asn
 260 265 270
 Asp Asn His Leu Ala Gly Lys Lys Leu Arg Leu Met Gln Gln Tyr Phe
 275 280 285
 Gln Cys Ala Cys Ser Val Ala Asp Ile Leu Arg Arg His His Leu Ala
 290 295 300
 Gly Arg Lys Leu Ala Gln Leu Pro Asp Phe Glu Val Ile Gln Leu Asn
 305 310 315 320
 Asp Thr His Pro Thr Ile Ala Ile Pro Glu Leu Leu Arg Val Leu Ile
 325 330 335
 Asp Glu His Gln Leu Ser Trp Asp Asp Ala Trp Ala Ile Thr Ser Arg
 340 345 350
 Thr Phe Ala Tyr Thr Asn His Thr Leu Met Pro Glu Ala Leu Glu Cys
 355 360 365
 Trp Asp Glu Lys Leu Val Lys Thr Leu Leu Pro Arg His Met Gln Ile
 370 375 380
 Ile Asn Lys Ile Asn Asp Gln Phe Lys Thr Leu Val Glu Lys Thr Trp
 385 390 395 400
 Pro Gly Asp Lys Ala Val Trp Ala Lys Leu Ala Val Val His Asp Lys
 405 410 415
 Gln Val Arg Met Ala Asn Met Cys Val Val Ser Gly Phe Ala Val Asn
 420 425 430
 Gly Val Ala Ala Leu His Ser Asp Leu Val Val Lys Asp Leu Phe Pro
 435 440 445
 Glu Tyr His Gln Leu Trp Pro Thr Lys Phe His Asn Val Thr Asn Gly
 450 455 460
 Ile Thr Pro Arg Arg Trp Ile Lys Gln Cys Asn Pro Leu Leu Ala Gly
 465 470 475 480
 Leu Leu Asp Lys Thr Leu Lys Lys Glu Trp Ala Asn Asp Leu Asp Gln
 485 490 495
 Leu Ile Asn Leu Glu Lys Leu Ala Asp Asn Ala Lys Phe Arg Glu Gln
 500 505 510
 Tyr Arg Ala Ile Lys Leu Glu Asn Lys Val Arg Leu Ala Glu Phe Val
 515 520 525
 Lys Met Arg Thr Gly Ile Glu Ile Asn Pro Asn Ala Ile Phe Asp Ile
 530 535 540
 Gln Ile Lys Arg Leu His Glu Tyr Lys Arg Gln His Leu Asn Leu Leu
 545 550 555 560
 His Ile Leu Ala Leu Tyr Lys Glu Ile Arg Glu Asn Pro Gln Ala Asp
 565 570 575
 Arg Val Pro Arg Val Phe Leu Phe Gly Ala Lys Ala Ala Pro Gly Tyr
 580 585 590
 Tyr Leu Ala Lys Asn Ile Ile Leu Ala Ile Asn Lys Val Ala Ala Ala
 595 600 605
 Ile Asn Asn Asp Pro Lys Val Gly Asp Lys Leu Lys Val Val Phe Leu
 610 615 620
 Pro Asp Tyr Cys Val Ser Ala Ala Glu Met Leu Ile Pro Ala Ala Asp
 625 630 635 640
 Ile Ser Glu Gln Ile Ser Thr Ala Gly Lys Glu Ala Ser Gly Thr Gly

Asn	Met	Lys	Leu	Ala	Leu	Asn	Gly	Ala	Leu	Thr	Val	Gly	Thr	Leu	Asp	655
			660				665						670			
Gly	Ala	Asn	Val	Glu	Ile	Ala	Glu	Lys	Val	Gly	Glu	Glu	Asn	Ile	Phe	
	675						680					685				
Ile	Phe	Gly	His	Thr	Val	Glu	Glu	Val	Lys	Ala	Ile	Lys	Ala	Lys	Gly	
	690					695					700					
Tyr	Asp	Pro	Val	Lys	Trp	Arg	Lys	Lys	Asp	Lys	Val	Leu	Asp	Ala	Val	
	705				710					715					720	
Leu	Lys	Glu	Leu	Glu	Ser	Gly	Lys	Tyr	Ser	Asp	Gly	Asp	Lys	His	Ala	
			725						730					735		
Phe	Asp	Gln	Met	Leu	His	Ser	Met	Asp	Lys	Gln	Gly	Gly	Asp	Pro	Tyr	
	740						745					750				
Leu	Val	Met	Ala	Asp	Phe	Ser	Ala	Tyr	Val	Glu	Ala	Gln	Lys	Gln	Val	
	755						760					765				
Asp	Val	Leu	Tyr	Arg	Asp	Gln	Asp	Ala	Trp	Thr	Arg	Ala	Cys	Ile	Leu	
	770					775					780					
Asn	Thr	Ala	Arg	Cys	Gly	Met	Phe	Ser	Ser	Asp	Arg	Ser	Ile	Arg	Asp	
	785				790					795					800	
Tyr	Gln	Ala	Arg	Ile	Trp	Gln	Ala	Lys	Arg							
			805						810							

<210> 6918

<211> 697

<212> PRT

<213> Enterobacter cloacae

<400> 6918

Gly	Ser	Ala	Met	Glu	Ser	Lys	Arg	Leu	Asp	Ser	Ala	Ala	Gln	Ala	Ala	
1			5					10					15			
Gly	Ile	Ser	Leu	Ser	Tyr	Ile	Asn	Ala	His	Gly	Lys	Pro	Gln	Ser	Ile	
		20					25						30			
Gly	Ala	Asp	Thr	Lys	Arg	Arg	Leu	Leu	Asp	Ala	Met	His	Lys	Thr	Asp	
	35					40					45					
Ala	Lys	Ala	Ser	Gly	Ala	Pro	Val	Pro	Asn	Val	Lys	Val	Phe	Thr	Ala	
	50				55					60						
Gly	Lys	Lys	Met	Pro	Leu	Ala	Val	Glu	Gly	Arg	Gly	Glu	Phe	Ser	Trp	
	65			70					75					80		
Leu	Leu	Thr	Thr	Glu	Gly	His	Gln	His	Lys	Gly	His	Ala	Thr	Gly		
		85				90							95			
Gly	Lys	Thr	Leu	Asn	Leu	Pro	Ala	Lys	Leu	Pro	Glu	Gly	Tyr	His	Thr	
		100				105						110				
Leu	Thr	Leu	Thr	Arg	Asp	Asp	Gln	Arg	Phe	His	Cys	Arg	Val	Ile	Val	
	115					120						125				
Ala	Pro	Lys	Arg	Cys	Tyr	Glu	Pro	Gln	Ala	Leu	Leu	Glu	Gly	Lys	Lys	
	130					135				140						
Leu	Trp	Gly	Ala	Cys	Val	Gln	Leu	Tyr	Thr	Leu	Arg	Ser	Asp	Ser	Asn	
	145			150					155					160		
Trp	Gly	Ile	Gly	Asp	Phe	Gly	Asp	Leu	Lys	Lys	Met	Leu	Ala	Ser	Val	
		165						170					175			
Gly	Glu	Arg	Gly	Gly	Ala	Phe	Ile	Gly	Leu	Asn	Pro	Ile	His	Ala	Leu	
	180					185						190				
Tyr	Pro	Ala	Asn	Pro	Glu	Ser	Ala	Ser	Pro	Tyr	Ser	Pro	Ser	Ser	Arg	
	195					200						205				
Arg	Trp	Leu	Asn	Val	Ile	Tyr	Ile	Asp	Val	Asn	Ala	Leu	Asp	Asp	Phe	
	210				215						220					
Lys	Asn	Ser	Lys	Glu	Ala	Gln	Ala	Trp	Trp	Lys	Leu	Glu	Thr	Thr	Gln	
	225				230					235					240	
Gln	Met	Leu	Lys	Gln	Ala	Arg	Asp	Ala	Asp	Trp	Val	Asp	Tyr	Ala	Ser	
		245						250					255			
Val	Thr	Ala	Leu	Lys	Met	Ala	Ala	Leu	Arg	Leu	Ala	Trp	Lys	Gly	Phe	

260 265 270
 Ala Lys Arg Asp Asp Glu Gln Met Ala Ala Phe Arg Gln Phe Val Met
 275 280 285
 Gln Glu Gly Glu Ser Leu Tyr Trp Gln Ala Ala Phe Asp Ala Leu His
 290 295 300
 Ala Tyr Gln Val Gln Glu Asp Glu Met Arg Trp Gly Trp Pro Val Trp
 305 310 315 320
 Pro Glu Ala Tyr Gln Ser Val Asp Thr Pro Glu Val Lys Ala Phe Cys
 325 330 335
 Glu Thr His Ala Asp Glu Val Asp Phe Tyr Leu Trp Leu Gln Trp Leu
 340 345 350
 Ala Tyr Ser Gln Phe Ala Ala Cys Trp Gln Val Ser Gln Gly Tyr Asn
 355 360 365
 Met Pro Ile Gly Leu Tyr Arg Asp Leu Ala Val Gly Val Ala Glu Gly
 370 375 380
 Gly Ala Glu Thr Trp Cys Asp Arg Glu Leu Tyr Cys Leu Lys Ala Ser
 385 390 395 400
 Val Gly Ala Pro Pro Asp Ile Leu Gly Pro Leu Gly Gln Asn Trp Gly
 405 410 415
 Leu Pro Pro Met Asp Pro His Val Met Ala Ala Arg Ala Tyr Glu Pro
 420 425 430
 Phe Ile Asp Leu Leu Arg Ala Asn Met Gln Asn Cys Gly Ala Leu Arg
 435 440 445
 Ile Asp His Val Met Ser Val Leu Arg Leu Trp Trp Ile Pro Tyr Gly
 450 455 460
 Glu Thr Ala Asp His Gly Ala Tyr Val Gln Tyr Pro Val Asp Asp Leu
 465 470 475 480
 Leu Ser Ile Leu Ala Leu Glu Ser Lys Arg His Gln Cys Met Val Ile
 485 490 495
 Gly Glu Asp Leu Gly Thr Val Pro Val Glu Ile Val Ser Lys Leu Arg
 500 505 510
 Asp Ser Gly Val Tyr Ser Tyr Lys Val Leu Tyr Phe Glu Asn Asp His
 515 520 525
 Glu Lys Thr Phe Arg Ala Pro Lys Ala Tyr Pro Glu Gln Ser Met Ala
 530 535 540
 Val Ala Thr Thr His Asp Leu Pro Thr Leu Arg Gly Tyr Trp Glu Ser
 545 550 555 560
 Gly Asp Leu Thr Leu Gly Lys Thr Leu Gly Leu Tyr Pro Asp Glu Glu
 565 570 575
 Val Leu Arg Gly Leu Tyr Gln Asp Arg Glu Leu Ala Lys Gln Gly Leu
 580 585 590
 Leu Asp Ala Leu His Lys His Gly Cys Leu Pro Lys Arg Ala Gly His
 595 600 605
 Lys Ala Ser Leu Met Ser Met Thr Pro Met Leu Asn Arg Gly Leu Gln
 610 615 620
 Arg Tyr Ile Ala Asp Ser Asn Ser Ala Leu Leu Gly Leu Gln Pro Glu
 625 630 635 640
 Asp Trp Ile Asp Met Ala Glu Pro Val Asn Ile Pro Gly Thr Ser Tyr
 645 650 655
 Gln Tyr Lys Asn Trp Arg Arg Lys Leu Ser Thr Thr Leu Glu Ala Met
 660 665 670
 Phe Ala Asp Asp Gly Val Asn Arg Leu Ile Lys Asp Leu Asp Lys Arg
 675 680 685
 Arg Arg Ala Val Gly Asn Lys Arg
 690 695

<210> 6919

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 6919

Leu Ser Arg Gln Ser Arg Pro Ala His Pro Ala Ala Arg Cys Gly Gly
 1 5 10 15
 Thr Thr Asp Arg Tyr Cys Gly Ala Ser Arg Pro Ala Leu Pro Ser Asp
 20 25 30
 Gly Arg Arg Gln Met Thr Asp Gly Thr Gly Arg Thr Asp Ser Ser Gly
 35 40 45
 His Ser Gln Ser Pro Thr Gly Pro Pro Leu Pro Trp Asn Pro Gly Ser
 50 55 60
 Arg Leu Pro Asp Val Pro Asp Arg Arg Tyr Pro Ala Pro Gly Gln Pro
 65 70 75 80
 Leu Leu Pro Ala Asp Arg Ser Gly
 85

<210> 6920

<211> 920

<212> PRT

<213> *Enterobacter cloacae*

<400> 6920

Leu Arg Ser Ala Lys Lys Ile Asn Ser Leu Val Pro His Ser Glu Val
 1 5 10 15
 Lys Thr Met Leu Ile Pro Ser Lys Leu Ser Arg Pro Val Arg Leu Asp
 20 25 30
 His Thr Val Val Arg Glu Arg Leu Leu Ala Lys Leu Ser Gly Ala His
 35 40 45
 Asn Phe Arg Leu Ala Leu Val Thr Ser Pro Ala Gly Tyr Gly Lys Thr
 50 55 60
 Thr Leu Ile Ser Gln Trp Ala Ala Gly Lys Ser Asp Leu Gly Trp Tyr
 65 70 75 80
 Ser Leu Asp Glu Gly Asp Asn Gln Gln Glu Arg Phe Ala Ser Tyr Leu
 85 90 95
 Ile Ala Ala Ile Gln Gln Ala Thr Asn Gly His Cys Val Thr Ser Glu
 100 105 110
 Val Met Val Gln Lys Arg Gln Tyr Ala Ser Leu Ser Ser Leu Phe Ser
 115 120 125
 Gln Leu Phe Ile Glu Leu Ala Glu Trp His Arg Pro Leu Tyr Val Val
 130 135 140
 Ile Asp Asp Tyr His Leu Ile Thr Asn Pro Val Ile His Glu Ser Met
 145 150 155 160
 Arg Phe Phe Leu Arg His Gln Pro Glu Asn Leu Thr Leu Val Val Leu
 165 170 175
 Ser Arg Asn Leu Pro Gln Leu Gly Ile Ala Asn Leu Arg Val Arg Asp
 180 185 190
 Gln Leu Leu Glu Ile Gly Ser Gln Gln Leu Ala Phe Thr His Gln Glu
 195 200 205
 Ala Lys Gln Phe Phe Asp Cys Arg Leu Thr Ser Pro Ile Glu Ala Ser
 210 215 220
 Glu Ser Ser Arg Leu Cys Asp Asp Val Ala Gly Trp Ala Thr Ala Leu
 225 230 235 240
 Gln Leu Ile Ala Leu Ser Ala Arg Gln Asn Ser Pro Thr His Gln
 245 250 255
 Ser Ala Arg Arg Leu Ala Gly Ile Asn Ala Ser His Leu Ser Asp Tyr
 260 265 270
 Leu Val Asp Glu Val Leu Asp Ser Val Asp Leu Ser Thr Arg His Phe
 275 280 285
 Leu Leu Lys Ser Ser Leu Leu Arg Ser Met Asn Asp Ala Leu Ile Val
 290 295 300
 Arg Val Thr Gly Ile Glu Asn Gly Gln Leu Gln Leu Glu Ile Glu
 305 310 315 320
 Arg Gln Gly Leu Phe Leu Thr Arg Met Asp Asp His Gly Glu Trp Phe

Ser	Tyr	His	Pro	Leu	Phe	Gly	Ser	Phe	Leu	Arg	Gln	Arg	Cys	Gln	Trp
			340					345					350		
Glu	Leu	Ala	Ala	Glu	Leu	Pro	Asp	Ile	His	Arg	Ala	Ala	Ala	Glu	Ser
		355					360					365			
Trp	Met	Ala	Gln	Gly	Phe	Pro	Ser	Glu	Ala	Ile	His	His	Ala	Leu	Ala
		370				375					380				
Ala	Gly	Asp	Ala	Gly	Met	Leu	Arg	Asp	Ile	Leu	Leu	Asn	His	Ala	Trp
385						390				395					400
Gly	Leu	Phe	Asn	His	Ser	Glu	Leu	Thr	Leu	Leu	Glu	Glu	Ser	Leu	Lys
			405						410					415	
Ala	Leu	Pro	Trp	Glu	Ser	Leu	Leu	Glu	Asn	Pro	Arg	Leu	Val	Leu	Leu
			420					425					430		
Gln	Ala	Trp	Leu	Met	Gln	Ser	Gln	His	Arg	Tyr	Ser	Glu	Val	Asn	Thr
		435					440					445			
Leu	Leu	Ala	Arg	Ala	Glu	Gln	Glu	Met	Glu	Ser	Glu	Met	Asp	Thr	Thr
		450				455					460				
Leu	His	Gly	Glu	Phe	Asn	Ala	Leu	Arg	Ala	Gln	Val	Ala	Ile	Asn	Asp
465					470				475					480	
Gly	Asp	Pro	Asp	Glu	Ala	Glu	Arg	Leu	Ala	Met	Val	Ala	Leu	Asp	Glu
				485					490					495	
Leu	Pro	Leu	Ala	Asn	Phe	Tyr	Ser	Arg	Ile	Val	Ala	Thr	Ser	Val	His
			500					505					510		
Gly	Glu	Val	Leu	His	Cys	Lys	Gly	Asp	Leu	Thr	Arg	Ser	Ser	Ser	Leu
		515				520						525			
Met	Gln	Gln	Thr	Glu	Gln	Met	Ala	Arg	Arg	His	Asp	Val	Trp	His	Tyr
						535					540				
Ala	Leu	Trp	Ser	Leu	Ile	Gln	Gln	Ser	Glu	Ile	Leu	Phe	Ala	Gln	Gly
545					550					555				560	
Phe	Leu	Gln	Ala	Ala	Trp	Glu	Asn	Gln	Gln	Lys	Ala	Phe	Gln	Leu	Ile
				565					570					575	
Arg	Glu	Gln	His	Leu	Glu	Gln	Leu	Pro	Met	His	Glu	Phe	Leu	Leu	Arg
			580					585					590		
Ile	Arg	Ala	Gln	Leu	Leu	Trp	Ala	Trp	Ser	Arg	Leu	Asp	Glu	Ala	Glu
		595					600					605			
Ser	Cys	Ala	Arg	Gln	Gly	Leu	Asn	Val	Leu	Ser	Ser	Phe	Gln	Pro	Gln
		610				615					620				
Gln	Gln	Leu	Gln	Cys	Leu	Ala	Leu	Leu	Val	Gln	Cys	Ser	Leu	Ala	Arg
625					630					635				640	
Gly	Asp	Leu	Asp	Asn	Ala	Arg	Asn	His	Leu	Asn	Arg	Leu	Glu	Asn	Leu
				645					650					655	
Leu	Gly	Asn	Gly	Gln	Tyr	His	Ser	Asp	Trp	Val	Ser	Asn	Ala	Asp	Lys
		660						665					670		
Val	Arg	Val	Ile	Tyr	Trp	Gln	Met	Thr	Gly	Asp	Lys	Lys	Ser	Ala	Ala
		675					680					685			
Asn	Trp	Leu	Arg	His	Thr	Pro	Lys	Pro	Glu	Phe	Ala	Asn	Asn	His	Phe
		690				695					700				
Leu	Gln	Ser	Gln	Trp	Arg	Asn	Ile	Ala	Arg	Val	Gln	Ile	Leu	Leu	Gly
705					710					715				720	
Asp	Phe	Glu	Pro	Ala	Glu	Ile	Val	Leu	Glu	Glu	Leu	Asn	Glu	Asn	Ala
			725					730						735	
Arg	Ser	Leu	Arg	Leu	Met	Ser	Asp	Leu	Asn	Arg	Asn	Leu	Leu	Leu	Leu
		740						745					750		
Asn	Gln	Leu	Tyr	Trp	Gln	Ala	Gly	Arg	Lys	Asn	Asp	Ala	Gln	Arg	Val
		755					760					765			
Leu	Leu	Glu	Ala	Leu	Gln	Leu	Ala	Asn	Arg	Thr	Gly	Phe	Ile	Ser	His
		770				775					780				
Phe	Val	Ile	Glu	Gly	Glu	Val	Met	Ala	Gln	Gln	Leu	Arg	Gln	Leu	Ile
785					790					795				800	
Gln	Leu	Asn	Thr	Leu	Pro	Glu	Leu	Asp	Gln	His	Arg	Ala	Gln	Arg	Ile
				805					810					815	

Leu Arg Glu Ile Asn Gln His His Arg His Lys Phe Ala His Phe Asp
 820 825 830
 Glu Asn Phe Val Glu Arg Leu Leu Asn His Pro Glu Val Pro Glu Leu
 835 840 845
 Ile Arg Thr Ser Pro Leu Thr Gln Arg Glu Trp Gln Val Leu Gly Leu
 850 855 860
 Ile Tyr Ser Gly Tyr Ser Asn Glu Gln Ile Ala Gly Glu Leu Ala Val
 865 870 875 880
 Ala Ala Thr Thr Ile Lys Thr His Ile Arg Asn Leu Tyr Gln Lys Leu
 885 890 895
 Gly Val Ala His Arg Gln Asp Ala Val Gln His Ala Gln Gln Leu Leu
 900 905 910
 Lys Met Met Gly Tyr Gly Val
 915 920

<210> 6921

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 6921

Ile Thr Arg Ser Thr Arg Ile Phe Gln Pro Arg Val Lys Ile Ser His
 5 10 15
 Val Asn Asp Pro Gly Phe Trp Leu Phe Lys Glu Tyr Phe Asn Leu Thr
 20 25 30
 Ile Gly Glu Thr Ile Lys Ser Trp Ser Ala Leu Glu Thr Ile Ile Ser
 35 40 45
 Val Cys Gly Leu Val Gly Val Leu Leu Leu Asn Met Val Val
 50 55 60

<210> 6922

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 6922

Lys Lys Glu His Arg Met Lys Tyr Val Asn Leu Gly Arg Ser Gly Leu
 5 10 15
 Gln Val Ser Arg Leu Cys Leu Gly Cys Met Ser Tyr Gly Glu Pro Glu
 20 25 30
 Arg Leu Pro Gln Pro Trp Ser Leu Asp Glu Lys Ala Ser Arg Pro Leu
 35 40 45
 Ile Arg Gln Ala Leu Glu Ala Gly Ile Asn Phe Phe Asp Thr Ala Asn
 50 55 60
 Ile Tyr Ser Gly Gly Ser Ser Glu Glu Ile Thr Gly Lys Ala Leu Arg
 65 70 75 80
 Glu Met Ala Arg Arg Asp Glu Ile Val Val Ala Thr Lys Thr Phe Phe
 85 90 95
 Pro Trp Arg Asn Ser Pro Asn Thr Gly Phe Leu Ser Arg Lys Ala Ile
 100 105 110
 Phe Gln Ser Ile Asp Asp Ser Leu Met Arg Leu Gly Met Asp Tyr Val
 115 120 125
 Asp Leu Phe Gln Ile His Arg Phe Asp His Ser Thr Pro Val Glu Glu
 130 135 140
 Thr Met Glu Ala Leu His Asp Leu Val Lys Ser Gly Lys Val Arg Tyr
 145 150 155 160
 Ile Gly Ala Ser Ser Met Glu Ala Trp Arg Phe Ala Lys Met Gln His
 165 170 175
 Thr Ala Glu Leu Asn Gly Trp Thr Arg Phe Ile Thr Met Gln Pro Gln
 180 185 190
 Tyr Asn Leu Leu Tyr Arg Glu Glu Glu Arg Glu Met Leu Pro Leu Cys

195										200										205																													
Glu	Asp	Gln	Gly	Val	Gly	Val	Ile	Pro	Trp	Ser	Pro	Met	Ala	Arg	Gly	Glu	Asp	Gln	Gly	Val	Gly	Val	Ile	Pro	Trp	Ser	Pro	Met	Ala	Arg	Gly	Glu	Asp	Gln	Gly	Val	Gly	Val	Ile	Pro	Trp	Ser	Pro	Met	Ala	Arg	Gly		
210						215					220					210						215					220						210						215					220					
Arg	Leu	Thr	Arg	Asp	Trp	Ser	Val	Thr	Ser	Arg	Arg	Thr	Gln	Asn	Asp	Arg	Leu	Thr	Arg	Asp	Trp	Ser	Val	Thr	Ser	Arg	Arg	Thr	Gln	Asn	Asp	Arg	Leu	Thr	Arg	Asp	Trp	Ser	Val	Thr	Ser	Arg	Arg	Thr	Gln	Asn	Asp		
225						230					235					225						230					235						225						230					235					
Ala	Phe	Ala	Leu	Lys	Met	Tyr	Glu	Asn	Ala	Ala	Leu	Leu	Asp	Lys	Pro	Ala	Phe	Ala	Leu	Lys	Met	Tyr	Glu	Asn	Ala	Ala	Leu	Leu	Asp	Lys	Pro	Ala	Phe	Ala	Leu	Lys	Met	Tyr	Glu	Asn	Ala	Ala	Leu	Leu	Asp	Lys	Pro		
						245					250											245					250												245					250					
Val	Ile	Asp	Val	Val	Ala	Ser	Ile	Ala	Glu	Lys	His	Asp	Val	Pro	Arg	Val	Ile	Asp	Val	Val	Ala	Ser	Ile	Ala	Glu	Lys	His	Asp	Val	Pro	Arg	Val	Ile	Asp	Val	Val	Ala	Ser	Ile	Ala	Glu	Lys	His	Asp	Val	Pro	Arg		
						260					265											260					265												260					265					
Ala	His	Val	Ala	Ile	Ala	Trp	Leu	Leu	Ser	Lys	Thr	Val	Ile	Thr	Ala	Ala	His	Val	Ala	Ile	Ala	Trp	Leu	Leu	Ser	Lys	Thr	Val	Ile	Thr	Ala	Ala	His	Val	Ala	Ile	Ala	Trp	Leu	Leu	Ser	Lys	Thr	Val	Ile	Thr	Ala		
						275					280											275					280												275					280					
Pro	Ile	Ile	Gly	Ala	Thr	Lys	Pro	Glu	His	Leu	Ser	Thr	Ala	Ile	Ser	Pro	Ile	Ile	Gly	Ala	Thr	Lys	Pro	Glu	His	Leu	Ser	Thr	Ala	Ile	Ser	Pro	Ile	Ile	Gly	Ala	Thr	Lys	Pro	Glu	His	Leu	Ser	Thr	Ala	Ile	Ser		
						290					300											290					300												290					300					
Ala	Leu	Asp	Phe	Ser	Leu	Ser	Asp	Ala	Glu	Ile	Met	Glu	Leu	Glu	Ala	Ala	Leu	Asp	Phe	Ser	Leu	Ser	Asp	Ala	Glu	Ile	Met	Glu	Leu	Glu	Ala	Ala	Leu	Asp	Phe	Ser	Leu	Ser	Asp	Ala	Glu	Ile	Met	Glu	Leu	Glu	Ala		
						310					315											310					315												310					315					
His	Tyr	Leu	Pro	His	Pro	Val	Asp	Gly	Ile	Ile	Pro	Pro	Leu	Pro	Asp	His	Tyr	Leu	Pro	His	Pro	Val	Asp	Gly	Ile	Ile	Pro	Pro	Leu	Pro	Asp	His	Tyr	Leu	Pro	His	Pro	Val	Asp	Gly	Ile	Ile	Pro	Pro	Leu	Pro	Asp		
						325					330											325					330												325					330					
Thr	Pro	Pro	Ser	Leu	Thr	Pro	Pro	Ser	Ala	Ile	Gln	Asp	Cys			Thr	Pro	Pro	Ser	Leu	Thr	Pro	Pro	Ser	Ala	Ile	Gln	Asp	Cys			Thr	Pro	Pro	Ser	Leu	Thr	Pro	Pro	Ser	Ala	Ile	Gln	Asp	Cys				
						340					345											340					345												340					345					

<210> 6923

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 6923

Val	Asp	Gly	Leu	Val	Lys	Lys	Ile	Gln	Gln	Arg	Ile	Ser	Pro	Gly	Arg	Val	Asp	Gly	Leu	Val	Lys	Lys	Ile	Gln	Gln	Arg	Ile	Ser	Pro	Gly	Arg																
1				5				10					15			1				5				10					15			1				5				10					15		
Ser	Met	Val	Tyr	Ile	Ile	Ser	Val	Ser	Ile	His	Ser	Gly	Leu	Asn	Ala	Ser	Met	Val	Tyr	Ile	Ile	Ser	Val	Ser	Ile	His	Ser	Gly	Leu	Asn	Ala																
				20				25				30								20				25				30								20				25				30			
Gln	Gly	Lys	Arg	Phe	Cys	Met	Gln	Ile	Ser	Arg	Ala	Asp	Val	Ala	Asp	Gln	Gly	Lys	Arg	Phe	Cys	Met	Gln	Ile	Ser	Arg	Ala	Asp	Val	Ala	Asp																
				35				40				45								35				40				45								35				40				45			
Leu	Ile	Tyr	Phe	Met	Ala	Ile	Ala	Arg	His	Arg	Ser	Phe	Ser	Arg	Ala	Leu	Ile	Tyr	Phe	Met	Ala	Ile	Ala	Arg	His	Arg	Ser	Phe	Ser	Arg	Ala																
				50				55				60								50				55				60								50				55				60			
Ala	Ile	Glu	Leu	Gly	Val	Ser	Ala	Ser	Ala	Leu	Ser	His	Ala	Leu	Lys	Ala	Ile	Glu	Leu	Gly	Val	Ser	Ala	Ser	Ala	Leu	Ser	His	Ala	Leu	Lys																
				65				70				75								65				70				75								65				70				75			
Gly	Leu	Glu	Thr	Arg	Leu	Gly	Val	Arg	Leu	Leu	Asn	Arg	Thr	Thr	Lys	Gly	Leu	Glu	Thr	Arg	Leu	Gly	Val	Arg	Leu	Leu	Asn	Arg	Thr	Thr	Lys																
				85				90				95								85				90				95								85				90				95			
Ser	Val	Thr	Pro	Thr	Ala	Ala	Gly	Glu	Glu	Leu	Val	Gln	Ser	Val	Leu	Ser	Val	Thr	Pro	Thr	Ala	Ala	Gly	Glu	Glu	Leu	Val	Gln	Ser	Val	Leu																
				100				105				110								100				105				110								100				105				110			
Gln	Pro	Phe	Asp	Thr	Ile	Glu	Gly	Ala	Leu	Glu	Ser	Leu	Asn	Arg	Tyr	Gln	Pro	Phe	Asp	Thr	Ile	Glu	Gly	Ala	Leu	Glu	Ser	Leu	Asn	Arg	Tyr																
				115				120				125								115				120				125								115				120				125			
Arg	Asn	Thr	Pro	Thr	Gly	Arg	Ile	Arg	Ile	Asn	Ala	Ala	Val	Glu	Ala	Arg	Asn	Thr	Pro	Thr	Gly	Arg	Ile	Arg	Ile	Asn	Ala	Ala	Val	Glu	Ala																
				130				135				140								130				135				140								130				135				140			
Ala	Asn	Leu	Leu	Leu	Ala	Pro	Val	Met	Pro	Ala	Phe	Met	Asp	Arg	Tyr	Ala	Asn	Leu	Leu	Leu	Ala	Pro	Val	Met	Pro	Ala	Phe	Met	Asp	Arg	Tyr																
				145				150				155								145				150				155								145				150				155			
Pro	Asp	Ile	Glu	Ile	Asp	Ile	Val	Ala	Ser	Asn	Arg	Met	Val	Asp	Val	Pro	Asp	Ile	Glu	Ile	Asp	Ile	Val	Ala	Ser	Asn	Arg	Met	Val	Asp	Val																
				165				170				175								165				170				175								165				170				175			
Thr	Asp	Ala	Gly	Phe	Asp	Ala	Gly	Ile	Arg	Tyr	Gly	Gly	Thr	Val	Pro	Thr	Asp	Ala	Gly	Phe	Asp	Ala	Gly	Ile	Arg	Tyr	Gly	Gly	Thr	Val	Pro																
				180				185				190								180				185				190								180				185				190			
Glu	Asp	Met	Val	Ala	Arg	Leu	Ser	Ala	Asp	Ile	Arg	Trp	Val	Ile		Glu	Asp	Met	Val	Ala	Arg	Leu	Ser	Ala	Asp	Ile	Arg	Trp	Val	Ile																	
				195				200				205								195				200				205								195				200				205			
Ala	Ala	Ser	Pro	Asp	Tyr	Leu	Glu	Arg	Tyr	Gly	Thr	Pro	Glu	Tyr	Pro	Ala	Ala	Ser	Pro	Asp	Tyr	Leu	Glu	Arg	Tyr	Gly	Thr	Pro	Glu	Tyr	Pro																
				210				215				220								210				215				220								210				215				220			
Asp	Asp	Leu	Leu	His	His	Arg	Cys	Ile	Ser	Asn	Arg	Leu	Gly	Asp	Asp	Asp	Asp	Leu	Leu	His	His	Arg	Cys	Ile	Ser	Asn	Arg	Leu	Gly	Asp	Asp																
				225				230				235								225				230				235								225				230				235			
Arg	Ile	Tyr	Arg	Trp	Glu	Leu	Glu	Arg	Asp	Gly	Glu	Thr	Tyr	Gln	Ile	Arg	Ile	Tyr	Arg	Trp	Glu	Leu	Glu	Arg	Asp	Gly	Glu	Thr	Tyr	Gln	Ile																
				245				250				255								245				250				255								245				250				255			

275 280 285
 Ala Pro Tyr Val Lys Asp Gly Arg Leu Arg Leu Val Leu Thr Glu Trp
 290 295 300
 Ser Pro Leu Glu Glu Gly Phe His Ile Tyr Tyr Ser Ser Arg Arg Gln
 305 310 315
 Leu Pro Thr Gly Leu Arg Leu Leu Ile Glu Phe Ile Gln Glu Ala Arg
 325 330 335
 Pro Leu Gly Leu
 340

<210> 6924
 <211> 179
 <212> PRT
 <213> Enterobacter cloacae

<400> 6924
 Arg Val Arg Pro Asp Met Lys Pro Ala Asp Lys Pro Val Leu Cys Val
 1 5 10 15
 Val Ser Ser His Pro Ile Lys Gly Ala Ser Gly Val Pro Thr Gly Phe
 20 25 30
 Phe Leu Ala Glu Leu Thr His Pro Leu Lys Val Val Glu Asp Ala Gly
 35 40 45
 Leu Lys Thr Thr Ile Ala Ser Ile Arg Gly Gly Gln Pro Pro Val Asp
 50 55 60
 Gly Phe Asp Leu Ser Asp Pro Val Asn Ala Trp Phe Trp Asn Glu Thr
 65 70 75 80
 Asp Phe Gln Gln Arg Leu Ala Thr Thr Pro Ala Leu Ser Glu Leu Asn
 85 90 95
 Gly Ser Asp Tyr Ser Ala Val Phe Phe Ala Gly Gly His Gly Thr Met
 100 105 110
 Trp Asp Phe Arg Asp Ser Gln Asp Ala Gln Arg Ile Ile Arg Glu Val
 115 120 125
 Tyr Gln Ser Asp Gly Ile Val Ala Ala Val Cys His Gly Pro Ala Ala
 130 135 140
 Leu Val Asp Ser Lys Leu Ser Ser Gly Glu Tyr Leu Val Lys Gly Lys
 145 150 155 160
 Asn Val Ala Ala Phe Thr Asn Lys Glu Ser Pro Ala Gly Arg Lys
 165 170 175
 Glu Gln Arg

<210> 6925
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 6925
 Val Val Ser Met Ser Gly Lys Gly Tyr Pro Lys Ala Phe Lys Ile Glu
 1 5 10 15
 Ala Val Lys Gln Val Val Glu Arg Gly Tyr Ser Val Ser Ser Val Thr
 20 25 30
 Thr Leu Leu Asp Ile Thr Thr His Gly Leu Tyr Ala Arg Ile Lys Lys
 35 40 45
 Ile Ala Val Gly Phe His Cys Pro Gln Cys Ile Arg Gln
 50 55 60

<210> 6926
 <211> 176
 <212> PRT
 <213> Enterobacter cloacae

<400> 6926

Lys Gln Trp Arg Ala Tyr Ser Ser Arg Ala Cys Ala Arg Asn Glu Ile
 1 5 10 15
 Gly Lys Gly His Arg Asn Ile Ala Leu Val Ile Asp Asn Glu Thr Asp
 20 25 30
 Asp Ala Ser Lys Arg Met Val Glu Gly Tyr Arg Asn Val Leu Gln Asn
 35 40 45
 Tyr Ser Phe Pro Phe Asn Arg Gln Leu Val Leu Thr Ala Asn Glu Asn
 50 55 60
 Val Glu Arg Ala Leu Leu Thr Leu Ile Asn Ser Leu Ser Lys Phe Ser
 65 70 75 80
 Ser Ile Val Val Lys Arg Asp Ala Tyr Ala Ala Glu Ala Met Arg Leu
 85 90 95
 Phe Arg Glu Phe Asn Ile Ala Val Pro Gln Glu Val Ser Leu Leu Ser
 100 105 110
 Leu Glu Asp Ser Pro Leu Ala Thr Gln Leu Tyr Pro Gln Leu Thr Cys
 115 120 125
 Ile Ser Trp Pro Met Glu Ser Leu Leu His Gln Cys Val Gln Arg Ile
 130 135 140
 Lys Ser Ile Val Glu Gly Arg Pro Leu Arg Glu Thr Glu Leu Pro Pro
 145 150 155 160
 Ile Ile Gly Lys Leu Thr Pro Arg Gln Ser Val Leu Glu Met Ser
 165 170 175

<210> 6927

<211> 356

<212> PRT

<213> Enterobacter cloacae

<400> 6927

Thr Arg Cys Ala Leu Leu Phe Leu Lys Ile Met Arg Ser Gly Arg Arg
 1 5 10 15
 Ser Gly Arg Asn Ile His Leu Thr Glu Pro Cys Met Asn Tyr Thr His
 20 25 30
 Leu Gly Arg Thr Gly Leu Lys Val Ser Arg Leu Cys Leu Gly Thr Met
 35 40 45
 Asn Phe Gly Asp Val Thr Asp Glu Lys Thr Ser Ala Arg Ile Leu Asp
 50 55 60
 Glu Ala Leu Glu Ala Gly Ile Asn Phe Ile Asp Thr Ala Asp Val Tyr
 65 70 75 80
 Gly Thr Glu Gln Ser Pro Asp Ile Gln Gln Gly Ser Gly Leu Ser Glu
 85 90 95
 Glu Ile Ile Gly Arg Trp Ile Gln Gln Gly Gly Arg Arg Asp Arg Ile
 100 105 110
 Val Leu Ala Thr Lys Val Tyr Gln Pro Met Gly Pro Gly Pro Asn Asp
 115 120 125
 Arg Arg Leu Ser Ala Tyr His Ile Arg Lys Ala Cys Glu Asp Ser Leu
 130 135 140
 Arg Arg Leu Lys Thr Asp His Ile Asp Val Tyr Gln Met His His Ile
 145 150 155 160
 Asp Arg Tyr Thr Pro Trp Glu Glu Ile Trp Gln Ala Met Glu Leu Leu
 165 170 175
 Val Gln Gln Gly Lys Val Leu Tyr Ile Gly Ser Ser Asn Phe Ala Gly
 180 185 190
 Trp Asp Ile Ala Thr Ala Gln Ser Val Ala Thr Ala Arg His Ser Leu
 195 200 205
 Gly Leu Val Ala Glu Gln Ser Leu Tyr Asn Leu Thr Ala Arg Thr Val
 210 215 220
 Glu Leu Glu Val Ile Pro Ala Cys Arg His Phe Gly Leu Gly Leu Ile
 225 230 235 240
 Pro Trp Ser Pro Leu Ala Gly Gly Leu Leu Gly Gly Val Leu Lys Lys

245 250 255
 Met Glu Ser Gly Arg Arg Ala Arg Pro Ala Phe Ser Arg Leu Ile Glu
 260 265 270
 Gln Tyr Arg Pro Gln Leu Glu Ala Tyr Glu Gly Leu Cys Glu Asp Leu
 275 280 285
 Asp Glu Thr Pro Ser Asp Val Ala Leu Ala Trp Leu Leu Gln Asn Pro
 290 295 300
 Val Val Thr Ala Pro Leu Ile Gly Pro Arg Thr Val Glu Gln Leu Arg
 305 310 315 320
 Glu Ala Leu His Ala Thr Thr Ile Thr Leu Ser Asp Asp Thr Met Ser
 325 330 335
 Cys Leu Asp Glu Ile Trp Pro Gly Pro Gly Gly Glu Ala Pro Gln Ala
 340 345 350
 Tyr Ala Trp
 355

<210> 6928

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 6928

Lys Arg Glu Ser Pro Val Val Ser Val Cys Lys Val Glu Ile Gln Asn
 1 5 10 15
 Phe Arg Ser Ile Arg Leu Leu Thr Trp Leu Pro Ser Pro Gly Leu Asn
 20 25 30
 Cys Leu Ile Gly Pro Gly Asp Ser Gly Lys Thr Thr Ile Leu Asp Ala
 35 40 45
 Ile Asp Leu Cys Leu Gly Ala Arg Arg Asn Val Ser Phe Ser Asp Thr
 50 55 60
 Asp Phe Phe Gly Leu Asp Val Thr Gln Pro Ile Ser Ile Thr Leu Ala
 65 70 75 80
 Leu Gly Ser Leu Pro Asp Ala Leu Arg Thr Met Glu Thr Tyr Gly Asn
 85 90 95
 Phe Leu Tyr Pro Gly Val Lys Ala Val Ser Gly Asp Ile Glu Lys Cys
 100 105 110
 Cys Tyr Ala Gly Asn Arg Ile Thr Thr Leu Asn Asn Leu Phe Asp Cys
 115 120 125
 Phe Asn Phe Lys Arg Phe Arg Ile Thr Leu Thr Ala His Gly His His
 130 135 140
 Ser Leu Ser His Leu Lys
 145 150

<210> 6929

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 6929

Glu His Ile Met Asn Asn Ala Leu Tyr Asn Gln Ile Arg Ile Phe Gln
 1 5 10 15
 Ser Ile Ala Arg Glu Gly Asn Ile Ser Ala Ala Ala Arg Lys Leu Glu
 20 25 30
 Ile Thr Pro Pro Ser Val Ser Asn Ala Leu Lys Leu Leu Glu Asp His
 35 40 45
 Ile Gly His Pro Leu Phe Val Arg Thr Thr Arg Arg Ile Glu Leu Thr
 50 55 60
 Glu Thr Gly Gln Leu Leu Leu Glu Gln Thr Ala Ala Ala Val Glu Ser
 65 70 75 80
 Leu Glu His Ser Leu Glu Ser Ile Arg Asp Gln Asn Gln Glu Pro Ser
 85 90 95

Gly Ile Val Arg Ile Thr Leu Ser Arg Phe Ala Tyr Leu Leu Ile Leu
 100 105 110
 Lys Pro Ala Met Ala Lys Phe Cys Gln Gln Tyr Pro Gly Ile Gln Leu
 115 120
 Glu Ile Ser Val Tyr Asp Gly Thr Val Asn Val Ile Glu Glu Arg Phe
 130 135 140
 Asp Leu Gly Ile Arg Phe Gly Asp Ile Leu Glu Gly Gly Val Val Ala
 145 150 155 160
 Arg Pro Leu Met Lys Pro Phe Arg Glu Gly Leu Tyr Ala Ser Ser Ala
 165 170 175
 Tyr Ile Ser Glu His Gly Met Pro Glu Val Pro Ala Asp Leu Ser Gln
 180 185 190
 His Lys Leu Ile Gly Tyr Arg Phe Ile Thr Asn Asn Arg Ile Leu Pro
 195 200 205
 Leu Ile Leu Asn Asp Arg Gly Glu Gln Leu Thr Val Glu Met Pro Gly
 210 215 220
 Gln Leu Ile Ser Asn Asp Ile Asp Val Met Ala Asp Gly Ile Arg Asn
 225 230 235 240
 Gly Leu Gly Ile Gly Arg Leu Phe Glu Pro Ile Leu Gln Leu Gln Pro
 245 250 255
 Asp Arg Glu Arg Phe Ile Pro Val Met Glu Ser Tyr Trp Lys Thr Tyr
 260 265 270
 Pro Pro Val Tyr Leu Tyr Tyr Pro Lys Asn Ala Gly Lys Thr Lys Arg
 275 280 285
 Val Lys Ala Leu Ile Asp Phe Leu Ile Ser Ala Thr Gly Arg
 290 295 300

<210> 6930

<211> 430

<212> PRT

<213> *Enterobacter cloacae*

<400> 6930

Ala Val Ser Thr Lys Ser Gly Pro Asp Pro Gly Glu Lys Arg Pro Arg
 1 5 10 15
 Leu Met Pro Gly Asn Asp Gln Ile Asn Glu Ser Phe Leu Arg Tyr Arg
 20 25 30
 Glu Phe Gln Phe Met Ser Lys Met Met His Asp Gln His Ser Ala Ser
 35 40 45
 Val Pro Ala Ser Arg Asp Arg Arg Asn Phe Leu Ile Ala Gly Ala Gly
 50 55 60
 Leu Ala Leu Ala Ala Thr Leu Gly Arg Ser Gly Ala Val Met Ala
 65 70 75 80
 Lys Pro Ala Gly Gln Asp Thr Ser Ser Ala Pro Ser Gly Ala Val Pro
 85 90 95
 Val Gln Lys Glu Thr Leu Thr Thr Arg Lys Leu Gly Ser Leu Glu Val
 100 105 110
 Ser Ser Met Gly Leu Gly Cys Leu Pro Met Val Gly Tyr Tyr Gly Gly
 115 120 125
 Gly Pro Arg Asp Arg Lys Ala Met Val Ser Leu Ile Arg Ala Ala Phe
 130 135 140 145
 Glu Gln Gly Ile Thr Phe Phe Asp Thr Ala Glu Val Tyr Gly Pro His
 150 155 160
 Leu Ser Glu Glu Phe Val Gly Glu Ala Leu Ala Pro Val Arg Asp Arg
 165 170 175
 Val Val Ile Ala Thr Lys Phe Gly Phe Gly Val Glu Glu Gly Lys Pro
 180 185 190
 Thr Ser Leu Asn Ser His Pro Asp His Ile Arg Arg Ala Val Glu Gly
 195 200 205
 Ser Leu Lys Arg Leu Lys Thr Asp His Ile Asp Leu Leu Tyr Gln His
 210 215 220

Arg Pro Asp Pro Asn Val Pro Ile Glu Asp Val Ala Glu Thr Val Lys
 225 230 235 240
 Ala Leu Ile Arg Glu Gly Lys Val Lys His Trp Gly Leu Ser Glu Ala
 245 250 255
 Ser Ala Gly Thr Ile Arg Arg Ala His Ala Val Leu Pro Val Thr Ala
 260 265 270
 Val Gln Ser Glu Tyr Ala Met Trp Trp Arg Glu Pro Glu Thr Arg Ile
 275 280 285
 Phe Pro Thr Leu Glu Glu Leu Gly Ile Gly Phe Val Pro Tyr Cys Pro
 290 295 300
 Thr Ala Arg Ser Phe Leu Ala Gly Ala Val Asn Pro Ser Gln Arg Phe
 305 310 315 320
 Asp Ser Thr Asp Arg Arg His Asn Leu Pro Arg Phe Gln Pro Asp Ala
 325 330 335
 Leu Ala Lys Asn Met Val Leu Leu Glu Phe Ala Gln Ser Trp Ala Arg
 340 345 350
 Arg Lys Asn Thr Thr Pro Val Gln Phe Ala Leu Ala Trp Val Met Ala
 355 360 365
 Gln Arg Pro Trp Ile Val Pro Ile Pro Gly Thr Thr Gln Tyr Pro His
 370 375 380
 Leu Ile Glu Asn Ser Gly Ala Pro Gln Val Arg Leu Thr Asp Ser Glu
 385 390 395 400
 Leu Arg Glu Ile Asp Ala Ala Leu Ala Arg Ile Pro Leu Gln Gly Gly
 405 410 415
 Arg Ala Asp Pro Phe Thr Glu Ser Gln Phe Asp Lys Ser
 420 425 430

<210> 6931

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 6931

Val Lys Ser Pro Ser Val Phe Leu Pro Gly Ile Asn His Met Asn Gly
 1 5 10 15
 Leu Asn His Asn Ala Leu Thr Arg Ser Ala Val Pro Ile Pro Pro Cys
 20 25 30
 Glu Arg Ser Leu Gln Thr Val Glu Ala Gln Pro Tyr Phe Ser Val Ser
 35 40 45
 Glu Ala Ser Leu Val Leu Glu Gly Ala Val Phe Asp Arg Asn Asn Asn
 50 55 60
 Leu Leu Phe Val Asp Ala Thr Gly Arg Val Phe Lys Leu Thr Pro
 65 70 75 80
 Glu Arg Gln Leu Ser Ile Val Leu Lys Glu Asn Thr Phe Gly Ala Ser
 85 90 95
 Gly Leu Ala Val His Lys Asp Gly Arg Ile Phe Ile Ala Ser Val Gly
 100 105 110
 Asp Met Gln Arg Gly Ser Val Arg Ala Ile Glu Pro Asp Gly Thr Arg
 115 120 125
 Glu Gln Met Ile Val Asp Pro Glu Gly Gly Phe Leu Ala Asn Asp Leu
 130 135 140
 Val Phe Asp Asn Gln Gly Gly Phe Tyr Phe Thr Asp Ser Arg Gly Asn
 145 150 155 160
 Ser Ala Asp Pro Gln Gly Gly Val Phe Tyr Val Ser Pro Asn Val Gly
 165 170 175
 Ser Ile His Ala Ile Leu Pro Gly Leu Ala Val Gly Asn Gly Leu Ala
 180 185 190
 Ile Asp Pro Asp Gly Thr Leu Ile Trp Ala Thr Glu His Ala Lys Asn
 195 200 205
 Arg Leu His Arg Val Arg Leu Ser Asp Ala Thr Thr Ile Ala Pro Phe
 210 215 220

Gly Ser Val Val Thr Tyr Gln Phe Thr Gly Pro Ala Pro Asp Gly Ala
 225 230 240
 Arg Val Asp Ser Glu Gly Asn Val Tyr Val Ala Ile Ser Gly Gln Gly
 245 255
 Arg Ile Met Val Phe Asn Arg Asn Gly Leu Pro Ile Gly Gln Ile Val
 260 265 270
 Leu Pro Asp Arg Asp Lys Gly Arg Asn Leu Lys Ser Thr Ser Leu Ala
 275 280 285
 Ile Arg Pro Gly His His Glu Leu Phe Ile Val Thr Asn Ser Gly Thr
 290 295 300
 Glu Pro Gly Gly Ala Met Ile Phe Arg Ser Gly Ala Phe Ala Pro Ala
 305 310 315 320
 Pro Leu Pro Phe
 325

<210> 6932

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 6932

Arg Leu Ser Gly Lys Pro Ala Trp Cys Lys Ala Thr Cys Pro Arg Glu
 1 5 10 15
 Lys Gly Asp Lys Ile Glu Ser Thr Cys Gln Ile Val Ile Arg Cys Ala
 20 25 30
 Leu Phe Gly Arg Val Lys Phe Pro Met Lys Asn Ile Pro Phe Trp Gln
 35 40 45
 Ser Lys Thr Phe Asp Asp Met Thr Asp Ala Glu Trp Glu Ser Leu Cys
 50 55 60
 Asp Gly Cys Gly Gln Cys Cys Leu His Lys Leu Met Asp Glu Asp Ser
 65 70 75 80
 Asp Glu Ile Tyr Phe Thr Asn Val Ala Cys Lys Gln Leu Asn Ile Lys
 85 90 95
 Thr Cys Gln Cys Arg Asn Tyr Glu Arg Arg Phe Glu Tyr Glu Pro Asp
 100 105 110
 Cys Ile Lys Leu Thr Arg Glu Asn Leu Pro Thr Phe Glu Trp Leu Pro
 115 120 125
 His Thr Cys Ala Tyr Arg Leu Leu Ala Glu Gly Lys Asp Leu Pro Thr
 130 135 140
 Trp His Pro Leu Leu Thr Gly Ser Lys Ala Ala Met His Gly Glu Arg
 145 150 155 160
 Ile Ser Val Arg His Ile Ala Val Lys Glu Ser Glu Val Arg Asp Trp
 165 170 175
 Glu Asp His Ile Met Asn His Pro Asn Arg
 180 185

<210> 6933

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 6933

Asp Lys Thr Ser Val Tyr Ala Lys Met Ala Ala Glu Arg Gly Ile Lys
 1 5 10 15
 Pro Phe Val Asn Phe Ile Lys Met Lys Arg Arg Ser Leu Phe Ser Val
 20 25 30
 Ser Ala Ala Leu Ser Ala Ser Ala Arg Leu Trp Tyr Asp Glu Cys Asn
 35 40 45
 Leu Leu Lys Leu Cys Asn Gly Asn Leu Thr Met Val Ile Lys Ala Gln
 50 55 60
 Ser Pro Ala Gly Phe Ala Glu Glu Tyr Ile Ile Glu Ser Ile Trp Asn

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65          70          75          80
Asn Arg Phe Pro Ala Gly Ser Ile Leu Pro Ala Glu Arg Glu Leu Ser
      85          90          95
Glu Leu Ile Gly Val Thr Arg Thr Thr Leu Arg Glu Val Leu Gln Arg
      100          105          110
Leu Ala Arg Asp Gly Trp Leu Thr Ile Gln His Gly Lys Pro Thr Lys
      115          120          125
Val Asn Asn Phe Trp Glu Thr Ser Gly Leu Asn Ile Leu Glu Thr Leu
      130          135          140
Ala Arg Leu Asp His Glu Ser Val Pro Gln Leu Ile Asp Asn Leu Leu
145          150          155          160
Ser Val Arg Thr Asn Ile Ala Thr Ile Phe Ile Arg Thr Ala Phe Arg
      165          170          175
Gln His Pro Glu Asp Ala Leu Lys Val Leu Ala Thr Ala Asn Glu Val
      180          185          190
Glu Asp His Ala Asp Ala Phe Ala Thr Leu Asp Tyr Asn Val Phe Arg
      195          200          205
Gly Leu Ala Phe Ala Ser Gly Asn Pro Val Tyr Gly Leu Ile Leu Asn
      210          215          220
Gly Met Lys Gly Leu Tyr Thr Arg Ile Gly Arg His Tyr Phe Ala Asn
225          230          235          240
Pro Glu Ala Arg Ser Leu Ala Leu Gly Phe Tyr His Lys Leu Ser Lys
      245          250          255
Leu Cys Thr Glu Gly Leu His Asp Gln Val Tyr Glu Thr Val Arg Arg
      260          265          270
Tyr Gly His Asp Ser Gly Glu Ile Trp His Arg Met Gln Lys Thr Leu
      275          280          285
Pro Gly Asp Leu Ala Ile Gln Gly Arg
      290          295

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<210> 6934

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 6934

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Leu Asp Asp Cys Ser Phe Ala His Asn Gly Val Ala Met Arg Val Val
1      5      10      15
Ile Leu Gly Ser Gly Val Val Gly Val Thr Ser Ala Trp Tyr Leu Ser
      20      25      30
Gln Ala Gly His Glu Val Thr Val Ile Asp Arg Glu Ser Gly Pro Ala
      35      40      45
Leu Glu Thr Ser Ala Ala Asn Ala Gly Gln Ile Ser Pro Gly Tyr Ala
      50      55      60
Ala Pro Trp Ala Ala Pro Gly Val Pro Leu Lys Ala Ile Lys Trp Met
65          70          75          80
Phe Gln Arg His Ala Pro Leu Ala Ile Ser Leu Asp Gly Thr Gln Phe
      85          90          95
Gln Leu Lys Trp Met Trp Gln Met Leu Arg Asn Cys Asp Thr Arg His
      100          105          110
Tyr Met Glu Asn Lys Gly Arg Met Val Arg Leu Ala Glu Tyr Ser Arg
      115          120          125
Asp Cys Leu Lys Ala Leu Arg Ala Ser Thr Gly Ile Glu Tyr Glu Gly
      130          135          140
Arg Gln Gly Gly Thr Leu Gln Leu Phe Arg Thr Ala Gln Gln Tyr Glu
145          150          155          160
Asn Ala Thr Arg Asp Ile Ala Val Leu Glu Asp Ala Gly Val Pro Tyr
      165          170          175
Gln Leu Leu Glu Ala Ser Gln Leu Ala Gln Val Glu Pro Ala Leu Ala
      180          185          190
Glu Val Ala His Lys Leu Thr Gly Gly Leu Arg Leu Pro Asn Asp Glu

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195	200	205
Thr Gly Asp Cys Gln Leu Phe	Thr Gln Arg Leu Ala Arg	Met Cys Glu
210	215	220
Gln Ala Gly Val Lys Phe	Arg Phe Asn Thr Ser	Val Asp Lys Leu Leu
225	230	235
Ser Glu Gly Glu Lys Ile	Tyr Gly Val Lys Cys	Gly Glu Glu Val Ile
245	250	255
Lys Ala Asp Ala Tyr Val	Met Ala Phe Gly	Ser Tyr Ser Thr Ala Met
260	265	270
Leu Lys Gly Ile Leu Asp	Ile Pro Val Tyr Pro	Leu Lys Gly Tyr Ser
275	280	285
Leu Thr Ile Pro Val Lys	Glu Asp Ser Gly Ala	Pro Val Ser Thr Ile
290	295	300
Leu Asp Glu Thr Tyr Lys	Ile Ala Ile Thr Arg	Phe Asp Asn Arg Ile
305	310	315
Arg Val Gly Gly Met Ala	Glu Ile Val Gly Phe	Asn Thr Glu Leu Leu
325	330	335
Lys Pro Arg Arg Glu Thr	Leu Glu Met Val Val	Gly Asp Leu Phe Pro
340	345	350
Arg Gly Gly Phe Ile Glu	Gln Ala Thr Phe Trp	Thr Gly Leu Arg Pro
355	360	365
Met Thr Pro Asp Gly Thr	Pro Ile Val Gly Arg	Thr Pro Tyr Lys Asn
370	375	380
Leu Trp Thr Asn Thr Gly	His Gly Thr Leu Gly	Trp Thr Met Ala Cys
385	390	395
Gly Ser Gly Gln Leu Leu	Ser Asp Leu Ile Ser	Gly Arg Thr Pro Ala
405	410	415
Ile Pro Phe Asp Asp Leu	Ser Ala Ala Arg Tyr	Gln Ser Gly Phe Thr
420	425	430
Pro Ser Arg Pro Gln His	Leu His Gly Ala His	Asn 445
435	440	

<210> 6935

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 6935

Gly Val Ala Met Ser Arg	Pro Ile Leu Ala Gln	Leu Asp Leu Gln Ala
1	5	10
Leu Lys Asp Asn Leu Gln	Ile Val Arg Ala Ala	Pro Gly Ser Arg
20	25	30
Val Trp Ser Val Val Lys	Ala Asn Ala Tyr Gly	His Gly Ile Asp Arg
35	40	45
Ile Trp Ser Ala Leu Gly	Ala Thr Asp Gly Phe	Ala Leu Leu Asn Leu
50	55	60
Glu Glu Ala Ile Leu Leu	Arg Glu Arg Gly Trp	Lys Gly Pro Ile Leu
65	70	75
Leu Leu Glu Gly Phe Phe	His Ala Gln Asp Leu	Pro Leu Leu Asp Lys
85	90	95
Tyr Arg Leu Thr Thr Ser	Val His Ser Asn Trp	Gln Ile Lys Ala Ile
100	105	110
Gln Asp Ala Lys Leu His	Ala Pro Leu Asp Ile	Tyr Leu Lys Val Asn
115	120	125
Ser Gly Met Asn Arg Leu	Gly Phe Gln Pro Glu	Arg Val His Thr Val
130	135	140
Trp Gln Gln Leu Arg Ala	Leu Lys Asn Val Gly	Glu Met Thr Leu Met
145	150	155
Ala His Phe Ala Asp Ala	Glu Lys Pro Asp Gly	Ile Ala Asp Ala Met
165	170	175
Val Arg Ile Glu Gln Ala	Ala Glu Gly Leu Asp	Cys Pro Arg Ser Leu

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      180                      185                      190
Ser Asn Ser Ala Ala Thr Leu Trp His Pro Glu Ala His Tyr Asn Trp
      195                      200                      205
Val Arg Pro Gly Ile Val Leu Tyr Gly Ala Ser Pro Ser Gly Gln Trp
      210                      215                      220
Gln Asp Ile Ala Asn Ser Gly Leu Lys Pro Val Met Thr Leu Arg Ser
      225                      230                      235
Glu Ile Ile Gly Val Gln Thr Leu Lys Ala Gly Asp Thr Val Gly Tyr
      240                      245                      250
Gly Ser Arg Tyr Arg Ala Ala Gly Glu Gln Arg Ile Gly Ile Val Ala
      255                      260                      265
Gly Gly Tyr Ala Asp Gly Tyr Pro Arg Ile Ala Pro Ser Gly Thr Pro
      270                      275                      280
Val Trp Val Asp Gly Val Arg Thr Gly Thr Val Gly Thr Val Ser Met
      285                      290                      295
Asp Met Leu Ala Ile Asp Leu Thr Pro Cys Pro Gln Ala Gly Ile Gly
      300                      305                      310
Ser Pro Val Glu Leu Trp Gly Asn Glu Val Lys Ile Asp Asp Val Ala
      315                      320                      325
Ala Ala Ala Gly Thr Val Gly Tyr Glu Leu Met Cys Ala Leu Ala Pro
      330                      335                      340
Arg Val Pro Val Val Thr Val
      345                      350                      355

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<210> 6936

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 6936

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Pro Ala Ile Arg Ile Asp Asp Val Lys Leu Arg Trp Phe Ala Phe Leu
      5                      10                      15
Ile Val Leu Leu Ala Gly Cys Ser Ser Lys His Asp Tyr Gln Asn Pro
      20                      25                      30
Pro Trp Asn Pro Glu Val Pro Val Lys Arg Ala Met Gln Trp Met Pro
      35                      40                      45
Ile Ser Glu Gln Ala Gly Lys Ala Trp Gly Val Ser Pro Arg Leu Ile
      50                      55                      60
Thr Ala Ile Ile Ala Val Glu Ser Gly Gly Asn Pro Thr Leu Val Ser
      65                      70                      75
Lys Ser Asn Ala Val Gly Leu Met Gln Leu Lys Ala Ser Thr Ala Gly
      80                      85                      90
Arg Glu Val Tyr Arg Tyr Met Gly Trp Lys Gly Gln Pro Ser Thr Ser
      95                      100                      105
Glu Leu Lys Asn Pro Glu Arg Asn Ile Ser Met Gly Thr Ala Tyr Leu
      110                      115                      120
Ser Ile Leu Glu His Gly Ile Leu Lys Gly Ile Asp Asp Pro Glu Val
      125                      130                      135
Met Gln Tyr Ala Leu Val Val Ser Tyr Val Asn Gly Ala Gly Ala Leu
      140                      145                      150
Leu Arg Thr Phe Ser Ser Asp Arg Lys Glu Ala Ile Glu Glu Ile Asn
      155                      160                      165
Asp Met Asp Lys Asp Glu Phe Phe Glu His Val Val Lys Asn His Pro
      170                      175                      180
Ser Ala Gln Ala Pro Arg Tyr Ile Trp Lys Val Gln Lys Ala Met Asp
      185                      190                      195
Ala Met
      200                      205                      210

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<210> 6937

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 6937

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Pro Arg Asp Ser Leu Ser Ser Ile Glu Glu Pro Ser Gly Val Ser Ser
1      5      10
Tyr Ser Glu Gln Phe Leu Lys Gln Asn Pro Leu Ala Val Leu Gly Val
20      25      30
Leu Arg Asp Leu Lys Lys Gly Glu Val Pro Leu Arg Ile Asn Trp Ser
35      40      45
Thr Ser Gln Phe Ile Ser Lys Ile Leu Asp Val Thr Ala Glu His Leu
50      55      60
Ile Val Asp Leu Gly Ser Gln Ser Asp Glu Asn Arg Ala Ala Leu Gln
65      70      75
Ala Glu Asn Leu Ser Val Met Ala Glu Thr Gln Gly Ala Lys Val Glu
85      90      95
Phe Val Leu Pro Arg Leu Thr Ala Ile Ala Tyr Gln Asp Leu Pro Ala
100     105     110
Phe Ile Ala Pro Leu Pro Ala Asn Leu Trp Phe Val Gln Arg Arg Glu
115     120     125
Phe Phe Arg Ile Ser Ala Pro Leu His Pro Ala Tyr Phe Cys Lys Ala
130     135     140
Lys Met Pro Asp Lys Lys Glu Ile Arg Phe Arg Leu Phe Asp Leu Ser
145     150     155
Leu Gly Gly Met Gly Ala Leu Met Asp Thr Pro Lys Pro Glu Gly Leu
165     170     175
Val Glu Gly Met Arg Phe Ser Gln Ile Glu Leu Asp Met Gly Gly Trp
180     185     190
Gly Arg Phe Trp Phe Asp Ala Gln Leu Ile Ala Ile Ser Glu Arg Lys
195     200     205
Val Val Asp Ser Lys Asn Glu Thr Ile Thr Thr Pro Arg Leu Ser Phe
210     215     220
Arg Phe Leu Asn Val Gly Pro Gly Ala Glu Arg Glu Leu Gln Arg Ile
225     230     235
Ile Phe Ser Leu Glu Arg Glu Ala Arg Glu Arg Ala Asn Lys Val Arg
245     250     255

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<210> 6938

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 6938

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Ile Leu Ile Gln Gln Gly Ile Ala Met Pro Gln Phe His Leu Ile Ala
1      5      10
Pro Ser Gly Tyr Cys Ile Asn Gln Glu Ala Ala Gln Arg Gly Val Gln
20      25      30
Arg Leu Leu Glu Met Gly His Gln Val Glu Asn Gln Thr Ile Ile Pro
35      40      45
Arg Arg Met Gln Arg Phe Ala Gly Thr Glu Ala Gln Arg Leu Ser Asp
50      55      60
Ile Asn Ser Leu Ala Thr Leu Glu Gly Glu Asn Thr Ile Val Leu Ala
65      70      75
Val Arg Gly Gly Tyr Gly Ala Ser Arg Leu Leu Glu Ser Ile Asp Trp
85      90      95
Ala Gly Leu Ala Ala Arg Gln Gln Gln Asp Pro Leu Leu Ile Cys Gly
100     105     110
His Ser Asp Phe Thr Ala Ile Gln Leu Gly Leu Leu Ala Leu His Asn
115     120     125

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Val Ile Thr Phe Ser Gly Pro Met Leu Ala Gly Asn Phe Gly Ala Pro
 130 135 140
 Glu Leu Asp Ala Phe Thr Gln Asp His Phe Trp Arg Ala Leu Gln Asn
 145 150 155 160
 Pro Thr Phe Thr Ile Glu Trp Gln Gly Asn Gly Pro His Trp Glu Cys
 165 170 175
 Glu Gly Gln Leu Trp Gly Gly Asn Leu Ala Met Leu Val Ser Leu Ile
 180 185 190
 Gly Thr Pro Trp Leu Pro Gln Ile Thr Asp Gly Ile Leu Val Leu Glu
 195 200 205
 Asp Ile Asn Glu His Pro Phe Arg Val Glu Arg Met Leu Leu Gln Leu
 210 215 220
 Ser His Ala Gly Ile Leu Asp Arg Gln Ser Ala Ile Val Leu Gly Ser
 225 230 235 240
 Phe Ser Gly Ser Ala Pro Asn Asp Tyr Asp Ala Gly Tyr Ser Leu Glu
 245 250 255
 Thr Met Ile Asp Phe Ile Arg Ser Arg Leu Asp Ile Pro Val Ile Ala
 260 265 270
 Gly Leu Asp Phe Gly His Glu Gln Gln Thr Val Thr Leu Pro Leu Gly
 275 280 285
 Ala Arg Ala His Leu Val His Asp Asn Ser Gly Ser Arg Leu Thr Ile
 290 295 300
 Ser Gly His Pro Val Leu Lys Ala
 305 310

<210> 6939

<211> 184

<212> PRT

<213> Enterobacter cloacae

<400> 6939

Ala Cys Ser Arg Glu Met Ile Met Leu Arg Phe Leu Asn Gln Cys Ser
 1 5 10 15
 Arg Gly Arg Gly Ala Trp Leu Leu Met Ala Leu Thr Ala Phe Ala Leu
 20 25 30
 Glu Met Val Ala Leu Trp Phe Gln His Val Met Gly Leu Lys Pro Cys
 35 40 45
 Val Leu Cys Ile Tyr Glu Arg Cys Ala Leu Phe Gly Ile Met Gly Ala
 50 55 60
 Gly Leu Val Gly Ala Ile Ala Pro Lys Ser Pro Leu Arg Tyr Ala Ala
 65 70 75 80
 Ile Ala Ile Trp Leu Tyr Ser Ala Gly Lys Gly Ile Ala Leu Ala Trp
 85 90 95
 Glu His Thr Gln Met Gln Leu His Pro Ser Pro Phe Met Thr Cys Asp
 100 105 110
 Phe Ala Ala Arg Phe Pro Ser Trp Leu Pro Leu Asp Lys Trp Leu Pro
 115 120 125
 Gln Val Phe Val Ala Ser Gly Asp Cys Ser Val Arg Gln Trp Glu Phe
 130 135 140
 Leu Thr Leu Glu Met Pro Gln Trp Leu Val Gly Ile Phe Val Ala Tyr
 145 150 155 160
 Phe Val Val Ala Leu Leu Val Leu Ile Ala Gln Pro Phe Lys Pro Lys
 165 170 175
 Lys Arg Asp Leu Phe Gly Arg
 180

<210> 6940

<211> 584

<212> PRT

<213> Enterobacter cloacae

<400> 6940

Gly Gly Ser Lys Thr Thr Leu Gly Ala Thr Ala Ile Ile Ser Leu Phe
 1 5 10 15
 Ile Leu Gly Ser Ile Leu Val Thr Phe Ser Ile Leu Leu Ser Ser Phe
 20 25 30
 Ser Ser Arg Leu Gly Ile Pro Ile Leu Val Ile Phe Leu Ala Ile Gly
 35 40 45
 Met Leu Ala Gly Ile Asp Gly Ile Gly Gly Ile Pro Phe Asp Asn Tyr
 50 55 60
 Pro Phe Ala Tyr Met Val Ser Asn Leu Ala Leu Ala Val Ile Leu Leu
 65 70 75 80
 Asp Gly Gly Met Arg Thr Gln Ala Ser Ser Phe Arg Val Ala Leu Gly
 85 90 95
 Pro Ala Leu Ser Leu Ala Thr Val Gly Val Leu Ile Thr Ser Gly Leu
 100 105 110
 Thr Gly Met Met Ala Ala Trp Leu Phe Asn Leu Asp Ile Met Glu Gly
 115 120 125
 Leu Leu Ile Gly Ala Ile Val Gly Ser Thr Asp Ala Ala Val Phe
 130 135 140
 Ser Leu Leu Gly Gly Lys Gly Leu Asn Glu Arg Val Gly Ser Thr Leu
 145 150 155 160
 Glu Ile Glu Ser Gly Ser Asn Asp Pro Met Ala Val Phe Leu Thr Ile
 165 170 175
 Thr Leu Ile Glu Met Ile Gln Gln His Glu Thr Gly Leu Ser Trp Met
 180 185 190
 Phe Ala Trp His Ile Leu Gln Gln Phe Gly Leu Gly Ile Ile Ile Gly
 195 200 205
 Leu Gly Gly Gly Tyr Leu Leu Gln Gln Thr Ile Asn Arg Ile Thr Leu
 210 215 220
 Pro Ser Gly Leu Tyr Pro Leu Leu Ala Leu Ser Gly Gly Ile Leu Ile
 225 230 235 240
 Phe Ala Val Thr Thr Ala Leu Asp Gly Ser Gly Ile Leu Ala Val Tyr
 245 250 255
 Leu Cys Gly Phe Leu Leu Gly Asn Arg Pro Ile Arg Asn Arg His Ala
 260 265 270
 Ile Leu Gln Asn Phe Asp Gly Leu Ala Trp Leu Ala Gln Ile Ala Met
 275 280 285
 Phe Leu Val Leu Gly Leu Leu Val Thr Pro Ser Asp Leu Leu Pro Ile
 290 295 300
 Ala Val Pro Ala Leu Leu Leu Ser Ala Trp Met Ile Phe Phe Ala Arg
 305 310 315 320
 Pro Leu Ser Val Phe Ala Gly Leu Leu Pro Phe Arg Gly Phe Asn Leu
 325 330 335
 Arg Glu Arg Ile Phe Ile Ser Trp Val Gly Leu Arg Gly Ala Val Pro
 340 345 350
 Ile Ile Leu Ala Val Phe Pro Met Met Ala Gly Leu Asp Asn Ala Arg
 355 360 365
 Leu Phe Phe Asn Val Ala Phe Phe Val Val Leu Val Ser Leu Leu Phe
 370 375 380
 Gln Gly Thr Ser Leu Gly Trp Ala Ala Lys Lys Ala Lys Val Val Val
 385 390 395 400
 Pro Pro Ile Gly Trp Pro Val Ser Arg Val Gly Leu Asp Ile His Pro
 405 410 415
 Glu Asn Pro Trp Glu Gln Phe Val Tyr Gln Leu Ser Ala Asp Lys Trp
 420 425 430
 Cys Val Gly Ala Ser Leu Arg Asp Leu His Met Pro Ala Glu Thr Arg
 435 440 445
 Ile Ala Ala Leu Phe Arg Asp Asn Ala Leu Leu His Pro Thr Gly Ser
 450 455 460
 Thr Arg Leu Arg Glu Asn Asp Ile Leu Cys Val Ile Gly Arg Glu Arg
 465 470 475 480

Asp Leu Pro Ala Leu Gly Lys Leu Phe Ser Gln Ser Pro Pro Val Ala
 485 490 495
 Leu Asp Gln Arg Phe Phe Gly Asp Phe Ile Leu Glu Ala Ser Ala Arg
 500 505 510
 Phe Ala Asp Val Ala Leu Ile Tyr Gly Leu Glu Gly Gly Leu Glu Asn
 515 520 525
 Arg Asp Asn Gln Gln Thr Leu Gly Glu Ile Ile Gln Gln Leu Leu Gly
 530 535 540
 Ala Ala Pro Val Val Gly Asp Gln Val Glu Phe Ala Gly Met Ile Trp
 545 550 555 560
 Thr Val Ala Glu Lys Glu Asp Asn Ala Val Arg Lys Val Gly Val Arg
 565 570 575
 Pro Met Glu Glu Glu Ala Glu
 580

<210> 6941

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 6941

Lys Glu Ala Leu Gln Ser Glu Arg Ala Thr Asn Asn Glu Gly Ala Leu
 1 5 10 15
 Met Ala Thr Leu Asp Ser Met Ser Arg Asp Ser Thr Arg Leu Ser Asp
 20 25 30
 Gly Pro Asp Trp Thr Phe Glu Leu Leu Asp Val Tyr Leu Ala Glu Ile
 35 40 45
 Asp Arg Val Ala Lys Leu Tyr Arg Leu Asp Thr Tyr Pro His Gln Ile
 50 55 60
 Glu Val Ile Thr Ser Glu Gln Met Met Asp Ala Tyr Ser Ser Val Gly
 65 70 75 80
 Met Pro Ile Asn Tyr Pro His Trp Ser Phe Gly Lys Lys Phe Ile Glu
 85 90 95
 Thr Glu Arg Leu Tyr Lys His Gly Gln Gln Gly Leu Ala Tyr Glu Ile
 100 105 110
 Val Ile Asn Ser Asn Pro Cys Ile Ala Tyr Leu Met Glu Glu Asn Thr
 115 120 125
 Ile Thr Met Gln Ala Leu Val Met Ala His Ala Cys Tyr Gly His Asn
 130 135 140
 Ser Phe Phe Lys Asn Asn Tyr Leu Phe Arg Ser Trp Thr Asp Ala Ser
 145 150 155 160
 Ser Ile Val Asp Tyr Leu Ile Phe Ala Arg Asn Tyr Ile Thr Asp Cys
 165 170 175
 Glu Glu Arg Tyr Gly Val Asp Glu Val Glu Lys Leu Leu Asp Ser Cys
 180 185 190
 His Ala Leu Met Asn Tyr Gly Val Asp Arg Tyr Lys Arg Pro Gln Lys
 195 200 205
 Ile Ser Leu Gln Glu Glu Lys Ala Arg Gln Lys Ser Arg Glu Glu Tyr
 210 215 220
 Leu Gln Ser Gln Val Asn Met Leu Trp Arg Thr Leu Pro Lys Arg Glu
 225 230 235 240
 Glu Glu Lys Thr Val Ala Glu Ala Arg Arg Tyr Pro Ser Glu Pro Gln
 245 250 255
 Glu Asn Leu Leu Tyr Phe Met Glu Lys Asn Ala Pro Leu Leu Glu Pro
 260 265 270
 Trp Gln Arg Glu Ile Leu Arg Ile Val Arg Lys Val Ser Gln Tyr Phe
 275 280 285
 Tyr Pro Gln Lys Gln Thr Gln Val Met Asn Glu Gly Trp Ala Thr Phe
 290 295 300
 Trp His Tyr Thr Ile Leu Asn His Leu Tyr Asp Glu Gly Lys Val Ser
 305 310 315 320

<210>	6942
<211>	540
<212>	PRT
<213>	Enterobacter cloacae
<400>	6942
Cys	Leu Val Leu Phe Asp Gly Glu Arg Thr Ser Val Val Glu Ile Ser
1	5 10 15
Phe	Gly Arg Ala Leu Trp Arg Asn Phe Leu Gly Gln Ser Pro Asp Trp
	20 25 30
Tyr	Lys Leu Thr Leu Leu Val Phe Leu Val Val Asn Pro Val Ile Phe
	35 40 45
Leu	Leu Asp Pro Phe Val Ala Gly Trp Met Leu Val Ala Glu Phe Ile
	50 55 60
Phe	Thr Leu Ala Met Ala Leu Lys Cys Tyr Pro Leu Leu Pro Gly Gly
65	70 75 80
Leu	Leu Ala Leu Glu Ala Val Val Ile Gly Met Thr Ser Ala Glu His
	85 90 95
Val	Lys Asn Glu Ile Ala Ser Asn Leu Glu Val Leu Leu Leu Ile
	100 105 110
Phe	Met Val Ala Gly Ile Tyr Phe Met Lys Gln Leu Leu Phe Ile
	115 120 125
Phe	Thr Arg Leu Leu Leu Ser Ile Pro Ser Lys Thr Leu Leu Ser Leu
	130 135 140
Ala	Phe Cys Leu Ala Ala Ala Phe Val Ser Ala Phe Leu Asp Ala Leu
145	150 155 160
Thr	Val Val Ala Val Val Ile Ser Val Ala Val Gly Phe Tyr Gly Ile
	165 170 175
Tyr	His Arg Val Ala Ser Ser Arg Pro Gly Asp Asn Leu Gln Asp Asp
	180 185 190
Ser	His Val Glu Ala His Asn Arg Asp Val Leu Glu Gln Phe Arg Ala
	195 200 205
Phe	Leu Arg Ser Leu Met Met His Ala Gly Val Gly Thr Ala Leu Gly
	210 215 220

Gly Val Met Thr Met Val Gly Glu Pro Gln Asn Leu Ile Ile Ala Lys
 225 230 235 240
 Ala Ala Glu Trp His Phe Gly Glu Phe Phe Leu Arg Met Ala Pro Val
 245 250 255
 Ser Val Pro Val Leu Val Cys Gly Leu Ala Thr Cys Val Leu Val Glu
 260 265 270
 Lys Phe Asn Leu Phe Gly Tyr Gly Ala Thr Leu Pro Asp Gln Val Arg
 275 280 285
 Gln Glu Leu His Lys Phe Asp Glu Gln Ser Arg Lys Gln Arg Thr Arg
 290 295 300
 Gln Glu Thr Leu Arg Leu Ile Ala Gln Gly Phe Ile Gly Val Trp Leu
 305 310 315 320
 Ile Ala Ala Leu Ala Phe His Leu Ala Glu Val Gly Leu Ile Gly Leu
 325 330 335
 Ser Val Ile Ile Leu Ala Thr Ser Leu Gly Gly Val Thr Asp Glu His
 340 345 350
 Ala Ile Gly Lys Ala Phe Thr Glu Ala Leu Pro Phe Thr Ala Leu Leu
 355 360 365
 Ala Val Phe Phe Ala Val Val Ala Val Ile Ile Asp Gln His Leu Phe
 370 375 380
 Ala Pro Ile Ile Ala Phe Val Leu Gln Ala Thr Pro Asp Ser Gln Leu
 385 390 395 400
 Thr Leu Phe Tyr Leu Phe Asn Gly Leu Leu Ser Ser Ile Ser Asp Asn
 405 410 415
 Val Phe Val Gly Thr Val Tyr Ile Asn Glu Ala Lys Ala Ala Met Glu
 420 425 430
 Gln Gly Ile Val Ser Ser Glu Gln Phe Glu Leu Leu Ala Val Ala Ile
 435 440 445
 Asn Thr Gly Thr Asn Leu Pro Phe Arg Gly Asn Pro Glu Arg Ser Gly
 450 455 460
 Gly Ile Pro Leu Pro Ala Asp Leu Gly Ala Gly Thr Thr His Thr Thr
 465 470 475 480
 Phe Leu Trp Lys Asn Gly Leu Asp Gly Ala Ala Val Tyr Ala Gly Ala
 485 490 495
 Tyr Pro Gly Trp Phe Thr Val His Gln Asn Tyr Ser Arg Ser Leu Tyr
 500 505 510
 Ala Met Val Ile Ala Ser Arg Tyr Thr Cys Gly Ala Leu Lys Phe Val
 515 520 525
 Tyr Thr Ala Leu Ser Lys His Val Pro Gly Lys
 530 535 540

<210> 6943

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6943

Arg Cys Ser Ile Cys Leu Thr Val Cys Cys Pro Leu Tyr Pro Ile Thr
 1 5 10 15
 Ser Leu Ser Gly Arg Tyr Thr Ser Met Arg Pro Lys Pro Arg Trp Ser
 20 25 30
 Lys Gly Leu Ser Ala Val Asn Ser Ser Ser Cys Trp Arg Trp Arg Ser
 35 40 45
 Thr Pro Glu Pro Thr Ser Pro Ser Val Ala Thr Pro Asn Gly Gln Ala
 50 55 60
 Ala Phe Leu Phe Leu Leu Thr Ser Ala Leu Ala Pro Leu Ile Arg Leu
 65 70 75 80
 Ser Tyr Gly Arg Met Val Trp Met Ala Leu Pro Tyr Thr Leu Val Leu
 85 90 95
 Thr Leu Val Gly Leu Leu Cys Ile Lys Ile Thr Leu Val Pro Cys Thr
 100 105 110

Gln Trp Leu Leu Gln Ala Gly Ile Leu Ala Ala His
 115 120 125

<210> 6944

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 6944

Asn Ser Phe Thr Leu Arg Cys Leu Ser Met Phe Gln Gly Asn Asp Tyr
 1 5 10 15
 Val Ala Ile Phe Glu Pro Val Leu Thr Arg Ser Arg Ser Val Val Val
 20 25 30
 Asp Gly Pro Asp Arg Leu Cys Ala Gly Asn Gly Arg Ala Val Val Ser
 35 40 45
 Ala Cys Asp Gly Ala Glu Thr Leu Arg Thr Val Tyr Leu
 50 55 60

<210> 6945

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6945

Ile Met Thr Asp Tyr Leu Leu Leu Phe Val Gly Thr Val Leu Val Asn
 1 5 10 15
 Asn Phe Val Leu Val Lys Phe Leu Gly Leu Cys Pro Phe Met Gly Val
 20 25 30
 Ser Lys Lys Leu Glu Thr Ala Met Gly Met Gly Leu Ala Thr Thr Phe
 35 40 45
 Val Met Thr Met Ala Ser Ile Cys Ala Trp Leu Ile Asp Thr Trp Ile
 50 55 60
 Leu Ile Pro Leu Asp Met Leu Tyr Leu Arg Thr Leu Ala Phe Ile Leu
 65 70 75 80
 Val Ile Ala Val Val Val Gln Phe Thr Glu Met Val Val Arg Lys Thr
 85 90 95
 Ser Pro Ala Leu Tyr Arg Leu Leu Gly Ile Phe Leu Pro Leu Ile Thr
 100 105 110
 Thr Asn Cys Ala Val Leu Gly Val Ala Leu Leu Asn Ile Asn Leu Gly
 115 120 125
 His Asn Phe Leu Gln Ser Ala Leu Tyr Gly Phe Ser Ala Ala Val Gly
 130 135 140
 Phe Ser Phe Val Met Val Leu Phe Ala Ser Ile Arg Glu Arg Leu Ala
 145 150 155 160
 Ala Ala Asp Ile Pro Ala Pro Phe Arg Gly Asn Ala Ile Ala Leu Val
 165 170 175
 Thr Ala Gly Leu Met Ser Leu Ala Phe Met Gly Phe Ser Gly Leu Val
 180 185 190
 Lys Leu
 195

<210> 6946

<211> 702

<212> PRT

<213> Enterobacter cloacae

<400> 6946

Asn Tyr Ala Arg Leu Lys Arg Leu Pro Lys Thr Gly Ser Gly Thr Phe
 1 5 10 15
 Arg Pro Phe Arg Phe Ala Ile Phe Leu Trp Asn Asn Met Leu Lys Leu
 20 25 30

Phe Ser Ala Phe Arg Lys Glu Lys Ile Trp Asp Phe Asp Gly Gly Ile
 35 40 45
 His Pro Pro Glu Met Lys Ser Gln Ser Asn Gly Thr Pro Leu Arg Gln
 50 55 60
 Ile Pro Leu Ala Thr Arg Tyr Val Met Pro Leu Lys Gln His Ile Gly
 65 70 75
 Ala Glu Gly Glu Leu Cys Val Lys Glu Gly Asp Ser Val Leu Arg Gly
 85 90 95
 Gln Pro Leu Thr Phe Gly Arg Gly Arg Met Leu Pro Ile His Ala Pro
 100 105 110
 Thr Ser Gly Lys Val Val Ala Val Ala Pro His Thr Val Ala His Pro
 115 120 125
 Ser Ala Leu Ser Glu Leu Ser Val Ile Ile Glu Ala Asp Gly Glu Asp
 130 135 140
 Arg Trp Ile Glu Arg Asp Gly Trp Ser Asp Tyr Arg Ser His Ser Arg
 145 150 155
 Glu Ala Leu Ile Glu Arg Ile His Gln Phe Gly Val Ala Gly Leu Gly
 165 170 175
 Gly Ala Gly Phe Pro Thr Gly Ala Lys Leu His Gly Gly Gly Asp Lys
 180 185 190
 Ile Glu Thr Leu Ile Ile Asn Ala Ala Glu Cys Glu Pro Tyr Ile Thr
 195 200 205
 Ala Asp Asp Arg Leu Met Gln Asp Cys Ala Ala Gln Val Val Glu Gly
 210 215 220
 Ile Arg Ile Leu Ala His Ile Leu Gln Pro Arg Glu Val Leu Ile Gly
 225 230 235
 Ile Glu Asp Asn Lys Pro Gln Ala Ile Ser Met Leu Arg Ala Val Leu
 245 250 255
 Ala Asp Ser His Asp Ile Ala Leu Arg Val Ile Pro Thr Lys Tyr Pro
 260 265 270
 Ser Gly Gly Ala Lys Gln Leu Thr Gln Ile Leu Thr Gly Lys Gln Val
 275 280 285
 Pro His Gly Gly Arg Ser Ser Asp Ile Gly Val Leu Met Gln Asn Val
 290 295 300
 Gly Thr Ala Tyr Ala Val Lys Arg Ala Val Ile Asp Gly Glu Pro Leu
 305 310 315
 Thr Glu Arg Val Val Thr Leu Thr Gly Glu Ser Val Ser Arg Pro Gly
 325 330 335
 Asn Ile Trp Ala Arg Leu Gly Thr Pro Val Arg His Leu Leu Glu Gln
 340 345 350
 Ala Gly Phe Cys Pro Gly Asn Asp Gln Leu Val Ile Met Gly Gly Pro
 355 360 365
 Leu Met Gly Phe Thr Leu Pro Trp Leu Asp Val Pro Val Val Lys Ile
 370 375 380
 Thr Asn Cys Leu Leu Ala Pro Ser Leu Thr Glu Met Gly Glu Thr Gln
 385 390 395
 Glu Glu Lys Gly Cys Ile Arg Cys Ser Ala Cys Ala Asp Ala Cys Pro
 405 410 415
 Ala Asp Leu Leu Pro Gln Gln Leu Tyr Trp Ser Lys Gly Gln Leu
 420 425 430
 His Asp Lys Ala Gln Ala His Asn Leu Ala Asp Cys Ile Glu Cys Gly
 435 440 445
 Ala Cys Ala Trp Val Cys Pro Ser Asn Ile Pro Leu Val Gln Tyr Phe
 450 455 460
 Arg Gln Glu Lys Ala Glu Ile Tyr Ala Ile Ser Met Glu Glu Lys Arg
 465 470 475
 Ala Ala Glu Ala Lys Ala Arg Phe Glu Ala Arg Gln Ala Arg Leu Glu
 485 490 495
 Arg Glu Lys Gln Ala Arg Gln Glu Arg His Lys Gln Ala Val Gln
 500 505 510
 Pro Ala Ala Lys Asp Gln Asp Ala Ile Asn Ala Ala Leu Ala Arg Val

515	520	525
Arg Glu Lys Lys Ala Thr	Ala Ala Gln Thr Val	Val Ile Ala Pro Gly
530	535	540
Glu Lys Pro Asp Asn Ser	Glu Ala Ile Ala Ala	Arg Glu Ala Arg Lys
545	550	555
Ala Glu Ala Arg Ala Arg	Gln Ala Glu Lys Ala	Gln Asn Ala Lys Pro
565	570	575
Glu Ala Asp Ile Asp	Pro Arg Lys Ala Ala	Val Glu Ala Ala Ile Ala
580	585	590
Arg Ala Lys Ala Arg Lys	Ala Gly Gln Gln Thr	Val Val Val Glu Gln
595	600	605
Glu Ala Thr Asp Pro Arg	Lys Ala Ala Val Glu	Ala Ala Ile Ala Arg
610	615	620
Ala Lys Ala Arg Lys Ala	Gln Gln Leu Gln Pro	Ala Glu Glu Ser Glu
625	630	635
Ala Pro Val Asp Pro Arg	Lys Ala Ala Val Glu	Ala Ala Ile Ala Arg
645	650	655
Ala Lys Ala Arg Lys Ala	Gln Gln Asp Glu	Leu Pro Ala Ala Ala
660	665	670
Asn Asp Asp Pro Arg Lys	Ala Ala Val Ala Ala	Ile Ala Arg Val
675	680	685
Gln Ala Lys Lys Ala Ala	Gln Gln Ala Val Asn	Glu Asp
690	695	700

<210> 6947

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 6947

Met Val Phe Arg Ile Ala	Ser Ser Pro Tyr Thr	His Asn Gln Arg Gln
1	5	10
Thr Ser Arg Ile Met Met	Leu Val Cys Leu Ala	Ala Leu Pro Gly Ile
20	25	30
Ala Val Gln Cys Trp Phe	Phe Gly Trp Gly Thr	Leu Phe Gln Leu Val
35	40	45
Leu Gly Cys Ala Ser Ala	Val Ala Ala Glu Ala	Ile Leu Lys Leu
50	55	60
Arg Lys Met Glu Val Thr	Arg Ile Leu Ser Asp	Asn Ser Ala Leu Leu
65	70	75
Thr Gly Leu Leu Leu Ala	Ile Ser Ile Pro	Phe Ala Pro Trp Trp
85	90	95
Met Val Val Leu Gly Thr	Val Phe Ala Val Ile	Ile Ala Lys Gln Leu
100	105	110
Tyr Gly Gly Leu Gly His	Asn Pro Phe Asn Pro	Ala Met Ile Gly Tyr
115	120	125
Val Val Leu Leu Ile Ser	Phe Pro Val Gln Met	Thr Ser Trp Leu Pro
130	135	140
Pro His Glu Ile Ala Ala	Thr Val Pro Gly Phe	Met Asp Ala Leu His
145	150	155
Val Ile Phe Thr Gly His	Thr Ala Leu Gly Ala	Asp Met Asn Ala Leu
165	170	175
Arg Met Gly Val Asp Gly	Ile Ser Gln Ala Thr	Pro Leu Asp Thr Phe
180	185	190
Lys Thr Ser Leu Arg Ala	Gly Gln Ser Val Glu	Gln Val Met Lys Ser
195	200	205
Ser Ile Tyr Ser Gly Val	Leu Ala Gly Ala Gly	Trp Gln Trp Val Asn
210	215	220
Leu Ala Tyr Leu Leu Gly	Gly Ala Phe Leu Leu	Gln Gln Lys Ala Ile
225	230	235
Arg Trp His Ile Pro Val	Ser Phe Leu Val Thr	Leu Ala Val Cys Ser

245 250 255
 Thr Leu Gly Trp Val Ile Ser Pro Glu Ser Leu Ala Ser Pro Gln Leu
 260 265 270
 His Leu Leu Ser Gly Ala Thr Met Leu Gly Ala Phe Phe Ile Leu Thr
 275 280 285
 Asp Pro Val Thr Ala Ser Thr Thr Asn Arg Gly Arg Leu Ile Phe Gly
 290 295 300
 Ala Leu Ala Gly Leu Leu Val Trp Leu Ile Arg Ser Phe Gly Gly Tyr
 305 310 315 320
 Pro Asp Gly Val Ala Phe Ala Val Leu Leu Ala Asn Ile Thr Val Pro
 325 330 335
 Leu Ile Asp Tyr Tyr Thr Arg Pro Arg Val Tyr Gly His Arg
 340 345 350

<210> 6948

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6948

Gly Val Thr Met Ser Gln Val Lys Glu Val Ile Val Gln Gly Leu Trp
 1 5 10 15
 Lys Asn Asn Ser Ala Leu Val Gln Leu Leu Gly Leu Cys Pro Leu Leu
 20 25 30
 Ala Val Thr Ser Thr Ala Thr Asn Ala Leu Gly Leu Gly Leu Ala Thr
 35 40 45
 Thr Leu Val Leu Thr Leu Thr Asn Phe Ser Ile Ser Val Leu Arg Arg
 50 55 60
 Trp Thr Pro Ser Glu Ile Arg Ile Pro Ile Tyr Val Met Ile Ile Ala
 65 70 75 80
 Ser Val Val Ser Val Val Gln Met Leu Ile Asn Ala Tyr Ala Phe Gly
 85 90 95
 Leu Tyr Gln Ser Leu Gly Ile Phe Ile Pro Leu Ile Val Thr Asn Cys
 100 105 110
 Ile Val Val Gly Arg Ala Glu Ala Phe Ala Val Lys Asn Asn Pro Ala
 115 120 125
 Ile Ser Ala Leu Asp Gly Phe Ser Ile Gly Met Gly Ala Thr Ala Ala
 130 135 140
 Met Phe Val Leu Gly Ser Leu Arg Glu Ile Leu Gly Asn Gly Thr Leu
 145 150 155 160
 Phe Asp Gly Ala Asp Ala Leu Leu Gly Gly Trp Ala Lys Ser Leu Arg
 165 170 175
 Ile Glu Val Phe His Thr Asp Thr Pro Phe Leu Leu Ala Met Leu Pro
 180 185 190
 Pro Gly Ala Phe Ile Gly Leu Gly Met Met Leu Ala Leu Lys Tyr Leu
 195 200 205
 Ile Asp Glu Lys Arg Lys Arg Arg Ala Ala Glu Arg Ser Val Gln Glu
 210 215 220
 Gly Ile Pro Glu Lys Ala Val
 225 230

<210> 6949

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 6949

Thr Pro Pro Leu Ile Trp Asp Val Lys Lys Glu Val Tyr Val Ser Thr
 1 5 10 15
 Ala Asn Asn Lys Pro Thr Asp Glu Ser Val Ser Leu Asn Ala Phe Lys
 20 25 30

Gln Pro Lys Ala Phe Tyr Leu Ile Phe Ser Ile Glu Leu Trp Glu Arg
 35 40 45
 Phe Gly Tyr Tyr Gly Leu Gln Gly Ile Met Ala Val Tyr Leu Val Lys
 50 55 60
 Gln Leu Gly Met Ser Glu Ala Asp Ser Ile Thr Leu Phe Ser Ser Phe
 65 70 75 80
 Ser Ala Leu Val Tyr Gly Leu Val Ala Ile Gly Gly Trp Leu Gly Asp
 85 90 95
 Lys Val Leu Gly Thr Lys Arg Val Ile Met Leu Gly Ala Val Val Leu
 100 105 110
 Ala Ile Gly Tyr Gly Leu Val Ala Trp Ser Gly His Asp Ala Gly Val
 115 120 125
 Val Tyr Met Gly Met Ala Thr Ile Ala Val Gly Asn Gly Leu Phe Lys
 130 135 140
 Ala Asn Pro Ser Ser Leu Leu Ser Thr Cys Tyr Ser Lys Asp Asp Pro
 145 150 155 160
 Arg Leu Asp Gly Ala Phe Thr Met Tyr Tyr Met Ser Ile Asn Ile Gly
 165 170 175
 Ser Phe Phe Ser Met Leu Ala Thr Pro Trp Leu Ala Ala Lys Phe Gly
 180 185 190
 Trp Ser Val Ala Phe Ala Leu Ser Phe Val Gly Met Leu Ile Thr Val
 195 200 205
 Val Asn Phe Leu Phe Cys Arg Ser Trp Val Lys Asp Tyr Gly Ser Lys
 210 215 220
 Pro Asp Phe Glu Pro Val His Met Gly Lys Leu Leu Ala Thr Ile Val
 225 230 235 240
 Gly Ile Val Ile Leu Ala Ala Val Ala Thr Trp Leu Leu His Asn Gln
 245 250 255
 Gly Val Ala Arg Ala Val Leu Gly Val Val Ala Leu Gly Ile Val Ile
 260 265 270
 Ile Phe Ala Lys Glu Ala Phe Ala Met Gln Gly Ala Ala Arg Arg Lys
 275 280 285
 Met Ile Val Ala Phe Ile Leu Met Leu Glu Ala Ile Ile Phe Phe Val
 290 295 300
 Leu Tyr Ser Gln Met Pro Thr Ser Leu Asn Phe Phe Ala Ile Arg Asn
 305 310 315 320
 Val Glu His Ser Ile Leu Gly Ile Ala Phe Glu Pro Glu Gln Tyr Gln
 325 330 335
 Ala Leu Asn Pro Phe Trp Ile Met Ile Gly Ser Pro Ile Leu Ala Ala
 340 345 350
 Ile Tyr Asn Lys Met Gly Asp Arg Leu Pro Met Pro His Lys Phe Ala
 355 360 365
 Ile Gly Met Val Leu Cys Ser Gly Ala Phe Leu Val Leu Pro Leu Gly
 370 375 380
 Thr Lys Phe Ala Thr Asp Ala Gly Ile Val Ser Val Asn Trp Leu Ile
 385 390 395 400
 Leu Ser Tyr Ala Leu Gln Ser Ile Gly Glu Leu Met Ile Ser Gly Leu
 405 410 415
 Gly Leu Ala Met Val Ala Gln Leu Val Pro Gln Arg Leu Met Gly Phe
 420 425 430
 Ile Met Gly Ser Trp Phe Leu Thr Thr Ala Gly Ala Ala Ile Ile Ala
 435 440 445
 Gly Lys Ile Ala Asn Leu Met Ala Val Pro Asp Asn Val Thr Asp Pro
 450 455 460
 Leu Val Ser Leu Asn Val Tyr Gly Thr Val Phe Met Gln Ile Gly Ile
 465 470 475 480
 Ala Thr Ala Val Ile Ala Val Leu Met Leu Leu Thr Ala Pro Lys Leu
 485 490 495
 Asn Arg Met Thr Gln Asp Asp Asp Lys Ser Ala Lys Ala Ile Lys Thr
 500 505 510
 Ala Asn Ala

515

<210> 6950

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 6950

```

His Ser Trp Asn Leu Ser Lys Lys Glu Leu Pro Met Lys Leu Phe Tyr
1      5      10      15
Lys Pro Gly Ala Cys Ser Leu Ala Ser His Ile Thr Leu Arg Glu Ser
20      25      30
Gly Lys Asp Phe Thr Leu Asp Gly Val Asp Leu Met Lys Lys Arg Leu
35      40      45
Glu Asn Gly Asp Asp Phe Phe Ala Ile Asn Pro Lys Gly Gln Val Pro
50      55      60
Ala Leu Leu Leu Asp Asp Gly Thr Leu Leu Thr Glu Gly Val Ala Ile
65      70      75      80
Met Gln Phe Leu Ala Asp Asn Val Pro Asp Arg Gln Leu Leu Ala Pro
85      90      95
Thr Gly Ser Ile Ala Arg Tyr Lys Thr Leu Glu Trp Leu Asn Tyr Ile
100     105     110
Ala Thr Glu Leu His Lys Gly Phe Thr Pro Leu Phe Arg Pro Asp Thr
115     120     125
Pro Glu Glu Tyr Lys Pro Thr Val Arg Ala Leu Leu Glu Lys Lys Leu
130     135     140
Gln Tyr Val Asn Asp Ala Leu Lys Asp Asp Gln Trp Ile Cys Gly Ser
145     150     155     160
Arg Phe Thr Ile Ala Asp Ala Tyr Leu Phe Thr Val Leu Arg Trp Ala
165     170     175
Arg Ala Val Lys Leu Asn Met Glu Gly Leu Asp His Val Ala Ser Tyr
180     185     190
Met Thr Arg Val Ala Glu Arg Pro Ala Val Ala Ala Leu Lys Ala
195     200     205
Glu Gly Leu Asn
210

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<210> 6951

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 6951

```

Phe Phe Ala Lys Lys Thr Pro Asn Phe Val Ala Leu Pro Glu Trp Thr
1      5      10      15
Val Tyr Val Phe Ile Asn Pro Phe Ile Ile Arg Thr His Tyr Leu Tyr
20      25      30
Gly Tyr Tyr Pro Phe Ile Trp Lys Leu Ile Asn Met Thr Val Gln Asp
35      40      45
Tyr Leu Leu Lys Phe Arg Lys Ile Asn Ser Leu Glu Ser Leu Glu Lys
50      55      60
Leu Phe Asp His Leu Asn Tyr Thr Leu Ser Asp Asn Gln Asp Ile Ile
65      70      75      80
Asn Met Tyr Arg Ala Ala Asp His Arg Arg Ala Glu Leu Val Ser Gly
85      90      95
Gly Arg Leu Phe Asn Val Gly Glu Val Pro Lys Ser Val Trp Arg Tyr
100     105     110
Val Val
115

```

<210> 6952

<211> 260

<212> PRT

<213> *Enterobacter cloacae*

<400> 6952

```

Phe Ser Ala Arg Trp Gln Ala Cys Trp Ser Gly Leu Phe Ala Ala Leu
1      5      10      15
Ala Ala Ile Arg Thr Ala Trp His Leu Pro Cys Cys Trp Leu Thr Ser
20      25      30
Pro Phe Arg Ser Ser Thr Thr Thr Arg Val His Ala Cys Thr Val Ile
35      40      45
Ala Lys Gly Arg Ala Met Leu Lys Thr Met Gln Lys His Gly Val Thr
50      55      60
Leu Ala Ile Phe Ala Ala Ala Leu Thr Gly Leu Thr Ala Leu Val Asn
65      70      75
Glu Leu Thr Lys Thr Thr Ile Ala Glu Gln Ala Met Lys Gln Gln Lys
85      90      95
Ala Leu Phe Asp Gln Val Ile Pro Ser Asp Leu Tyr Asp Asn Asp Leu
100     105     110
Gln Lys Ser Cys Phe Val Val Gln Ala Pro Gln Leu Gly Lys Gly Pro
115     120     125
His Arg Val Tyr Ile Ala Arg Lys Gly Asp Asn Pro Val Gly Ala Val
130     135     140
Met Glu Ala Thr Ala Pro Asp Gly Tyr Ser Gly Ala Ile Gln Leu Leu
145     150     155
Val Gly Ser Asp Phe Ser Gly Thr Val Leu Gly Thr Arg Val Thr Glu
165     170     175
His His Glu Thr Pro Gly Leu Gly Asp Lys Ile Glu Thr Arg Leu Ser
180     185     190
Asp Trp Ile Leu His Phe Ala Gly Lys Met Ile His Gly Glu Asp Asp
195     200     205
Pro Ala Phe Ala Val Lys Lys Asp Gly Gly Glu Phe Asp Gln Phe Thr
210     215     220
Gly Ala Thr Ile Thr Pro Arg Ala Val Val Asn Ala Val Lys Arg Ala
225     230     235
Gly Leu Tyr Ala Glu Thr Leu Pro Ala Gln Ile Asn His Leu Ser Thr
245     250     255
Cys Glu Glu
260

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<210> 6953

<211> 156

<212> PRT

<213> *Enterobacter cloacae*

<400> 6953

```

His Phe Ala Gln Thr Met Gly Glu Arg Met Thr Ala Leu Pro Gly Glu
1      5      10      15
Arg Ile Gly Gly Trp Leu Ile Ala Pro Leu Ala Trp Leu Leu Val Ala
20      25      30
Leu Leu Ser Ala Ser Leu Ala Leu Leu Tyr Thr Thr Ala Leu Val
35      40      45
Thr Pro His Ala Ile Gln Thr Leu Met Ser Gln Ser Ala Leu Asn Ile
50      55      60
Ala Thr Trp Phe Val Ser Phe Val Phe Ala Ile Ala Met Trp Tyr Tyr
65      70      75
Thr Leu Trp Leu Thr Ile Ala Phe Phe Lys Arg Arg Lys Ser Val Pro
85      90      95
Lys His Tyr Ile Ile Trp Leu Leu Val Ser Val Leu Leu Ala Val Lys
100     105     110
Ala Phe Ala Phe Ser Pro Val Ser Asp Ala Leu Ala Val Arg Gln Leu

```

115	120	125
Leu Phe Pro Leu Leu Ala Thr Ala Leu Leu Val Pro Tyr Phe Lys Arg		
130	135	140
Ser Thr Arg Val Lys Lys Thr Phe Val Asn Pro		
145	150	155

<210> 6954

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6954

Trp Ser Gly Glu Val Val Met Ser Ala Ile Trp Ile Ala Ile Ala Ser	
1	5
Ile Ser Val Leu Gly Leu Val Phe Gly Ile Ile Leu Gly Tyr Ala Ser	
	20
Arg Arg Phe Ala Val Glu Asp Asp Pro Val Val Glu Lys Ile Asp Glu	
	35
Leu Leu Pro Gln Ser Gln Cys Gly Gln Cys Gly Tyr Pro Gly Cys Arg	
	50
Pro Tyr Ala Glu Ala Val Gly Val Gln Gly Glu Lys Ile Asn Arg Cys	
65	70
Ala Pro Gly Gly Glu Ala Val Met Leu Lys Ile Ala Ala Leu Leu Asn	
	85
Val Asp Pro Gln Pro Val Asp Gly Asp Glu Gln Ala Gln Glu Pro Val	
	100
Arg Ala Leu Ala Val Ile Asp Glu Ala Asn Cys Ile Gly Cys Thr Lys	
	115
Cys Ile Gln Ala Cys Pro Val Asp Ala Ile Val Gly Ala Thr Arg Ala	
	130
Met His Thr Val Val Ala Asp Leu Cys Thr Gly Cys Asn Leu Cys Val	
145	150
Ala Pro Cys Pro Thr Gln Cys Ile Glu Leu Arg Pro Val Glu Thr Thr	
	165
Thr Glu Asn Trp Lys Trp Asp Leu Gln Thr Ile Pro Val Arg Asn Ile	
	180
Pro Val Glu Gln His Ala	
	195

<210> 6955

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 6955

Thr Gln Arg Thr Gly Arg Asp Pro Arg Glu Ser Ser Met Asn Lys Glu	
1	5
Lys Arg Ile Ala Ile Leu Thr Arg Leu Arg Asp Glu Asn Pro His Pro	
	20
Thr Thr Glu Leu Asn Phe Asn Ser Pro Phe Glu Leu Leu Ile Ala Val	
	35
Leu Leu Ser Ala Gln Ala Thr Asp Val Ser Val Asn Lys Ala Thr Ala	
	50
Leu Leu Tyr Pro Val Ala Asn Thr Pro Gln Ala Met Leu Glu Leu Gly	
65	70
Val Glu Gly Val Lys Ser Tyr Ile Lys Thr Ile Gly Leu Phe Asn Ser	
	85
Lys Ala Glu Asn Val Ile Lys Thr Cys Arg Ile Leu Leu Glu Lys His	
	100
Gly Gly Glu Val Pro Glu Asp Arg Ala Ala Leu Glu Ala Leu Pro Gly	
	115
	120
	125

Val Gly Arg Lys Thr Ala Asn Val Val Leu Asn Thr Ala Phe Gly Trp
 130 135 140
 Pro Thr Ile Ala Val Asp Thr His Ile Phe Arg Val Ser Asn Arg Thr
 145 150 155 160
 Arg Phe Ala Pro Gly Lys Asn Val Glu Glu Val Glu Glu Lys Leu Leu
 165 170 175
 Lys Val Val Pro Ala Glu Phe Lys Val Asp Cys His His Trp Leu Ile
 180 185 190
 Leu His Gly Arg Tyr Thr Cys Ile Ala Arg Lys Pro Arg Cys Gly Ser
 195 200 205
 Cys Ile Ile Glu Asp Leu Cys Glu Tyr Lys Glu Lys Val Tyr Pro
 210 215 220

<210> 6956

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 6956

Arg Thr Pro Arg Trp Arg Phe Ile Leu Trp Ser Phe Arg Ile Arg Arg
 1 5 10 15
 Lys Val Val Tyr Arg Gln Arg Cys Ser Arg Leu Tyr Met Glu Asn Leu
 20 25 30
 Met Ala Ser Ser Asn Leu Ile Lys Gln Leu Gln Glu Arg Gly Leu Val
 35 40 45
 Ala Gln Val Thr Asp Glu Glu Ala Leu Ala Glu Arg Leu Ala Gln Gly
 50 55 60
 Pro Ile Ala Leu Tyr Cys Gly Phe Asp Pro Thr Ala Asp Ser Leu His
 65 70 75 80
 Leu Gly His Leu Val Pro Leu Leu Cys Leu Lys Arg Phe Gln Met Ala
 85 90 95
 Gly His Lys Pro Val Ala Leu Val Gly Gly Ala Thr Gly Leu Ile Gly
 100 105 110
 Asp Pro Ser Phe Lys Ala Ala Glu Arg Lys Leu Asn Thr Glu Asp Thr
 115 120 125
 Val Gln Glu Trp Val Asp Lys Ile Arg Lys Gln Val Ala Pro Phe Leu
 130 135 140
 Asp Phe Asp Cys Gly Glu Asn Ser Ala Ile Ala Ala Asn Asn Tyr Asp
 145 150 155 160
 Trp Phe Gly Gly Met Asn Val Leu Thr Phe Leu Arg Asp Ile Gly Lys
 165 170 175
 His Phe Ser Val Asn Gln Met Ile Asn Lys Glu Ala Val Lys Gln Arg
 180 185 190
 Leu Asn Arg Asp Asp Gln Gly Ile Ser Phe Thr Glu Phe Ser Tyr Asn
 195 200 205
 Leu Leu Gln Gly Tyr Asp Phe Ala Cys Leu Asn Lys Leu His Gly Val
 210 215 220
 Ser Leu Gln Ile Gly Gly Ser Asp Gln Trp Gly Asn Ile Thr Ser Gly
 225 230 235 240
 Ile Asp Leu Thr Arg Arg Leu His Gln Asn Gln Val Phe Gly Leu Thr
 245 250 255
 Val Pro Leu Ile Thr Lys Ala Asp Gly Thr Lys Phe Gly Lys Thr Glu
 260 265 270
 Gly Gly Ala Val Trp Leu Asp Pro Lys Lys Thr Ser Pro Tyr Lys Phe
 275 280 285
 Tyr Gln Phe Trp Ile Asn Thr Ala Asp Ala Asp Val Tyr Arg Phe Leu
 290 295 300
 Lys Phe Phe Thr Phe Met Asp Ile Glu Glu Ile Asn Ala Leu Glu Glu
 305 310 315 320
 Glu Asp Lys Asn Ser Gly Lys Ala Pro Arg Ala Gln Tyr Val Leu Ala
 325 330 335

Asp Glu Val Thr Lys Leu Val His Gly Glu Glu Gly Leu Ala Ala Ala
 340 345 350
 Lys Arg Ile Thr Ala Ser Leu Phe Asn Gly Thr Leu Ser Asp Leu Ser
 355 360 365
 Glu Ala Asp Phe Glu Gln Leu Ala Gln Asp Gly Val Pro Met Val Glu
 370 375 380
 Met Glu Lys Gly Ala Asp Leu Met Gln Ala Leu Val Asp Ser Glu Leu
 385 390 395 400
 Gln Pro Ser Arg Gly Gln Ala Arg Lys Thr Ile Ala Ser Asn Ala Ile
 405 410 415
 Thr Ile Asn Gly Glu Lys Gln Ala Asp Pro Glu Tyr Thr Phe Thr Glu
 420 425 430
 Asn Asp Arg Leu Tyr Gly Arg Tyr Thr Leu Leu Arg Arg Gly Lys Lys
 435 440 445
 Asn Tyr Cys Leu Val Cys Trp Lys
 450 455

<210> 6957

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6957

Leu Lys Val Cys Arg Gly Val Gly Asn His Ala Pro Phe Val Leu Thr
 1 5 10 15
 Gly Phe Gly Lys Tyr Asn Met Lys Asn Ile Leu Ala Ile Gln Ser His
 20 25 30
 Val Val Phe Gly His Ala Gly Asn Ser Ala Ala Glu Phe Pro Met Arg
 35 40 45
 Arg Leu Gly Val Asn Val Trp Pro Leu Asn Thr Val Gln Phe Ser Asn
 50 55 60
 His Thr Gln Tyr Gly Lys Trp Thr Gly Cys Val Met Pro Pro Ser His
 65 70 75 80
 Leu Thr Glu Val Val Gln Gly Val Ala Asp Ile Asp Gln Leu Lys Arg
 85 90 95
 Cys Asp Ala Val Leu Ser Gly Tyr Leu Gly Ser Ala Glu Gln Gly Glu
 100 105 110
 His Ile Leu Gly Ile Val Arg Gln Val Lys Ala Ala Asn Pro Ala Ala
 115 120 125
 Lys Tyr Phe Cys Asp Pro Val Met Gly His Pro Glu Lys Gly Cys Ile
 130 135 140
 Val Ala Pro Gly Val Ala Glu Phe His Val Arg His Ala Leu Pro Ala
 145 150 155 160
 Ser Asp Ile Ile Ala Pro Asn Leu Ile Glu Leu Glu Ile Leu Ser Glu
 165 170 175
 His Pro Val Asn Ser Val Glu Glu Ala Val Ser Ala Ser Arg Glu Leu
 180 185 190
 Ile Ala Gln Gly Pro Glu Ile Val Leu Val Lys His Leu Ala Arg Ala
 195 200 205
 Gly Leu Ser Gln Asp Arg Phe Glu Met Leu Leu Val Thr Lys Asp Glu
 210 215 220
 Ala Trp His Ile Ser Arg Pro Leu Val Asp Phe Gly Ala Arg Gln Pro
 225 230 235 240
 Val Gly Val Gly Asp Val Thr Ser Gly Leu Leu Val Lys Leu Leu
 245 250 255
 Gln Gly Ala Ser Leu Arg Asp Ala Leu Glu His Val Thr Ala Ala Val
 260 265 270
 Tyr Glu Ile Met Ile Ala Thr Lys Thr Met Gln Glu Tyr Glu Leu Gln
 275 280 285
 Val Val Ala Ala Gln Asp Arg Ile Ala Lys Pro Glu His Tyr Phe Ser
 290 295 300

Ala Thr Gln Leu
305

<210> 6958

<211> 378

<212> PRT

<213> *Enterobacter cloacae*

<400> 6958

Gly Lys Arg Met Lys Ser Gly Arg Tyr Ile Gly Val Met Ser Gly Thr
1 5 10 15
Ser Leu Asp Gly Val Asp Val Val Leu Ala Ala Ile Asp Glu Asn Met
20 25 30
Val Ala Gln Gln Ala Ser Leu Thr Trp Pro Ile Pro Val Ser Leu Lys
35 40 45
Glu Glu Ile Leu Asn Ile Cys Gln Gly Gln Gln Leu Thr Leu Ser Gln
50 55 60
Leu Gly Gln Leu Asp Val Arg Leu Gly Ala Leu Phe Ala Asp Ala Val
65 70 75 80
Leu Ala Leu Met Gln Gln Glu Arg Leu His Pro Gln Asp Ile Val Ala
85 90 95
Ile Gly Cys His Gly Gln Thr Val Trp His Glu Pro Val Gly Glu Ala
100 105 110
Pro His Thr Met Gln Ile Gly Asp Asn Asn Gln Ile Val Ala Lys Thr
115 120 125
Gly Val Thr Val Val Gly Asp Phe Arg Arg Arg Asp Met Ala Leu Gly
130 135 140
Gly Gln Gly Ala Pro Leu Val Pro Ala Phe His Gln Ala Leu Leu Ala
145 150 155 160
His Pro Val Lys Arg Met Met Val Leu Asn Ile Gly Gly Asn Pro Asn
165 170 175
Leu Ser Met Leu Ile Pro Gly Gln Pro Val Arg Gly Tyr Asp Thr Gly
180 185 190
Pro Gly Asn Met Leu Met Asp Ala Trp Ile Trp Arg Gln Ser Gly Lys
195 200 205
Ala Tyr Asp Lys Asp Ala Gln Trp Ala Ser Gln Gly Lys Val Ile Leu
210 215 220
Pro Leu Leu Gln Thr Leu Leu Ser Asp Pro Phe Phe Ala Leu Pro Ala
225 230 235 240
Pro Lys Ser Thr Gly Arg Glu Tyr Phe Asn Tyr Gly Trp Leu Glu Arg
245 250 255
Gln Leu Ala Arg Phe Pro Gly Leu Ala Pro Gln Asp Val Gln Ala Thr
260 265 270
Leu Thr Glu Leu Thr Ala Val Ser Ile Ser Glu Gln Val Leu Leu Ser
275 280 285
Gly Gly Cys Glu Arg Leu Leu Val Cys Gly Gly Gly Ser Arg Asn Pro
290 295 300
Leu Val Met Ala Arg Leu Ala Ala Leu Leu Pro Gly Thr Glu Val Thr
305 310 315 320
Thr Thr Asp Glu Ala Gly Ile Ser Gly Asp Asp Met Glu Ala Leu Ala
325 330 335
Phe Ala Trp Leu Ala Trp Arg Thr Val Ala Gly Leu Pro Gly Asn Leu
340 345 350
Pro Ser Val Thr Gly Ala Arg Glu Ala Ser Val Leu Gly Ala Ile Phe
355 360 365
Pro Ala Asn Pro Arg His Asn Gln Ser
370 375

<210> 6959

<211> 120

<212> PRT

<213> *Enterobacter cloacae*

<400> 6959

Ala Leu Gln Asp Gln Asp Ser Leu Arg Asn Leu Pro Met Lys Lys Leu
 1 5 10 15
 Leu Leu Ile Ala Val Pro Phe Leu Met Thr Gly Cys Ser Val Tyr Asn
 20 25 30
 Gln Phe Val Glu Arg Met Gln Thr Asp Thr Leu Glu Tyr Arg Cys Asp
 35 40 45
 Glu Lys Pro Leu Thr Val Lys Leu Asn Asn Pro Arg Gln Glu Ala Ser
 50 55 60
 Phe Val Tyr Asp Asn Lys Leu Leu Thr Leu Lys Gln Gly Met Ser Ala
 65 70 75 80
 Ser Gly Ala Arg Tyr Ser Asp Gly Ile Tyr Val Phe Trp Ser Lys Gly
 85 90 95
 Asp Ser Ala Thr Val Tyr Lys Arg Asp Ile Val Leu Asn Asn Cys
 100 105 110
 Gln Leu Gln Asn Pro Lys Arg
 115 120

<210> 6960

<211> 229

<212> PRT

<213> *Enterobacter cloacae*

<400> 6960

Arg His Pro Ile Ser Leu Ser Ala Asn Ala Met Ser Asp Asn Asp Glu
 1 5 10 15
 Leu Gln Gln Ile Ala His Leu Arg Arg Glu Tyr Thr Lys Gly Gly Leu
 20 25 30
 Arg Arg Gln Asp Leu Pro Ala Glu Pro Leu Val Leu Phe Glu Arg Trp
 35 40 45
 Leu Lys Gln Ala Cys Glu Thr Lys Leu Val Asp Pro Thr Ala Met Val
 50 55 60
 Val Ala Thr Val Asp Glu Asn Gly Gln Pro Tyr Gln Arg Ile Val Leu
 65 70 75 80
 Leu Lys His Tyr Asp Glu Lys Gly Leu Val Phe Tyr Thr Asn Leu Gly
 85 90 95
 Ser Arg Lys Ala His His Leu Glu Asn Asn Pro Arg Ile Ser Leu Leu
 100 105 110
 Phe Pro Trp His Met Leu Glu Arg Gln Val Met Val Thr Gly Lys Ala
 115 120 125
 Glu Arg Leu Ser Thr Leu Glu Val Val Lys Tyr Phe His Ser Arg Pro
 130 135 140
 Arg Asp Ser Gln Ile Gly Ala Trp Val Ser Lys Gln Ser Ser Arg Ile
 145 150 155 160
 Ser Ala Arg Gly Val Leu Glu Ser Lys Phe Leu Glu Leu Lys Gln Lys
 165 170 175
 Phe Gln Gln Gly Glu Val Pro Leu Pro Ser Phe Trp Gly Gly Phe Arg
 180 185 190
 Ile Pro Ile Glu Gln Met Glu Phe Trp Gln Gly Gly Glu His Arg Leu
 195 200 205
 His Asp Arg Phe Leu Tyr Gln Arg Asp Asn Gly Gly Trp Lys Ile Asp
 210 215 220
 Arg Leu Ala Pro
 225

<210> 6961

<211> 386

<212> PRT

<213> *Enterobacter cloacae*

<400> 6961

Cys Glu Val Thr Lys Asn Ala Val Val Arg Cys Tyr Phe Asn Ser Gln
 1 5 10 15
 Gly Thr Leu Leu Met Cys Ala Leu Ser Thr Arg Pro Val Ile Asn Lys
 20 25 30
 Arg Thr Ala Arg Gly Lys Thr Met Ser Glu Asn Ile Arg Val Gly Leu
 35 40 45
 Ile Gly Tyr Gly Tyr Ala Ser Lys Thr Phe His Ala Pro Leu Val Ala
 50 55 60
 Gly Thr Pro Gly Met Glu Leu Ala Ala Ile Thr Ser Ser Asp Glu Thr
 65 70 75 80
 Lys Val Arg Ala Asp Trp Pro Ala Val Pro Val Val Thr Glu Pro Lys
 85 90 95
 His Leu Phe Asn Asp Pro Asn Ile Asp Leu Ile Val Ile Pro Thr Pro
 100 105 110
 Asn Asp Thr His Phe Pro Leu Ala Lys Ala Ala Leu Asp Ala Ser Lys
 115 120 125
 His Val Val Val Asp Lys Pro Phe Thr Val Thr Leu Ser Gln Ala Arg
 130 135 140
 Glu Leu Asp Ala Leu Ala Arg Ser Leu Gly Arg Leu Leu Ser Val Phe
 145 150 155 160
 His Asn Arg Arg Trp Asp Ser Asp Phe Leu Thr Val Lys Ala Leu Leu
 165 170 175
 Asn Glu Gly Thr Leu Gly Glu Ile Ala Phe Phe Glu Ser His Phe Asp
 180 185 190
 Arg Tyr Arg Pro Gln Val Arg Asp Arg Trp Arg Glu Gln Ala Gly Pro
 195 200 205
 Gly Ser Gly Ile Trp Tyr Asp Leu Ala Pro His Leu Leu Asp Gln Ala
 210 215 220
 Val His Leu Phe Gly Leu Pro Val Ser Met Thr Val Asp Leu Ala Gln
 225 230 235 240
 Leu Arg Pro Gly Ala Gln Thr Thr Asp Tyr Phe His Ala Ile Leu Ser
 245 250 255
 Tyr Pro Gln Arg Arg Ile Val Leu His Gly Thr Met Leu Ala Ala Ala
 260 265 270
 Glu Ser Ala Arg Tyr Ile Ile His Gly Ala Arg Gly Ser Tyr Val Lys
 275 280 285
 Phe Gly Leu Asp Pro Gln Glu Glu Arg Leu Lys Asn Gly Glu Arg Leu
 290 295 300
 Pro Gln Glu Asp Trp Gly Tyr Asp Met Arg Asp Gly Val Val Thr Arg
 305 310 315 320
 Ala Glu Gly Glu Ala Leu Val Glu Glu Thr Val Leu Thr Leu Pro Gly
 325 330 335
 Asn Tyr Pro Ala Tyr Tyr Ala Ala Ile Arg Asp Ala Leu Asn Gly Ser
 340 345 350
 Gly Glu Asn Pro Val Pro Ala Ser Gln Ala Ile Gln Ile Met Glu Leu
 355 360 365
 Ile Glu Leu Gly Ile Glu Ser Ala Lys His Arg Ala Thr Leu Cys Leu
 370 375 380
 Ala
 385

<210> 6962

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 6962

Phe Lys Arg Ile Ala Val Gly Gln Leu Ala Glu Glu Lys Asp Gly Ile
 1 5 10 15

```

Met Ile Ser Leu Lys Asn Val Ser Lys Trp Tyr Gly His Phe Gln Val
      20      25      30
Leu Thr Asp Cys Ser Thr Glu Val Lys Lys Gly Asp Val Val Val Val
      35      40      45
Cys Gly Pro Ser Gly Ser Gly Lys Ser Thr Leu Ile Lys Thr Val Asn
      50      55      60
Gly Leu Glu Pro Val Gln Gln Gly Glu Ile Val Val Asn Gly Thr Lys
      65      70      75      80
Val Asn Asp Arg Lys Thr Asn Leu Ala Gln Leu Arg Ser His Val Gly
      85      90      95
Met Val Phe Gln His Phe Glu Leu Phe Pro His Leu Ser Ile Ile Glu
      100      105      110
Asn Leu Thr Leu Ala Gln Val Lys Val Leu Lys Arg Asp Lys Lys Ala
      115      120      125
Ala Arg Glu Lys Gly Leu Lys Leu Leu Glu Arg Val Gly Leu Ser Ala
      130      135      140
His Ala Asp Lys Phe Pro Ala Gln Leu Ser Gly Gly Gln Gln Gln Arg
      145      150      155      160
Val Ala Ile Ala Arg Ala Leu Cys Met Asp Pro Val Ala Met Leu Phe
      165      170      175
Asp Glu Pro Thr Ser Ala Leu Asp Pro Glu Met Ile Asn Glu Val Leu
      180      185      190
Asp Val Met Val Glu Leu Ala His Glu Gly Met Thr Met Met Val Val
      195      200      205
Thr His Glu Met Gly Phe Ala Arg Lys Val Pro Asn Arg Val Ile Phe
      210      215      220
Met Asp Glu Gly Lys Ile Val Glu Asp Ser Pro Lys Glu Glu Phe Phe
      225      230      235      240
Ala Asn Pro Lys Ser Glu Arg Ala Lys Asp Phe Leu Ala Lys Ile Leu
      245      250      255
His

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<210> 6963

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 6963

```

Thr Ala Ile Leu Asn Cys Thr Ala Thr Leu Ala Arg Ile Val Ile Met
      1      5      10      15
Gly Gly Ala Met Gly Leu Gly Asn Trp Thr Pro Ala Ala Glu Phe Asn
      20      25      30
Ile Phe Val Asp Pro Glu Ala Ala Glu Ile Val Phe Gln Ser Gly Leu
      35      40      45
Pro Ile Val Met Ala Gly Leu Asp Val Thr His Arg Ala Gln Ile Met
      50      55      60
Val Gln Asp Ile Glu Arg Phe Arg Thr Val Gly Asn Pro Val Ala Thr
      65      70      75      80
Thr Val Ala Glu Leu Leu Asp Phe Phe Met Glu Tyr His Lys Ala Glu
      85      90      95
Lys Trp Gly Phe His Gly Ala Pro Leu His Asp Pro Cys Thr Ile Ala
      100      105      110
Trp Leu Leu Lys Pro Glu Met Phe Thr Thr Val Glu Arg Trp Val Gly
      115      120      125
Val Glu Thr Gln Gly Lys Tyr Thr Gln Gly Met Thr Val Val Asp Tyr
      130      135      140
Tyr Ser Leu Thr Gly Asn Lys Pro Asn Thr Thr Val Met Val Asp Ile
      145      150      155      160
Asp Arg Glu Ala Phe Val Asp Leu Leu Ala Glu Arg Leu Ala Tyr Tyr
      165      170      175

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Met

<210> 6964

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 6964

```

Tyr Phe Phe Thr Thr Glu Lys Asn Glu Met Thr Ile Pro Ala His Ile
1      5      10      15
Trp Leu Ile Asp Asp Asn Gly Ser Pro Leu Ile Gly Glu Cys Leu Met
      20      25      30
Pro Ser Arg Leu Gly Ser Thr Glu Leu Lys Ser Phe Asp His Ser Val
      35      40      45
Trp Ile Pro Thr Asp His Asn Thr Gly Lys Leu Thr Gly Thr Arg Leu
      50      55      60
His Val Pro Ile Arg Phe Lys Lys Glu Ile Asp Arg Leu Thr Pro Tyr
      65      70      75      80
Leu Phe Arg Ala Val Cys Glu Gly Arg Ile Leu Lys Glu Ala Leu Ile
      85      90      95
Lys Met Tyr Lys Ile Asn Asp Ala Gly Ile Glu Leu Glu Tyr Phe Asn
      100      105      110
Ile Lys Leu Glu Asn Val Lys Ile Thr Gln Ile Ser Pro Val Leu Phe
      115      120      125
Pro Val Gly Ile Ala Ser Lys His Met Glu Glu Val Glu Ile Arg Tyr
      130      135      140
Glu Ser Ile Glu Trp Lys Tyr Thr Glu Gly Asn Ile Met Tyr Lys Asp
      145      150      155      160
Ser Trp Asn Glu Arg Val Thr Ala
      165

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<210> 6965

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6965

```

Leu Met Ile Arg Leu Tyr Pro Glu Gln Leu Arg Ala Gln Leu Asn Glu
1      5      10      15
Gly Leu Arg Ala Ala Tyr Leu Leu Leu Gly Asn Asp Pro Leu Leu Leu
      20      25      30
Gln Glu Ser Leu Asp Ala Val Arg His Ala Ala Ala Ala Gln Gly Phe
      35      40      45
Asp Glu His His Thr Phe Gln Ile Asp Asn Ser Thr Asp Trp Asn Ala
      50      55      60
Ile Phe Ser Leu Cys Gln Ala Met Ser Leu Phe Ala Ser Arg Gln Thr
      65      70      75      80
Ile Gln Ile Leu Leu Pro Glu Asn Gly Pro Asn Ala Ala Ile Asn Glu
      85      90      95
Gln Leu Ala Met Leu Val Ser Leu Leu His Gly Asp Leu Leu Leu Ile
      100      105      110
Val Arg Gly Asn Lys Leu Thr Lys Ala Gln Glu Asn Ala Ala Trp Phe
      115      120      125
Thr Arg Leu Thr Pro Ser Ala Val Leu Val Ser Cys Gln Thr Pro Glu
      130      135      140
Gln Ala His Leu Pro Lys Trp Val Ala Ala Arg Ala Lys Gln His Asn
      145      150      155      160
Leu Gln Leu Asp Glu Ala Ala Ser Gln Leu Leu Cys Tyr Cys Tyr Glu
      165      170      175
Gly Asn Leu Leu Ala Leu Ala Gln Ala Leu Asp Arg Leu Ala Leu Leu

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<210> 6966
<211> 638
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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                260                265                270
Ser Arg Ala Ala Val Ile Val Thr Asp Pro Arg Thr Gly Gly Ile Leu
                275                280                285
Ala Met Val Ser Met Pro Ser Tyr Asp Pro Asn Leu Phe Val Asp Gly
                290                295                300
Ile Ser Ser Lys Asp Tyr Ser Gly Leu Leu Asn Asp Pro Asn Thr Pro
305                310                315
Leu Val Asn Arg Ala Thr Gln Gly Val Tyr Pro Pro Ala Ser Thr Val
                320                325                330
Lys Pro Tyr Val Ala Val Ser Ala Leu Ser Ala Gly Val Ile Thr Arg
                335                340                345
Asn Thr Ser Leu Phe Asp Pro Gly Trp Trp Gln Leu Pro Gly Ser Glu
355                360                365
Lys Arg Tyr Arg Asp Trp Lys Lys Trp Gly His Gly His Leu Asn Val
370                375                380
Thr Lys Ser Leu Glu Glu Ser Ala Asp Thr Phe Phe Tyr Gln Val Ala
385                390                395
Tyr Asp Met Gly Ile Asp Arg Leu Ser Glu Trp Met Ser Lys Phe Gly
                400                405                410
Tyr Gly His Tyr Thr Gly Ile Asp Leu Ala Glu Glu Arg Ser Gly Asn
                415                420                425
Met Pro Thr Arg Glu Trp Lys Leu Lys Arg Phe Lys Lys Pro Trp Tyr
                430                435                440
Gln Gly Asp Thr Ile Pro Val Gly Ile Gly Gln Gly Tyr Trp Thr Ala
445                450                455
Thr Pro Leu Gln Met Asn Lys Ala Met Met Ile Leu Ile Asn Asp Gly
465                470                475
Val Val Lys Val Pro His Leu Leu Gln Ser Thr Val Glu Asp Gly Lys
                480                485                490
Lys Val Pro Trp Ile Gln Pro His Glu Pro Pro Val Gly Asp Ile His
                495                500                505
Ser Gly Tyr Trp Glu Ile Ala Lys Asp Gly Met Tyr Gly Val Ala Asn
515                520                525
Arg Pro Asn Gly Thr Ala His Lys Tyr Phe Ala Gly Ala Pro Tyr Lys
530                535                540
Val Ala Ala Lys Ser Gly Thr Ala Gln Val Phe Gly Leu Lys Ala Asn
545                550                555
Glu Thr Tyr Asn Ala His Lys Ile Ala Glu Arg Leu Arg Asp His Lys
                560                565                570
Leu Met Thr Ala Phe Ala Pro Tyr Asp Asn Pro Gln Val Ala Val Ala
                575                580                585
Met Ile Leu Glu Asn Gly Gly Ala Gly Pro Ala Val Gly Thr Ile Met
595                600                605
Arg Gln Ile Leu Asp His Ile Met Leu Gly Asp Asn Asn Thr Glu Leu
610                615                620
Pro Ala Glu Asn Pro Ala Ala Ala Ala Glu Asp Gln
625                630                635

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<210> 6967

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 6967

```

Trp Pro Gly Leu Val Ser Ser Cys Arg Ser Ile Pro Thr Gly Lys Cys
1                5                10                15
Cys Pro Lys Ala Tyr Lys Asn Lys Gly Ile Ala Met Arg Lys Gln Trp
                20                25                30
Leu Gly Ile Cys Ile Ala Ala Ser Leu Leu Ala Ala Cys Thr Ser Asp
35                40                45
Asp Gly Gln Gln Gln Ala Thr Val Ala Pro Pro Gln Pro Ala Val Cys

```

50	55	60
Asn Gly Pro Ile Val	Glu Ile Ser Gly	Ala Asp Pro Val Tyr Glu Pro
65	70	75
Leu Asn Ala Ser Val	Asn Gln Asp Tyr	Gln Arg Asp Gly Lys Ser Tyr
85	90	95
Lys Ile Val Gln Asp	Pro Ser Arg Phe	Ser Gln Ala Gly Phe Ala Ala
100	105	110
Ile Tyr Asp Ala Glu	Pro Gly Ser Asn	Leu Thr Ala Ser Gly Glu Thr
115	120	125
Phe Asp Pro Met Gln	Ile Thr Ala Ala His	Pro Thr Leu Pro Val Pro
130	135	140
Ser Tyr Ala Arg Ile	Thr Asn Leu Ala Asn	Gly Arg Met Ile Val Val
145	150	155
Arg Ile Thr Leu His	His Val Ala Arg	Ser Leu Arg Pro Ser Asn
165	170	175

<210> 6968

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 6968

Val Val Val Pro	His Ser Ala	Gln Lys Leu	Ser Phe Ser	Pro Ile Phe
1	5	10	15	15
Glu Gly Ser Ala	Thr Leu Phe	Phe Leu Glu	Phe Thr Met	Ser Ile
20	25	30	35	40
Asp Trp Asn Trp	Gly Ile Phe	Leu Gln Ala	Pro Phe Gly	Asn Thr
35	40	45	50	55
Thr Tyr Leu Gly	Trp Leu Trp	Ser Gly Phe	Gln Val Thr	Val Ala Leu
50	55	60	65	70
Ser Ile Thr Ala	Trp Ile Ala	Phe Leu Val	Gly Ser Leu	Phe Gly
65	70	75	80	85
Ile Leu Arg Thr	Val Pro Asn	Arg Phe Leu	Ser Ser Ile	Gly Thr Leu
85	90	95	100	105
Tyr Val Glu Leu	Phe Arg Asn	Val Pro Leu	Ile Val Gln	Phe Phe Thr
100	105	110	115	120
Trp Tyr Leu Val	Ile Pro Glu	Leu Leu Pro	Glu Asp Leu	Gly Met Trp
115	120	125	130	135
Phe Lys Ala Glu	Leu Asp Pro	Asn Val Gln	Phe Phe Val	Ser Ser Met
130	135	140	145	150
Leu Cys Leu Gly	Leu Phe Thr	Ala Ala Arg	Val Cys Glu	Gln Val Arg
145	150	155	160	165
Ala Ala Ile Gln	Ser Leu Pro	Arg Gly Gln	Lys Asn Ala	Ala Leu Ala
165	170	175	180	185
Met Gly Leu Thr	Leu Pro Gln	Ala Tyr Arg	Tyr Val Leu	Leu Pro Asn
180	185	190	195	200
Ala Tyr Arg Val	Ile Val Pro	Pro Met Thr	Ser Glu Met	Met Asn Leu
195	200	205	210	215
Val Lys Asn Ser	Ala Ile Ala	Ser Thr Ile	Gly Leu Val	Asp Met Ala
210	215	220	225	230
Ala Gln Ala Gly	Lys Leu Asp	Tyr Ser Ala	His Ala Trp	Glu Ser
225	230	235	240	245
Phe Thr Ala Ile	Thr Leu Ala	Tyr Val Leu	Ile Asn Ala	Phe Ile Met
245	250	255	260	265
Leu Val Met Asn	Leu Val Glu	Arg Lys Val	Arg Leu Pro	Gly Asn Leu
260	265	270	275	
Gly Gly Lys				
275				

<210> 6969

<211> 225

<212> PRT

<213> Enterobacter cloacae

<400> 6969

```

Met Tyr Asp Phe Asp Trp Ser Ser Ile Val Pro Ser Met Pro Tyr Leu
1      5      10      15
Leu Asp Gly Leu Ala Ile Thr Leu Lys Ile Thr Val Ile Ala Ile Ile
      20      25      30
Val Gly Ile Val Trp Gly Thr Leu Leu Ala Val Met Arg Leu Ser Ser
      35      40      45
Phe Lys Pro Leu Ala Trp Phe Ala Thr Ala Tyr Val Asn Val Phe Arg
50      55      60
Ser Ile Pro Leu Val Met Val Leu Leu Trp Phe Tyr Leu Ile Val Pro
65      70      75      80
Gly Phe Leu Gln Asn Val Leu Gly Leu Ser Pro Lys Thr Asp Ile Arg
      85      90      95
Leu Ile Ser Ala Met Val Ala Phe Ser Met Phe Glu Ala Ala Tyr Tyr
      100      105      110
Ser Glu Ile Ile Arg Ala Gly Ile Gln Ser Ile Ser Arg Gly Gln Ser
115      120      125
Ser Ala Ala Leu Ala Leu Gly Met Thr His Trp Gln Ser Met Lys Leu
130      135      140
Ile Ile Leu Pro Gln Ala Phe Arg Ala Met Val Pro Leu Leu Leu Thr
145      150      155      160
Gln Gly Ile Val Leu Phe Gln Asp Thr Ser Leu Val Tyr Val Leu Ser
      165      170      175
Leu Ala Asp Phe Phe Arg Thr Ala Ser Thr Ile Gly Glu Arg Asp Gly
      180      185      190
Thr Gln Val Glu Met Ile Leu Phe Ala Gly Gly Val Tyr Phe Val Ile
195      200      205
Ser Leu Ser Ala Ser Leu Leu Val Ser Trp Leu Lys Lys Arg Thr Val
210      215      220

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225

<210> 6970

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6970

```

Ile Ala Glu Ser Gly Arg Trp Leu Ser Ala Gly Gly Asn Val Arg Gln
1      5      10      15
Leu Ala Thr Ile Leu Leu Ser Leu Ala Val Leu Val Thr Ala Gly Cys
      20      25      30
Gly Trp His Leu Arg Asn Thr Thr Ala Val Pro Ala Gln Met Lys Thr
      35      40      45
Met Ile Phe Asp Ser Ser Asp Pro Asn Gly Pro Leu Ser Arg Ala Ile
50      55      60
Arg Asn Gln Leu Arg Leu Asn Asp Val Glu Leu Ile Glu Lys Gly Thr
65      70      75      80
Leu Arg Gln Asp Val Pro Ser Leu Arg Val Leu Lys Ser Thr Leu Ala
      85      90      95
Lys Asp Thr Ala Ser Ile Phe Gln Asp Gly Arg Thr Ala Glu Tyr Gln
      100      105      110
Met Val Leu Thr Val Ser Ala Ala Val Leu Met Pro Gly Lys Asp Ile
115      120      125
Tyr Pro Ile Ser Thr Lys Val Tyr Arg Ser Phe Phe Asp Asn Pro Gln
130      135      140
Thr Ala Leu Ala Lys Asp Ala Glu Glu Gln Ile Ile Ile Lys Glu Met
145      150      155      160

```

Tyr Asp Lys Ala Ala Glu Gln Leu Ile Arg Lys Leu Pro Thr Ile Ala
 165 170 175
 Ala Ser Thr Lys Lys Gly Ala Asp Val Ile Glu Thr Pro Asp Ala Arg
 180 185 190
 Thr Pro Asp Met Pro Thr Ser Leu Gly Asn
 195 200

<210> 6971

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6971

Asn Arg Ile Thr Val Ser Leu Ser Gly Arg Ser Trp Arg Val Ser Leu
 1 5 10 15
 Cys Cys Ser Ala Ile Arg Leu Trp Gln Thr Tyr Leu Ser Met Gly Asp
 20 25 30
 Met His Ser Leu Gln Ala Met Tyr Gly Gly Thr Phe Asp Pro Val His
 35 40 45
 Tyr Gly His Leu Lys Pro Val Glu Ile Leu Ala Asn Leu Ile Gly Leu
 50 55 60
 Gln Arg Val Ile Ile Met Pro Asn Asn Val Pro His Arg Pro Gln
 65 70 75 80
 Pro Glu Ala Thr Ser Glu Gln Arg Lys Ala Met Leu Ala Leu Ala Ile
 85 90 95
 Ala Asp Lys Pro Leu Phe Thr Leu Asp Glu Arg Glu Leu Arg Arg Asp
 100 105 110
 Thr Pro Ser Trp Thr Ser Gln Thr Leu Arg Glu Trp Arg Ala Glu Gln
 115 120 125
 Gly Pro Met Lys Pro Leu Ala Phe Ile Ile Gly Gln Asp Ser Leu Leu
 130 135 140
 Asn Phe Pro Ser Trp Tyr Gln Tyr Glu Thr Ile Leu Glu Asn Ser His
 145 150 155 160
 Leu Leu Val Cys Arg Arg Pro Gly Tyr Pro Leu Thr Met Arg Asp Ala
 165 170 175
 Gln His Gln Gln Trp Leu Asp Ala His Leu Thr Asp Asn Ile Glu Asp
 180 185 190
 Leu His Ser Leu Pro Ala Gly Lys Ile Tyr Leu Ala Glu Thr Pro Trp
 195 200 205
 Phe Asp Ile Ser Ala Thr Leu Ile Arg Glu Arg Leu Gln Gln Gly Leu
 210 215 220
 Asp Cys Asp Asp Leu Leu Pro Ser Pro Val Leu Ala Tyr Ile Leu Ala
 225 230 235 240
 His Gly Leu Tyr Gln Lys Ser Thr Asp Val
 245 250

<210> 6972

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 6972

Asp Asn Trp Glu Ile Val Gly Thr Ala Gln Ser Lys Glu Ala Tyr Gly
 1 5 10 15
 Cys Met Leu Arg Lys Gly Asp Glu Asp Phe Lys Lys Leu Ile Asp Asp
 20 25 30
 Thr Ile Ala Gln Ala Gln Thr Ser Gly Glu Ala Ala Lys Trp Phe Asp
 35 40 45
 Lys Trp Phe Lys Asn Pro Ile Pro Pro Lys Asn Leu Asn Met Asn Phe
 50 55 60
 Glu Leu Ser Asp Asp Met Lys Ala Leu Phe Lys Ser Pro Asn Asp Lys

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<210> 6973
<211> 194
<212> PRT
<213> Enterobacter cloacae
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400> 6973																
Ile	Ser	Phe	Ser	Ile	Arg	Arg	His	Ile	Ala	Ala	Leu	Thr	Leu	Ser	Gln	
1			5					10					15			
Ile	Met	Leu	Arg	Met	Glu	Asn	Ala	Met	Ala	Gln	Pro	Ile	Ile	Leu	Asp	
			20					25					30			
Cys	Asp	Pro	Gly	His	Asp	Asp	Ala	Ile	Ala	Leu	Val	Leu	Ala	Leu	Ala	
			35				40					45				
Ser	Pro	Glu	Leu	Asp	Val	Lys	Ala	Val	Thr	Ser	Ser	Ala	Gly	Asn	Gln	
			50			55					60					
Thr	Pro	Asp	Lys	Thr	Leu	Arg	Asn	Val	Leu	Arg	Met	Leu	Thr	Leu	Leu	
65				70						75				80		
Lys	Arg	Thr	Asp	Ile	Pro	Val	Ala	Gly	Gly	Ala	Val	Lys	Pro	Leu	Met	
			85					90						95		
Arg	Glu	Leu	Ile	Ile	Ala	Asp	Asn	Val	His	Gly	Glu	Ser	Gly	Leu	Asp	
			100					105					110			
Gly	Pro	Ala	Leu	Pro	Glu	Pro	Asp	Phe	Ala	Pro	Gln	Asn	Cys	Thr	Ala	
			115				120					125				
Val	Glu	Leu	Met	Ala	Lys	Val	Leu	Arg	Glu	Ser	Ala	Glu	Pro	Val	Thr	
			130			135					140					
Leu	Val	Ala	Thr	Gly	Pro	Gln	Thr	Asn	Val	Ala	Leu	Leu	Leu	Asn	Ser	
145					150					155				160		
His	Pro	Glu	Leu	His	Ser	Asn	Thr	Arg	Pro	Tyr	Arg	His	His	Gly	Arg	
			165						170					175		
Gly	Asn	Gly	Ala	Gly	Glu	Leu	Asp	Ala	Ser	Ser	Arg	Val	Gln	His	Leu	
			180					185					190			
Arg																

```
<210> 6974
<211> 904
<212> PRT
<213> Enterobacter cloacae
```

400> 6974																
Ile	Pro	Ala	Lys	Cys	Ile	Cys	Val	Lys	Gly	Cys	Phe	Asp	Ala	Gly	Val	
1			5					10					15			
Trp	Ala	Met	Leu	Cys	Gly	Ser	Glu	Leu	Pro	His	Pro	Leu	Ala	Thr	Phe	
			20					25					30			
Val	Ala	Val	Leu	Asn	Thr	Gly	Pro	Leu	Ala	Ala	Met	Gln	Glu	Gln	Tyr	
			35				40					45				
Arg	Pro	Glu	Glu	Ile	Glu	Ser	Lys	Val	Gln	Gln	His	Trp	Asp	Glu	Lys	
	50					55					60					
Arg	Thr	Phe	Glu	Val	Thr	Glu	Asp	Glu	Ser	Lys	Glu	Lys	Tyr	Tyr	Cys	
65					70					75					80	
Leu	Ser	Met	Leu	Pro	Tyr	Pro	Ser	Gly	Arg	Leu	His	Met	Gly	His	Val	
				85					90				95			
Arg	Asn	Tyr	Thr	Ile	Gly	Asp	Val	Ile	Ala	Arg	Tyr	Gln	Arg	Met	Leu	
			100					105					110			
Gly	Lys	Asn	Val	Leu	Gln	Pro	Ile	Gly	Trp	Asp	Ala	Phe	Gly	Leu	Pro	
		115					120					125				
Ala	Glu	Gly	Ala	Ala	Val	Lys	Asn	Asn	Thr	Ala	Pro	Ala	Pro	Trp	Thr	
	130					135						140				

Tyr Asp Asn Ile Ala Tyr Met Lys Asn Gln Leu Lys Met Leu Gly Phe
 145 150 155 160
 Gly Tyr Asp Trp Ser Arg Glu Leu Ala Thr Cys Thr Pro Glu Tyr Tyr
 165 170 175
 Arg Trp Glu Gln Lys Phe Phe Thr Glu Leu Tyr Lys Lys Gly Leu Val
 180 185 190
 Tyr Lys Lys Thr Ser Ala Val Asn Trp Cys Pro Asn Asp Gln Thr Val
 195 200 205
 Leu Ala Asn Glu Gln Val Ile Asp Gly Cys Cys Trp Arg Cys Asp Thr
 210 215 220
 Lys Val Glu Arg Lys Glu Ile Pro Gln Trp Phe Ile Lys Ile Thr Ala
 225 230 235 240
 Tyr Ala Asp Glu Leu Leu Asn Asp Leu Asp Asn Leu Asp His Trp Pro
 245 250 255
 Asp Thr Val Lys Thr Met Gln Arg Asn Trp Ile Gly Arg Ser Glu Gly
 260 265 270
 Val Glu Ile Thr Phe Asn Val Glu Asn Tyr Asp Gln Thr Leu Thr Val
 275 280 285
 Tyr Thr Thr Arg Pro Asp Thr Phe Met Gly Ala Thr Tyr Leu Ala Val
 290 295 300
 Ala Ala Gly His Pro Leu Ala Gln Asn Ala Ala Glu Asn Asn Pro Glu
 305 310 315 320
 Leu Ala Thr Phe Ile Asp Glu Cys Arg Asn Thr Lys Val Ala Glu Ala
 325 330 335
 Asp Met Ala Thr Met Glu Lys Lys Gly Val Asp Thr Gly Phe Lys Ala
 340 345 350
 Ile His Pro Leu Thr Gly Glu Ala Ile Pro Val Trp Ala Ala Asn Phe
 355 360 365
 Val Leu Met Glu Tyr Gly Thr Gly Ala Val Met Ala Val Pro Gly His
 370 375 380
 Asp Gln Arg Asp Tyr Glu Phe Ala Thr Lys Tyr Gly Leu Thr Ile Lys
 385 390 395 400
 Pro Val Ile Leu Ala Ala Asp Gly Ser Glu Pro Asp Leu Ser Glu Gln
 405 410 415
 Ala Leu Thr Glu Lys Gly Thr Leu Phe Asn Ser Gly Glu Phe Ser Gly
 420 425 430
 Leu Ser Phe Glu Glu Gly Phe Asn Ala Ile Ala Asp Lys Leu Ala Ser
 435 440 445
 Leu Gly Val Gly Glu Arg Lys Val Asn Tyr Arg Leu Arg Asp Trp Gly
 450 455 460
 Val Ser Arg Gln Arg Tyr Trp Gly Ala Pro Ile Pro Met Val Thr Leu
 465 470 475 480
 Glu Asp Gly Thr Val Met Pro Thr Pro Glu Asp Gln Leu Pro Val Ile
 485 490 495
 Leu Pro Glu Asp Val Val Met Asp Gly Ile Thr Ser Pro Ile Lys Ala
 500 505 510
 Asp Pro Glu Trp Ala Lys Thr Thr Val Asn Gly Gln Pro Ala Leu Arg
 515 520 525
 Glu Thr Asp Thr Phe Asp Thr Phe Met Glu Ser Ser Trp Tyr Tyr Ala
 530 535 540
 Arg Tyr Thr Cys Pro Gln Tyr Lys Glu Gly Met Leu Asp Ser Asp Ala
 545 550 555 560
 Ala Asn Tyr Trp Leu Pro Val Asp Ile Tyr Ile Gly Gly Ile Glu His
 565 570 575
 Ala Ile Met His Leu Leu Tyr Phe Arg Phe Phe His Lys Leu Met Arg
 580 585 590
 Asp Ala Gly Leu Val Asn Ser Asp Glu Pro Ala Lys Gln Leu Leu Cys
 595 600 605
 Gln Gly Met Val Leu Ala Asp Ala Phe Tyr Tyr Val Gly Ala Asn Gly
 610 615 620
 Glu Arg Asn Trp Val Ser Pro Val Asp Ala Ile Val Glu Arg Asp Glu

```

625          630          635          640
Lys Gly Arg Ile Val Lys Ala Lys Asp Ala Glu Gly His Glu Leu Val
645          650          655
Tyr Thr Gly Met Ser Lys Met Ser Lys Ser Lys Asn Asn Gly Ile Asp
660          665          670
Pro Gln Val Met Val Glu Arg Tyr Gly Ala Asp Thr Val Arg Leu Phe
675          680          685
Met Met Phe Ala Ser Pro Ala Asp Met Thr Leu Glu Trp Gln Glu Ser
690          695          700
Gly Val Glu Gly Ala Asn Arg Phe Leu Lys Arg Val Trp Lys Leu Val
705          710          715          720
Tyr Glu His Thr Ser Gln Gly Asp Ala Pro Ala Leu Asn Val Ala Ala
725          730          735
Leu Thr Glu Asp Gln Gln Ala Leu Arg Arg Asp Val His Lys Thr Ile
740          745          750
Ala Lys Val Thr Asp Asp Ile Gly Arg Arg Gln Thr Phe Asn Thr Ala
755          760          765
Ile Ala Ala Ile Met Glu Leu Met Asn Lys Leu Ala Lys Ala Pro Gln
770          775          780
Asp Gly Glu Gln Asp Arg Ala Leu Met Arg Glu Ala Leu Leu Ala Val
785          790          795          800
Val Arg Met Leu Asn Pro Phe Thr Pro His Val Ser Phe Thr Leu Trp
805          810          815
Gln Glu Leu Lys Gly Glu Gly Asp Ile Asp Asn Ala Pro Trp Pro Val
820          825          830
Ala Asp Glu Ser Ala Met Val Glu Asn Thr Thr Leu Val Val Val Gln
835          840          845
Val Asn Gly Lys Val Arg Gly Lys Ile Thr Val Ala Val Asp Ala Thr
850          855          860
Glu Glu Gln Val Arg Glu Arg Ala Gly Gln Glu His Leu Val Ala Lys
865          870          875          880
Tyr Leu Glu Gly Val Thr Val Arg Lys Val Ile Tyr Val Pro Gly Lys
885          890          895
Leu Leu Asn Leu Val Val Gly
900

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<210> 6975

<211> 135

<212> PRT

<213> Enterobacter cloacae

<400> 6975

```

His Leu Ser Arg Asp Trp Arg Gln Phe Arg Tyr Thr Asp Trp Pro Arg
1          5          10          15
Ile His Ser Cys Thr Ile Ser Phe Thr Gln Gly Glu Asn Leu Gln Gly
20          25          30
Lys Ala Leu Gln Asp Phe Val Ile Asp Lys Ile Asp Asp Leu Lys Gly
35          40          45
Gln Asp Ile Ile Ala Ile Asp Val Lys Gly Lys Ser Ser Ile Thr Asp
50          55          60
Cys Met Ile Ile Cys Thr Gly Thr Ser Thr Arg His Val Val Ser Ile
65          70          75          80
Ala Asp His Val Val Gln Glu Ser Arg Ala Ala Gly Leu Leu Pro Leu
85          90          95
Gly Val Glu Gly Glu Ala Thr Ala Asp Trp Val Val Val Asp Leu Gly
100          105          110
Asp Val Ile Val His Val Met Gln Glu Glu Ser Arg Arg Leu Tyr Glu
115          120          125
Leu Glu Lys Leu Trp Gly
130          135

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<210> 6976
 <211> 157
 <212> PRT
 <213> Enterobacter cloacae

<400> 6976
 Cys Val Lys Leu Gln Leu Val Ala Val Gly Thr Lys Met Pro Asp Trp
 1 5 10 15
 Val Gln Thr Gly Phe Thr Glu Tyr Leu Arg Arg Phe Pro Lys Asp Met
 20 25 30
 Pro Phe Glu Leu Val Glu Ile Pro Ala Gly Lys Arg Gly Lys Asn Ala
 35 40 45
 Asp Ile Lys Arg Ile Leu Asp Lys Glu Gly Glu Leu Met Leu Ala Ala
 50 55 60
 Ala Gly Lys Asn Arg Ile Val Thr Leu Asp Ile Pro Gly Lys Pro Trp
 65 70 75 80
 Asp Thr Pro Gln Leu Ala His Glu Leu Gly Arg Trp Lys Gln Asp Gly
 85 90 95
 Arg Asp Val Ser Leu Leu Ile Gly Gly Pro Glu Gly Leu Ser Pro Ala
 100 105 110
 Cys Lys Ala Ala Ala Glu Gln Ser Trp Ser Leu Ser Ala Leu Thr Leu
 115 120 125
 Pro His Pro Leu Val Arg Val Leu Val Ala Glu Ser Leu Tyr Arg Ala
 130 135 140
 Trp Ser Ile Thr Thr Asn His Pro Tyr His Arg Glu
 145 150 155

<210> 6977
 <211> 383
 <212> PRT
 <213> Enterobacter cloacae

<400> 6977
 Lys Pro Gly Ser Arg Cys Gly Gly Gly Pro Ile Ile Met Thr Asp Asn
 1 5 10 15
 Pro Asn Lys Lys Ser Leu Trp Asp Lys Ile His Ile Asp Pro Ala Met
 20 25 30
 Leu Leu Ile Leu Leu Ala Leu Leu Val Tyr Ser Ala Leu Val Ile Trp
 35 40 45
 Ser Ala Ser Gly Gln Asp Ile Gly Met Met Glu Arg Lys Ile Gly Gln
 50 55 60
 Ile Ala Met Gly Leu Val Ile Met Val Val Met Ala Gln Ile Pro Pro
 65 70 75 80
 Arg Val Tyr Glu Gly Trp Ala Pro Tyr Leu Tyr Ile Phe Cys Ile Ile
 85 90 95
 Leu Leu Val Ala Val Asp Ala Phe Gly Ala Ile Ser Lys Gly Ala Gln
 100 105 110
 Arg Trp Leu Asp Leu Gly Ile Val Arg Phe Gln Pro Ser Glu Ile Ala
 115 120 125
 Lys Ile Ala Val Pro Leu Met Val Ala Arg Phe Ile Asn Arg Asp Val
 130 135 140
 Cys Pro Pro Ser Leu Lys Asn Thr Ala Ile Ala Leu Val Leu Ile Phe
 145 150 155 160
 Leu Pro Thr Leu Leu Val Ala Ala Gln Pro Asp Leu Gly Thr Ser Ile
 165 170 175
 Leu Ile Ala Leu Ser Gly Leu Phe Val Leu Phe Leu Ser Gly Leu Ser
 180 185 190
 Trp Arg Leu Ile Gly Ile Ala Val Val Leu Val Ala Ala Phe Ile Pro
 195 200 205
 Ile Leu Trp Phe Phe Leu Met His Asp Tyr Gln Arg Gln Arg Val Met
 210 215 220

```

Met Leu Leu Asp Pro Glu Thr Asp Pro Leu Gly Ala Gly Tyr His Ile
225          230          235          240
Ile Gln Ser Lys Ile Ala Ile Gly Ser Gly Gly Leu Arg Gly Lys Gly
          245          250          255
Trp Leu His Gly Thr Gln Ser Gln Leu Glu Phe Leu Pro Glu Arg His
          260          265          270
Thr Asp Phe Ile Phe Ala Val Leu Ala Glu Glu Leu Gly Leu Val Gly
          275          280          285
Ile Leu Val Leu Leu Ala Leu Tyr Val Leu Leu Ile Met Arg Gly Leu
          290          295          300
Trp Ile Ala Ala Arg Ala Gln Thr Thr Phe Gly Arg Val Met Ala Gly
305          310          315          320
Gly Leu Met Leu Ile Leu Phe Val Tyr Val Phe Val Asn Ile Gly Met
          325          330          335
Val Ser Gly Ile Leu Pro Val Val Gly Val Pro Leu Pro Leu Val Ser
          340          345          350
Tyr Gly Gly Ser Ala Leu Ile Val Leu Met Ala Gly Phe Gly Ile Val
          355          360          365
Met Ser Ile His Thr His Arg Lys Met Leu Ser Lys Ser Val
          370          375          380

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<210> 6978

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6978

```

Gly Leu Leu Leu Glu Thr Val Thr Tyr Pro Gly Gly Lys Met Met Asn
1          5          10          15
Lys Val Ala Gln Phe Tyr Arg Glu Leu Val Ala Thr Leu Thr Glu Arg
          20          25          30
Leu Arg Asn Gly Glu Arg Asp Ile Asp Ala Leu Val Glu Gln Ala Arg
          35          40          45
Ala Arg Val Thr Gln Thr Gly Glu Leu Thr Arg Thr Glu Val Glu Glu
          50          55          60
Val Thr Arg Ala Val Arg Arg Asp Leu Glu Glu Phe Ala Arg Ser Tyr
          65          70          75          80
Glu Glu Ser Gln Asp Glu Ile Ala Asp Ser Val Phe Met Arg Val Ile
          85          90          95
Lys Glu Ser Leu Trp Gln Glu Leu Ala Asp Ile Thr Asp Lys Thr Gln
          100          105          110
Leu Glu Trp Arg Glu Val Phe Gln Asp Leu Asn His His Gly Val Tyr
          115          120          125
His Ser Gly Glu Val Val Gly Leu Gly Asn Leu Val Cys Glu Lys Cys
          130          135          140
His His His Ile Ala Val Tyr Thr Pro Glu Val Leu Ser Leu Cys Pro
          145          150          155          160
Lys Cys Gly His Asp Gln Phe Gln Arg Arg Pro Phe Glu Pro
          165          170          175

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<210> 6979

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6979

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Leu Tyr Ala Gln Asn Thr Cys Cys Ser Glu Thr Glu Ala Glu Pro Gly
1          5          10          15
Met Asn Thr Phe Phe Lys Leu Thr Ala Leu Ala Gly Leu Phe Ala Ile
          20          25          30
Thr Gly His Ala Phe Ala Val Asp Asp Ile Thr Arg Val Asp Gln Ile

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      35          40          45
Pro Val Leu Lys Glu Glu Thr Gln His Ala Thr Val Ser Glu Arg Val
  50          55          60
Thr Ser Arg Phe Thr Arg Ser His Tyr Arg Gln Phe Asp Leu Asp Gln
  65          70          75          80
Ala Phe Ser Ala Lys Ile Phe Asp Arg Tyr Leu Asn Leu Leu Asp Tyr
      85          90          95
Ser His Asn Val Leu Leu Ala Ser Asp Val Glu Gln Phe Ala Lys Arg
      100          105          110
Lys Ser Glu Val Gly Asp Glu Leu Arg Ser Gly Lys Leu Asp Leu Phe
      115          120          125
Tyr Asp Leu Tyr Asn Leu Ser Gln Asn Arg Arg Phe Asp Arg Leu Phe
      130          135          140
Thr Ser Glu
145

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<210> 6980

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 6980

```

Lys Phe Gly Arg Lys Pro Pro Asp Val Thr Gly Gln Asn Gly Pro Ala
  1          5          10          15
Val Val Cys Ile His Arg Val Thr Gln Leu Leu Arg Gln Pro Val Pro
      20          25          30
Gly Gly Glu Ile Pro Glu Gln Gln Leu His Gln Gln Arg Arg Ile Ala
      35          40          45
Lys Gln Arg Tyr Pro Ala Ala Asp Glu Arg Arg Pro Glu Thr Ser Pro
      50          55          60
Gly Lys Pro Gln Lys His Lys Glu Gln Gly Glu Gln Ala Cys Gln His
  65          70          75          80
Asn Pro Arg Gln Arg His Pro Gln Ser Gly Glu Lys Ser Gly Glu Asp
      85          90          95
Pro Val Gln Gly Leu Ser Gly Gln His Pro Leu Pro Val Gln Ser Gly
      100          105          110
His Tyr Ser Cys Ser
115

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<210> 6981

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 6981

```

Thr Leu Ile Asn Thr His Arg Asn His Ile Met Lys Lys Thr Leu Thr
  1          5          10          15
Leu Ile Ala Ala Ala Thr Leu Ser Ala Leu Ser Phe Ala Ser Trp Ala
      20          25          30
Asp Thr Leu Thr Val Gly Ala Ser Asn Thr Pro His Ala Glu Ile Leu
      35          40          45
Glu Gln Ala Lys Pro Ile Leu Ala Lys Gln Gly Ile Asp Leu Glu Ile
      50          55          60
Lys Pro Phe Gln Asp Tyr Ile Leu Pro Asn Thr Ala Leu Ala Gly His
  65          70          75          80
Asp Ile Asp Ala Asn Tyr Phe Gln His Ile Pro Tyr Leu Asn Ser Val
      85          90          95
Leu Lys Asp His Ala Gly Asp Lys Asp Tyr Asp Phe Val Ser Ala Gly
      100          105          110
Ala Ile His Ile Glu Pro Ile Gly Ile Tyr Ser Lys Lys Tyr Lys Ser
      115          120          125

```

Leu Lys Asp Leu Pro Glu Gly Gly Lys Ile Ile Met Arg Asp Ala Val
 130 135 140
 Ser Glu Glu Gly Arg Ile Leu Ser Ile Phe Glu Lys Glu Gly Val Ile
 145 150 155 160
 Lys Leu Lys Pro Gly Ile Asp Lys Val Thr Ala Arg Ile Ser Asp Ile
 165 170 175
 Val Glu Asn Pro Lys Lys Leu Gln Phe Thr Pro Asn Val Glu Ala Ser
 180 185 190
 Leu Leu Pro Gln Met Tyr Asn Asn Asp Glu Gly Ala Ala Val Val Ile
 195 200 205
 Asn Ala Asn Tyr Ala Ile Asp Ala Gly Leu Asp Pro Val His Asp Pro
 210 215 220
 Ile Ala Val Glu Ser Gly Glu Asn Asn Pro Tyr Ala Asn Ile Ile Thr
 225 230 235 240
 Val His Arg Gly Asp Glu Lys Lys Lys Asp Ile Val Ala Leu Val Asn
 245 250 255
 Val Leu His Ser Lys Glu Ile Gln Asp Trp Ile Arg Thr Lys Tyr Lys
 260 265 270
 Gly Ala Val Ile Pro Val Asn Asn
 275 280

<210> 6982

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 6982

Gly Asn Gly Val Met Ala Met Gly Asn Val Thr Lys Asp Glu Ala Leu
 1 5 10 15
 Tyr Gln Glu Met Cys Arg Val Val Gly Lys Val Val Leu Glu Met Arg
 20 25 30
 Asp Leu Gly Gln Glu Pro Lys His Ile Val Ile Ala Gly Val Leu Arg
 35 40 45
 Thr Ala Leu Ala Asn Gln Arg Val Lys Arg Ser Glu Leu Thr Thr Lys
 50 55 60
 Ala Met Glu Thr Val Val Lys Ala Leu Ala Gly
 65 70 75

<210> 6983

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6983

Arg Ile Arg Met Ile Val Leu Ser Asn Ile Ser Lys Val Phe Asp Asn
 1 5 10 15
 Gly Lys Leu Ala Leu Thr Ala Val Asp Asn Val Asn Leu Thr Ile Glu
 20 25 30
 Gln Gly Gln Ile Tyr Gly Ile Ile Gly Tyr Ser Gly Ala Gly Lys Ser
 35 40 45
 Thr Leu Ile Arg Leu Leu Asn Gly Leu Glu Lys Pro Ser Ala Gly Ser
 50 55 60
 Val Thr Ile Asn Gly Gln Asp Ile Ser Ala Ala Lys Gly Glu Ala Leu
 65 70 75 80
 Arg Gln Ala Arg Leu Lys Ile Ser Met Val Phe Gln His Phe Asn Leu
 85 90 95
 Leu Trp Ser Arg Thr Val Lys Glu Asn Ile Ala Phe Ser Met Gln Ile
 100 105 110
 Ala Gly Val Pro Lys Ala Gln Ile Gln Ala Arg Val Ala Glu Leu Val
 115 120 125
 Glu Leu Val Gly Leu Lys Gly Arg Glu Asn Ala Tyr Pro Ser Gln Leu

130 135 140
 Ser Gly Gly Gln Lys Gln Arg Val Gly Ile Ala Arg Ala Leu Ala Asn
 145 150 155 160
 His Pro Asp Val Leu Leu Cys Asp Glu Ala Thr Ser Ala Leu Asp Pro
 165 170 175
 Gln Thr Thr Asp Gln Ile Leu Asp Leu Leu Asp Ile Asn Arg Arg
 180 185 190
 Phe Asn Leu Thr Ile Val Leu Ile Thr His Glu Met His Val Val Arg
 195 200 205
 Lys Ile Cys Asp Arg Val Ala Val Met Glu Asn Gly Lys Val Val Glu
 210 215 220
 Glu Gly Asp Val Leu Ser Val Phe Thr His Pro Gln Gln Pro Ile Thr
 225 230 235 240
 Arg Gln Phe Val Arg Gln Val Ser Gln Tyr Ala Glu Glu Glu Thr Phe
 245 250 255
 Asn Thr Glu Leu Ala Asn Asp Leu Glu Gly Thr Val Ile Arg Leu Thr
 260 265 270
 Phe Thr Gly His Ser Thr His Arg Pro Ile Val Gly Glu Leu Thr Leu
 275 280 285
 Arg Tyr Gly Leu Pro Phe Asn Ile Leu His Gly Lys Met Thr Gln Thr
 290 295 300
 Ala His Gly Val Phe Gly Gln Leu Trp Val His Val Val Ala Ser Asp
 305 310 315 320
 Glu Gln Leu Asn Asn Ile Leu Ala Asp Leu Lys Gln Ser Asp Ile Glu
 325 330 335
 Gly Glu Val Ile Lys His Gly
 340

<210> 6984

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 6984

Arg Thr Leu Ser Ala Pro Glu Val Gly Ser Ala Leu Gly Cys Asn Pro
 1 5 10 15
 Gly Asp Ala Leu His Asp Cys Ala Phe Pro Ala Trp Arg Arg Leu Phe
 20 25 30
 Leu Gly Ile Ala Leu Gly Leu Ala Leu Phe Leu Thr Ala Arg Gly Gly
 35 40 45
 Leu Phe His Asn Arg Thr Val Tyr Ser Val Met Ser Ile Val Val Asn
 50 55 60
 Val Phe Arg Ser Ile Pro Phe Ile Ile Leu Ile Val Leu Leu Ile Pro
 65 70 75 80
 Phe Thr Lys Thr Val Val Gly Thr Ile Leu Gly Ala Asn Ala Ala Leu
 85 90 95
 Pro Ala Leu Ile Val Gly Ala Ala Pro Phe Tyr Ala Arg Leu Val Glu
 100 105 110
 Ile Ala Leu Arg Glu Val Asp Lys Gly Val Ile Glu Ala Thr Arg Ser
 115 120 125
 Met Gly Ala Arg Leu Ser Thr Leu Val Phe Arg Val Leu Leu Pro Glu
 130 135 140
 Ser Ser Pro Ala Leu Val Ser Gly Met Thr Val Thr Leu Ile Ala Leu
 145 150 155 160
 Val Ser Tyr Ser Ala Met Ala Gly Val Ile Gly Ala Gly Gly Leu Gly
 165 170 175
 Asn Leu Ala Tyr Leu Glu Gly Phe Gln Arg Asn His Gly Asp Val Thr
 180 185 190
 Leu Val Ala Thr Val Thr Ile Leu Ile Ile Val Phe Ile Ile Gln Phe
 195 200 205
 Cys Gly Asp Ala Ile Thr Ser Leu Leu Asp Lys Arg

210

215

220

<210> 6985

<211> 288

<212> PRT

<213> *Enterobacter cloacae*

<400> 6985

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Arg Gly Lys Thr Lys Thr Thr Gly Trp Arg Met Thr Met Ala Ala Lys
1      5      10
Met Lys Gly Phe Lys Lys Arg Ala Gln Val Leu Gly Leu Val Ala Trp
20      25      30
Gly Leu Val Ser Ala Gln Ala Gln Ala Asp Arg Leu Ala Asp Ile Lys
35      40      45
Ala Ala Gly Val Val Lys Val Ala Thr Phe Asp Ala Asn Pro Pro Phe
50      55      60
Gly Ser Ile Asp Ala Lys Thr His Glu Ile Val Gly Tyr Asp Val Asp
65      70      75      80
Phe Ala Lys Ala Leu Ala Lys Ser Leu Gly Val Lys Leu Glu Leu Val
85      90      95
Ala Thr Asn Pro Ala Asn Arg Ile Pro Leu Leu Gln Ser Gly Lys Ala
100     105     110
Asp Leu Ile Val Ala Asp Ile Thr Ile Thr Pro Glu Arg Ala Gln Val
115     120     125
Ile Asp Phe Ser Thr Pro Tyr Phe Val Thr Gly Gln Gln Phe Leu Val
130     135     140
Pro Ala Lys Ser Pro Asp Lys Leu Asp Asp Tyr Ser Arg Ala Arg Ile
145     150     155     160
Gly Ala Val Lys Gly Thr Thr Gly Glu Gln Ala Leu His Gln Arg Phe
165     170     175
Pro Gln Ser Arg Val Leu Ser Tyr Asp Ile Pro Leu Ala Leu Thr
180     185     190
Ala Leu Arg Asn Gly Asn Val Gln Ala Ile Thr Gln Asp Ser Thr Ile
195     200     205
Leu Ala Gly Leu Leu Ala Gln Ala Pro Asp Lys Ala Asp Phe Lys Ile
210     215     220
Leu Pro Asp Leu Leu Ser Lys Glu Glu Ile Gly Val Gly Val Lys Lys
225     230     235     240
Gly Glu Thr Ala Leu Leu Lys Ala Val Asn Asp Glu Leu Val Asn Leu
245     250     255
Glu Lys Asn Gly Gln Ala Ala Lys Ile Tyr Asp Val Trp Phe Gly Pro
260     265     270
Gly Ser Pro Ala Pro Gln Pro Arg Asn Phe Lys Ile Glu Ala Arg
275     280     285

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<210> 6986

<211> 303

<212> PRT

<213> *Enterobacter cloacae*

<400> 6986

```

Asp Ala Val Arg Pro Gly Asn Cys Arg Ser Asn Arg Leu Tyr Arg Arg
1      5      10      15
Trp Thr His Ser Gly Asn Arg Val Pro Gly Ala Ile Phe Gln Pro Thr
20      25      30
Val Ala Ser Ala Cys Glu Ala Val Pro Ala Lys Ser Ala Gly Ser Ala
35      40      45
Ala Ser Gly Ala Thr Val Met Pro Ala Leu Asp Trp Gln Gly Val Leu
50      55      60
Ala Gly Gln Pro Leu His Trp Ile Leu Ser Gly Phe Leu Thr Thr Leu
65      70      75      80

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Trp Val Thr Leu Ala Gly Ile Met Leu Ala Ser Leu Leu Ala Leu Phe
 85 90 95
 Phe Met Leu Leu Arg Leu Ser Gly Gly Arg Leu Gly Thr Ser Phe Val
 100 105 110
 Ser Gly Trp Val Ser Leu Phe Arg Asn Thr Pro Leu Leu Val Gln Leu
 115 120 125
 Leu Phe Trp Tyr Phe Ala Ala Trp Asn Gly Leu Pro Gln Glu Leu Arg
 130 135 140
 Asp Ala Val Asn Ala Asp His Ser Trp Ser Ile Leu Pro Gly Asp Val
 145 150 155 160
 Trp Trp Phe Thr Pro Glu Phe Leu Cys Ser Ala Trp Gly Leu Gly Val
 165 170 175
 Phe Thr Ser Ala Phe Leu Ile Glu Glu Val Glu Ser Gly Leu Arg Ser
 180 185 190
 Val Pro Ala Gly Gln Arg Glu Ala Ala Leu Ala Gln Gly Phe Ser Ser
 195 200 205
 Trp Arg Leu Phe Arg Tyr Ile Leu Leu Pro Gln Gly Leu Ala Asn Ala
 210 215 220
 Trp Gln Pro Val Val Gly Gln Tyr Leu Asn Leu Met Lys Leu Ser Ser
 225 230 235 240
 Leu Ala Ser Gly Ile Gly Phe Ala Glu Leu Thr Tyr Gln Val Arg Gln
 245 250 255
 Ile Glu Ser Tyr Asn Ala His Ala Leu Glu Ala Phe Thr Val Gly Thr
 260 265 270
 Val Leu Tyr Leu Leu Thr Gly Met Val Thr Gly Ser Val Leu Val Arg
 275 280 285
 Leu Gly Pro His Ser Gly Arg Lys Asn His Asp Pro Arg Ile
 290 295 300

<210> 6987

<211> 276

<212> PRT

<213> *Enterobacter cloacae*

<400> 6987

Lys Pro Gly Asn Met Leu Ser Gly Leu Phe Ser His Ser Ala Ala Asn
 1 5 10 15
 Ala Ala Asp Phe Ser Arg Leu Glu Gln Ala Ser Val Glu Phe Arg His
 20 25 30
 Val Asp Lys Arg Tyr Gly Asp His Pro Val Leu Thr Asp Ile Asn Leu
 35 40 45
 Thr Ile Met Pro Gly Glu Val Val Ala Ile Leu Gly Pro Ser Gly Ser
 50 55 60
 Gly Lys Ser Thr Leu Ile Arg Leu Ile Asn Gln Leu Glu Ser Leu Ser
 65 70 75 80
 Gly Gly Glu Ile Leu Val Asp His Lys Pro Thr Gly Gln Leu Ser Gly
 85 90 95
 Ser Arg Leu Arg Gln Leu Arg Ser Arg Val Gly Phe Val Phe Gln Gln
 100 105 110
 Phe Asn Leu Tyr Ala His Leu Thr Ala Ser Gln Asn Ile Thr Leu Ala
 115 120 125
 Leu Glu His Val His Gly Trp Lys Pro Met Pro Ala Gln Glu Arg Ala
 130 135 140
 Leu Ala Leu Leu Glu Lys Val Gly Met Leu Glu Lys Ala His Arg Tyr
 145 150 155 160
 Pro Ala Glu Leu Ser Gly Gly Gln Gln Gln Arg Val Ala Ile Ala Arg
 165 170 175
 Ala Leu Ala Ser Ser Pro Gln Ile Ile Leu Phe Asp Glu Pro Thr Ser
 180 185 190
 Ala Leu Asp Pro Glu Met Ile Gly Glu Val Leu Leu Val Met Lys Ala
 195 200 205

Leu Ala His Ser Gly Ile Thr Met Ile Val Val Thr His Glu Met Gln
 210 215 220
 Phe Ala Arg Glu Ile Ala Asp Arg Ile Val Phe Ile Asp Gly Gly His
 225 230 235 240
 Ile Leu Glu Thr Ala Ser Pro Ala Gln Phe Phe Asn Gln Pro Ser His
 245 250 255
 Pro Arg Ala Arg Arg Phe Leu Gln Lys Val Leu Asp Pro Leu Arg Gln
 260 265 270
 Glu Gln Leu
 275

<210> 6988

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 6988

Arg Gly Ala Cys Trp Cys Ala Ser Ala Pro Ile Gln Gly Gly Lys Ile
 1 5 10 15
 Met Ile Pro Gly Phe Asn Val Ile Val Glu Asn Leu Asp Tyr Leu Leu
 20 25 30
 Trp Gly Arg Ala Ile Ala Gly Glu Pro Gly Gly Val Leu Ser Leu
 35 40 45
 Leu Met Ala Ala Gly Ala Ala Leu Ala Leu Pro Gly Gly Ile Val
 50 55 60
 Leu Ala Cys Val Ala Trp Arg Tyr Pro Gly Val Val Arg Ser Ala Leu
 65 70 75 80
 Phe Ala Trp Ala Glu Leu Ile Arg Gly Ile Pro Leu Ile Phe Val Ile
 85 90 95
 Phe Trp Met Trp Tyr Leu Leu Pro Leu Ile Thr Gly Arg Asp Leu Pro
 100 105 110
 Gly Ala Thr Thr Val Thr Leu Ala Leu Ala Trp Phe Thr Ala Ala Ala
 115 120 125
 Val Met His Ser Val Leu Ala Gly Leu Arg Ala Leu Pro Ser Gly Gln
 130 135 140
 Asn Glu Ala Ala Leu Ser Gln Gly Phe Ser Thr Gln Thr Leu Trp
 145 150 155 160
 Arg Val Leu Leu Pro Gln Ala Leu Arg Asn Ile Leu Pro Ser Leu Val
 165 170 175
 Gly Ile Phe Ile Ser Leu Leu Lys Asp Thr Ser Leu Ala Phe Ile Val
 180 185 190
 Asn Val Pro Glu Leu Thr Thr Val Ala Gly Gln Val Asn Asn Arg Val
 195 200 205
 Gln Ile Tyr Pro Ala Ala Ile Phe Ile Phe Thr Gly Val Ile Tyr Tyr
 210 215 220
 Leu Leu Cys Cys Ser Leu Glu Leu Leu Ala Lys Arg Trp Arg Val Ser
 225 230 235 240
 Arg Pro Ala Leu
 245

<210> 6989

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 6989

Leu Arg Gly Gly Ala Pro Pro Glu Arg Asp Phe His Ile Leu Pro Asn
 1 5 10 15
 Leu Lys Thr Lys Thr Val Met Lys Lys Thr Lys Ile Val Cys Thr Ile
 20 25 30
 Gly Pro Lys Thr Glu Ser Glu Glu Met Leu Ser Lys Met Leu Asp Ala

35 40 45
 Gly Met Asn Val Met Arg Leu Asn Phe Ser His Gly Asp Tyr Ala Glu
 50 55 60
 His Gly Gln Arg Ile Gln Asn Leu Arg Asn Val Met Ser Lys Thr Gly
 65 70 75 80
 Lys Lys Ala Ala Ile Leu Leu Asp Thr Lys Gly Pro Glu Ile Arg Thr
 85 90 95
 Ile Lys Leu Glu Gly Gly Asn Asp Val Ser Leu Lys Ala Gly Gln Thr
 100 105 110
 Phe Thr Phe Thr Thr Asp Lys Ser Val Val Gly Asn Asn Glu Ile Val
 115 120 125
 Ala Val Thr Tyr Glu Gly Phe Thr Ser Asp Leu Ser Val Gly Asn Thr
 130 135 140
 Val Leu Val Asp Asp Gly Leu Ile Gly Met Glu Val Thr Ala Ile Glu
 145 150 155 160
 Gly Asn Lys Val Ile Cys Lys Val Leu Asn Asn Gly Asp Leu Gly Glu
 165 170 175
 Asn Lys Gly Val Asn Leu Pro Gly Val Ser Ile Ala Leu Pro Ala Leu
 180 185 190
 Ala Glu Lys Asp Lys Gln Asp Leu Ile Phe Gly Cys Glu Gln Gly Val
 195 200 205
 Asp Phe Val Ala Ala Ser Phe Ile Arg Lys Arg Ser Asp Val Val Glu
 210 215 220
 Ile Arg Glu His Leu Lys Ala His Gly Gly Glu Asn Ile Gln Ile Ile
 225 230 235 240
 Ser Lys Ile Glu Asn Gln Glu Gly Leu Asn Asn Phe Asp Glu Ile Leu
 245 250 255
 Glu Ala Ser Asp Gly Ile Met Val Ala Arg Gly Asp Leu Gly Val Glu
 260 265 270
 Ile Pro Gly Cys Arg Ser Val Phe Thr Thr Gly Ala Gly Thr Asn Arg
 275 280 285
 Ile Lys Arg Gly
 290

<210> 6990

<211> 534

<212> PRT

<213> Enterobacter cloacae

<400> 6990

Leu Ser Ala Ile Cys Ile Ser Gly His Thr His Pro Ala Lys Ser Val
 1 5 10 15
 Asn Phe Ala Ala Leu Tyr Ala Asp Leu Ala Ile Leu Thr Ser Gly Gln
 20 25 30
 Leu Tyr Val Leu Leu Ser Phe His Leu Lys Ile Gln Gly Leu Phe Leu
 35 40 45
 Ser Val Leu Lys Pro Gly Glu Thr Phe Phe Ile Glu Lys Ile Ser Trp
 50 55 60
 Phe Tyr His Pro Val Ile Thr Ser Ser Gln Asp Met Thr Met Thr Leu
 65 70 75 80
 Tyr His Ser Val Thr Glu Leu Ile Gly Arg Thr Pro Leu Ile Gln Leu
 85 90 95
 His Lys Leu Asp Thr Gly Pro Cys Ser Leu Phe Leu Lys Leu Glu Asn
 100 105 110
 Gln Asn Pro Gly Gly Ser Ile Lys Asp Arg Val Ala Leu Ser Met Ile
 115 120 125
 Asn Glu Ala Glu Arg Thr Gly Gln Leu Arg Pro Gly Gly Thr Ile Ile
 130 135 140
 Glu Ala Thr Ala Gly Asn Thr Gly Leu Gly Leu Ala Leu Ile Ala Ala
 145 150 155 160
 Gln Lys Gly Tyr Ser Leu Ile Leu Val Val Pro Asp Lys Met Ser Arg

165 170 175
 Glu Lys Ile Phe His Leu Arg Ala Leu Gly Ala Gln Val Val Leu Thr
 180 185 190
 Arg Ser Asp Val Asn Lys Gly His Pro Ala Tyr Tyr Gln Asp Tyr Ala
 195 200 205
 Arg Arg Leu Ala Asn Glu Leu Pro Gly Ala Phe Tyr Ile Asp Gln Phe
 210 215 220
 Ser Asn Ala Ala Asn Pro Leu Ala His Arg Thr Thr Thr Ala Pro Glu
 225 230 235 240
 Leu Phe Glu Gln Leu Asp Gly Gln Ile Asp Ala Ile Val Val Gly Val
 245 250 255
 Gly Ser Gly Gly Thr Leu Gly Gly Leu Gln Ala Trp Phe Ala Glu His
 260 265 270
 Ser Pro Gln Thr Glu Phe Val Leu Ala Asp Pro Ala Gly Ser Val Leu
 275 280 285
 Ala Asp Gln Val Glu Thr Gly Arg Tyr His Asp Ala Gly Ser Trp Leu
 290 295 300
 Val Glu Gly Ile Gly Glu Asp Phe Ile Pro Pro Leu Ala His Ile Glu
 305 310 315 320
 Gly Val Asn Arg Ala Trp Arg Ile Thr Asp Arg Glu Ala Phe Thr Thr
 325 330 335
 Ala Arg Asp Leu Lys Thr Glu Gly Ile Leu Ala Gly Ser Ser Thr
 340 345 350
 Gly Thr Leu Leu Ala Thr Ala Leu Lys Tyr Cys Gln Ala Gln Thr Thr
 355 360 365
 Pro Lys Arg Val Val Thr Phe Ala Cys Asp Ser Gly Asn Lys Tyr Leu
 370 375 380
 Ser Lys Met Phe Asn Asp Asp Trp Met Arg Gln Gln Gly Leu Ile Ser
 385 390 395 400
 Arg Pro Gln Ala Gly Asp Leu Ser Asp Tyr Ile Ala Leu Arg His Asp
 405 410 415
 Glu Gly Ala Thr Val Thr Ala Ala Pro Asp Asp Thr Leu Ser Thr Val
 420 425 430
 Leu Ala Arg Met Arg Leu Tyr Glu Ile Ser Gln Leu Pro Val Leu Asp
 435 440 445
 Asn Asn Lys Val Val Gly Ile Ile Asp Glu Trp Asp Leu Leu Arg His
 450 455 460
 Ile Gly Gly Asp Ala Asp Arg Phe Ser Leu Pro Val Thr Ala Ala Met
 465 470 475 480
 Thr Arg Gln Val Glu Tyr Leu Asp Lys Gln Ala Pro Glu Ser Ala Leu
 485 490 495
 Tyr Ala Ile Phe Asp Arg Gly Leu Val Ala Ile Ile Tyr Asp Gly Asn
 500 505 510
 Arg Phe Leu Gly Leu Ile Thr Arg Ser Asp Val Leu Thr Ala Trp Arg
 515 520 525
 Asn Arg Leu Thr Lys
 530

<210> 6991

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 6991

Lys Glu Gln Lys Met Lys Asn Leu Ala Thr Leu Ser Val His Ser Gly
 1 5 10 15
 Glu Tyr His Asp Pro His Gly Ala Val Met Pro Pro Ile Tyr Ala Thr
 20 25 30
 Ser Thr Phe Ala Gln Pro Ala Pro Gly Glu His Thr Gly Tyr Glu Tyr
 35 40 45
 Ser Arg Ser Gly Asn Pro Thr Arg His Ala Leu Glu Thr Ala Ile Ala

50 55 60
 Glu Leu Glu Gly Gly Thr Arg Gly Tyr Ala Phe Ala Ser Gly Leu Ala
 65 70 75 80
 Ala Ile Ser Thr Val Leu Glu Leu Leu Asp Gln Asp Ser His Ile Val
 85 90 95
 Ala Ile Asp Asp Val Tyr Gly Gly Thr Tyr Arg Leu Ile Glu Asn Val
 100 105 110
 Arg Lys Arg Ser Thr Gly Leu Gln Val Ser Trp Val Lys Pro Asp Asp
 115 120 125
 Val Ala Gly Leu Glu Ala Ala Ile Arg Pro Asp Thr Arg Met Ile Trp
 130 135 140
 Val Glu Thr Pro Thr Asn Pro Leu Leu Lys Leu Ala Asp Leu Glu Ala
 145 150 155 160
 Ile Ala Asp Ile Ala Arg Arg His Asn Ala Ile Ser Val Ala Asp Asn
 165 170 175
 Thr Phe Ala Ser Pro Val Ile His Arg Pro Leu Glu Ala Gly Phe Asp
 180 185 190
 Ile Val Val His Ser Ala Thr Lys Tyr Leu Asn Gly His Ser Asp Val
 195 200 205
 Val Ala Gly Leu Ala Val Val Gly Ala Asn Lys Asp Leu Ala Glu Arg
 210 215 220
 Leu Gly Tyr Leu Gln Asn Ala Ile Gly Gly Val Leu Asp Pro Phe Ser
 225 230 235 240
 Ser Phe Leu Thr Leu Arg Gly Ile Arg Thr Leu Ser Leu Arg Val Glu
 245 250 255
 Lys His Ser Ala Asn Ala Leu Ala Ile Ala Gln Trp Leu Glu Gln His
 260 265 270
 Pro Gln Val Asp Ser Val Phe Tyr Pro Gly Leu Ala Ser His Pro Gln
 275 280 285
 Tyr Ala Leu Ala Arg Arg Gln Met Ala Leu Pro Gly Gly Met Ile Ser
 290 295 300
 Val Val Ile Lys Gly Asp Ala Gln Arg Ala Thr Glu Val Ile Arg His
 305 310 315 320
 Leu Thr Leu Phe Thr Leu Ala Glu Ser Leu Gly Gly Val Glu Ser Leu
 325 330 335
 Val Ser Gln Pro Tyr Ser Met Thr His Ala Ser Ile Pro Leu Ala Gln
 340 345 350
 Arg Leu Ala Asn Gly Ile Val Pro Gln Leu Ile Arg Leu Ser Val Gly
 355 360 365
 Ile Glu Asp Ala Lys Asp Leu Ile Ala Asp Leu Lys Gln Ala Leu Lys
 370 375 380
 Lys
 385

<210> 6992

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 6992

Gly Arg Glu Ala His Gln Gly Lys Gly Gly Phe Glu Lys Met Gly Ile
 1 5 10 15
 Gly Ala Ser Leu Lys Gln Leu Gly Pro Gln Gly Met Gln Ile Ser Asp
 20 25 30
 Asp Val Lys Gly Thr Ser Pro Asp Arg Leu Thr Gly Thr Asp Val Met
 35 40 45
 Ala Ala Ile Gly Thr Thr Ser Ser Arg Ala Arg Phe Gly Leu Ala Ala
 50 55 60
 Phe Phe Gly Lys Ala Gly Ile Ser Lys Thr Asp Glu Gln Leu Ala Val
 65 70 75 80
 Gln Ala Leu Ala Arg Tyr Ala Met Asp Val Ala Pro Lys Asn Val Arg

85 90 95
 Lys Ala Ala Gly Gln Phe Gly Trp Cys Met Gln Met Leu Ala Gln
 100 105 110
 Phe Ala Phe Ala Asp Tyr Ser Arg Ser Ala Ala Thr Ser Ala Thr Cys
 115 120 125
 His Ser Cys Cys Gly Thr Gly Arg Thr Thr Arg Glu Gln Ile Thr Arg
 130 135 140
 Lys Val Ser Tyr Pro Trp Gly Lys Ala Pro Tyr Trp Ala Cys Arg Ser
 145 150 155 160
 Arg Ala Val Arg Pro Ser Asp Trp Glu Gln Trp Thr Glu Val Thr Glu
 165 170 175
 Val Val Pro Ala Val Cys Asp Val Cys Glu Gly Lys Gly Thr Ile Ser
 180 185 190
 Ala Arg Cys Arg Cys Gly Gly Lys Gly Glu Val Leu Asp Arg Lys Ala
 195 200 205
 Thr Lys Glu Arg Gly Ala Pro Val Phe Lys Thr Cys Glu Arg Cys Ser
 210 215 220
 Gly Asn Gly Phe Ser Ala Ile Ser Ser Ala Thr Val His Arg Ala Ile
 225 230 235 240
 Leu Lys Arg Leu Pro Asp Leu His Gln Ser Ser Trp Ser Arg Asn Trp
 245 250 255
 Lys Pro Phe Tyr Glu Met Leu Val Asp Thr Leu Arg Gln Gly Glu Arg
 260 265 270
 His Ala Ala Val Glu Phe Glu Lys Ala Thr Thr Tyr 285
 275 280

<210> 6993
 <211> 121
 <212> PRT
 <213> Enterobacter cloacae

<400> 6993
 Val Leu Met Pro Ala Ala Ile Pro Arg Ala Cys Arg Lys Arg Gly Cys
 1 5 10 15
 Ser Gly Thr Thr Thr Asp Arg Ser Gly Tyr Cys Glu His His Arg Asn
 20 25 30
 Glu Gly Trp Gln Gln His Gln Arg Gly Gln Ser Arg His Gln Arg Gly
 35 40 45
 Tyr Gly Ser Lys Trp Asp Arg Leu Arg Gln Ile Val Leu Asp Arg Asp
 50 55 60
 Lys His Leu Cys Gln Glu Cys Leu Arg Asn Gly Arg Tyr Thr Pro Ala
 65 70 75 80
 Glu Thr Val Asp His Ile Lys Pro Lys Ala His Gly Gly Thr Asp Asp
 85 90 95
 Leu Ser Asn Leu Glu Ser Ile Cys Arg Gly Cys His Lys Ala Lys Thr
 100 105 110
 Ala Arg Glu Arg Leu Asn Arg Asn
 115 120

<210> 6994
 <211> 590
 <212> PRT
 <213> Enterobacter cloacae

<400> 6994
 Pro Ala Gly Arg Val Tyr Glu Ser Glu Gly Leu Met Ala Lys Val Ala
 1 5 10 15
 Glu Gly Ile Arg Tyr Ala Glu Arg Val Val Ala Gly Glu Ile Ile Ala
 20 25 30
 Cys Glu Tyr Val Arg Leu Ala Cys Gln Arg Phe Leu Asp Asp Leu Ala
 35 40 45

His Gly Glu Glu Arg Gly Ile Phe Phe Ser Glu Pro Arg Ala Gln His
 50 55 60
 Ile Leu Asn Phe Tyr Asn Phe Val Pro His Val Lys Gly Ala Leu Ala
 65 70 75 80
 Gly Gln Pro Ile Glu Leu Met Asp Trp His Val Phe Ile Leu Ile Asn
 85 90 95
 Ile Phe Gly Phe Val Ile Pro Leu Val Asn Glu Glu Thr Gly Glu Thr
 100 105 110
 Val Leu Arg Asn Asp Gly Ser Gly Arg Pro Val Met Val Arg Arg Phe
 115 120 125
 Arg Thr Ala Asp Val Glu Val Ala Arg Lys Asn Ala Lys Ser Thr Leu
 130 135 140
 Cys Ser Gly Val Gly Leu Tyr Met Ala Gly Ala Asp Gly Glu Gly Gly
 145 150 155 160
 Ala Glu Val Tyr Ser Ala Ala Thr Thr Arg Asp Gln Ala Arg Ile Val
 165 170 175
 Phe Glu Asp Ala Lys Asn Met Val Lys Lys Ala Lys Ala Thr Leu Gly
 180 185 190
 Arg Ile Phe Glu Phe Asn Lys Leu Ala Ile Tyr Gln Glu Gln Ala Ala
 195 200 205
 Ser Lys Phe Glu Pro Leu Ser Ser Asp Ala Asn Asn Leu Asp Gly Leu
 210 215 220
 Asn Ile His Cys Ala Ile Val Asp Glu Leu His Ala His Lys Thr Arg
 225 230 235 240
 Asp Val Trp Asp Val Leu Glu Thr Ala Thr Gly Ala Arg Leu Gln Ser
 245 250 255
 Leu Leu Phe Gly Ile Thr Thr Ala Gly Phe Asn Lys Glu Gly Ile Cys
 260 265 270
 Tyr Glu Leu Arg Asp Tyr Ala Ile Lys Val Leu Arg Gly Leu Val Lys
 275 280 285
 Asp Asp Thr Phe Phe Ala Ile Ile Tyr Thr Leu Asp Glu Gly Asp Asp
 290 295 300
 Pro Phe Asp Glu Lys Val Trp Gln Lys Ala Asn Pro Gly Leu Gly Ile
 305 310 315 320
 Cys Lys Arg Trp Asp Asp Leu Arg Arg Leu Ala Lys Lys Ala Lys Glu
 325 330 335
 Gln Val Ser Ala Arg Ile Asn Phe Phe Thr Lys His Met Asn Ile Trp
 340 345 350
 Val Thr Ala Glu Ser Ala Trp Met Asp Met Met Lys Trp Glu Lys Cys
 355 360 365
 Glu Phe Ile Ala Pro Gln His Glu Leu Lys Thr Tyr Pro Ser Trp Val
 370 375 380
 Gly Val Asp Leu Ser Asn Lys Ile Asp Ile Cys Ala Ala Lys Val
 385 390 395 400
 Trp Arg Ala Pro Asp Gly His Val His Ala Asp Phe Lys Phe Trp Leu
 405 410 415
 Pro Glu Gly Arg Leu Glu Lys Cys Ser Arg Gln Met Ala Glu Leu Tyr
 420 425 430
 Arg Lys Trp Ala Gly Met Asp Lys Leu Ile Leu Thr Asp Gly Asp Val
 435 440 445
 Ile Asp His Ala Gln Ile Lys Glu Glu Leu Gln Leu Trp Val Ala Gly
 450 455 460
 Glu Ser Leu Lys Glu Ile Gly Phe Asp Pro Trp Ser Ala Thr Gln Phe
 465 470 475 480
 Ser Leu Ala Leu Ala Glu Glu Gly Leu Pro Leu Val Glu Val Pro Gln
 485 490 495
 Thr Val Arg Asn Phe Ser Glu Ala Met Lys Glu Val Glu Ala Leu Val
 500 505 510
 Tyr Gly Gly Arg Phe His His Ser Asp His Pro Val Met Asn Trp Met
 515 520 525
 Met Ser Asn Val Thr Val Lys Pro Asp Arg Asn Glu Asn Ile Phe Pro

530		535		540
Asn Lys Ser Thr	Pro Glu Ala Lys Ile Asp Gly	Pro Ala Ala Leu Phe		
545	550	555		560
Thr Ala Met Ser Arg Val Leu Val Asn Gly	Gly Asn Asp Gln Gln Asp			
	565	570		575
Leu Ser Gly Phe Phe Asn Asn Pro Ile Met Val Gly Phe				
	580	585		590

<210> 6995

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 6995

Asn Arg Pro Leu Arg Ser Thr Phe Leu Met Ser Lys Lys Gln Leu Pro	
1	5 10 15
Val Ala Pro Ala Gly Arg Pro Cys Ala Arg Val Thr Cys Glu Thr Leu	
	20 25 30
Pro Ser Ala Leu Asp Arg Trp Asp Gly Gly Ile Lys Ala Ala Ala Thr	
	35 40 45
Asp Asp Asn Ser Ile Ser Val Phe Asp Val Ile Gly Gln Asp Tyr Trp	
	50 55 60
Gly Glu Gly Val Thr Ala Lys Arg Ile Ala Gly Ala Leu Arg Ala Met	
	65 70 75 80
Asn Gly Ala Asp Val Thr Val Asn Ile Asn Ser Pro Gly Gly Asp Met	
	85 90 95
Phe Glu Gly Leu Ala Ile Tyr Asn Leu Leu Arg Glu Tyr Glu Gly Arg	
	100 105 110
Val Thr Val Lys Val Leu Gly Ile Ala Ala Ser Ala Ala Ser Val Ile	
	115 120 125
Ala Met Ala Gly Asp Asp Ile Gln Ile Gly Arg Gly Ala Phe Leu Met	
	130 135 140
Ile His Asn Cys Trp Val Tyr Ala Met Gly Asn Arg His Asp Phe Ala	
	145 150 155
Glu Leu Ser Gln Ser Leu Glu Pro Phe Asp Asn Ala Met Ala Asp Ile	
	165 170 175
Tyr Ala Ala Arg Ser Gly Leu Asp Met Ala Ala Val Gln Lys Leu Met	
	180 185 190
Asp Ala Glu Ser Tyr Ile Gly Gly Ser Asp Ala Val Ala Lys Gly Leu	
	195 200 205
Ala Asp Ser Leu Leu Ser Ala Asp Ala Val Ser Asp Gly Asp Glu Ser	
	210 215 220
Pro Ala Ala Ala Leu Arg Lys Leu Asp Ala Leu Leu Ala Lys Thr Asn	
	225 230 235
Thr Pro Arg Ser Glu Arg Arg Lys Leu Ile Lys Ala Leu Ser Gly Gly	
	245 250 255
Met Pro Gly Ala Val Thr Thr Asn Asp Gly Thr Pro Gly Ala Ala Glu	
	260 265 270
Asp Ile Lys Pro Glu Thr Leu Asn Ser Leu Glu Asn Ala Leu Ala Ala	
	275 280 285
Leu Val Lys	
	290

<210> 6996

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 6996

Gly Pro Phe Met Ser Glu Val Asn Glu Ile Leu Lys Lys Val Thr Ala
1
5 10 15

Ser Ile Glu Asp Ala Thr Ser Lys Phe Asn Ala Lys Ala Glu Glu Ala
 20 25 30
 Leu Thr Glu Ala Lys Lys Asn Gly Gln Leu Ser Ala Gln Thr Lys Asp
 35 40 45
 Val Val Asp Lys Met Ala Thr Glu Leu Asn Ala Leu Lys Glu Ala Glu
 50 55 60
 Lys Thr Leu Lys Ala Ser Leu Gly Glu Leu Glu Gln His Val Ala Gln
 65 70 75 80
 Met Pro Leu Asn Asn Ala Ala Lys Val Thr Glu Thr Val Gly Gln Val
 85 90 95
 Val Ile Asn Ser Glu Ala Leu Lys Ala Phe Ala Ala Ser Val Glu Gly
 100 105 110
 Asn Lys Arg Val Ser Val Pro Val His Ala Ala Leu Leu Ser Thr Asp
 115 120 125
 Val Ala Asp Gly Val Val Glu Pro Gln Arg Leu Pro Gly Ile Asp Thr
 130 135 140
 Ala Pro Lys Gln Arg Leu Phe Ile Arg Asp Leu Ile Ala Pro Gly Arg
 145 150 155 160
 Thr Ser Ser Pro Ala Ile Phe Trp Val Gln Gln Thr Gly Phe Thr Asn
 165 170 175
 Ala Ala Lys Val Val Ala Glu Gly Thr Ala Lys Pro Tyr Ser Asp Ile
 180 185 190
 Glu Phe Ala Thr Lys Ile Thr Pro Val Thr Thr Ile Ala His Met Phe
 195 200 205
 Lys Ala Ser Lys Gln Ile Leu Asp Asp Phe Ala Gln Leu Gln Ser Thr
 210 215 220
 Val Asp Ala Glu Met Arg Tyr Gly Leu Lys Tyr Val Glu Glu Gln Glu
 225 230 235 240
 Ile Leu Phe Gly Asp Gly Thr Gly Val His Leu His Gly Ile Val Pro
 245 250 255
 Gln Ala Ser Ala Phe Asp Pro Ala Phe Ser Val Glu Ser Gln Asn Gly
 260 265 270
 Ile Asp Asp Leu Arg Leu Ala Met Leu Gln Ala Gln Leu Ala Arg Phe
 275 280 285
 Pro Ala Ser Gly His Val Leu His Phe Ile Asp Trp Ala Lys Ile Glu
 290 295 300
 Leu Thr Lys Asp Ser Leu Gly Arg Tyr Ile Leu Ala Asn Pro Ala Ser
 305 310 315 320
 Leu Thr Gly Pro Thr Leu Trp Gly Leu Pro Val Val Ala Thr Glu Ala
 325 330 335
 Ala Ala Phe Gln Gly Lys Phe Leu Thr Gly Ala Phe Asn Ala Ala Ala
 340 345 350
 Gln Leu Phe Asp Arg Glu Asp Ala Asn Val Val Ile Ser Thr Glu Asn
 355 360 365
 Ala Asp Asp Phe Glu Lys Asn Met Ile Ser Ile Arg Cys Glu Glu Arg
 370 375 380
 Leu Ala Leu Ala Val Lys Arg Pro Glu Ala Phe Val Tyr Gly Ser Phe
 385 390 395 400
 Ser Thr Gly Ala Gly Ser
 405

<210> 6997

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 6997

Met Asn Arg Glu Thr Lys Gln Met Leu Thr Leu Ser Lys Phe Gln Gln
 1 5 10 15
 Ala Thr Gly Thr Ser Ala Glu Leu Ala Gly Lys Trp Phe Pro Val Val
 20 25 30

Leu Ala Ala Met Gln Lys Tyr Asp Ile Ser Thr Pro Leu Arg Gln Ala
 35 40 45
 His Phe Leu Ala Gln Val Gly His Glu Ser Ser Gly Phe Val Arg Val
 50 55 60
 Glu Glu Ser Leu Asn Tyr Arg Tyr Gly Ala Leu Leu Ala Met Phe Gly
 65 70 75 80
 Asn Arg Ile Ser Gln Glu Asp Ala Phe Arg Tyr Gly Arg Val Asp Ser
 85 90 95
 Gly Gln Asn Pro His Pro Ala Asp Gln Lys Met Ile Gly Ser Ile Ile
 100 105 110
 Tyr Ala Asn Arg Asn Gly Asn Gly Asp Arg Asn Ser Gly Asp Gly Tyr
 115 120 125
 Arg Tyr Arg Gly Arg Gly Leu Ile Gln Val Thr Gly Lys Ala Asn Tyr
 130 135 140
 Ala Ala Leu Val Lys Gln Leu Gly Val Asp Ile Val Lys Ser Pro Glu
 145 150 155 160
 Leu Leu Thr Gln Pro Gln Tyr Ala Ala Glu Ser Ala Ala Ala Trp Trp
 165 170 175
 Ser Asn His Gly Leu Asn Ala Ile Ala Asp Ser Asp Asp Val Ser Arg
 180 185 190
 Ile Thr Arg Ile Ile Asn Gly Gly Thr Asn Gly Leu Glu Asp Arg Lys
 195 200 205
 Ala Arg Leu Thr Lys Ala Lys Gly Val Leu Cys Ser Gly
 210 215 220

<210> 6998

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 6998

Ile Met Gly Gln Lys Ile Ile Thr Leu Ser Gly Ala Ala Thr Asp Val
 1 5 10 15
 Leu Tyr Ala Leu Phe Phe Arg Gly Ala Leu Gln Ser Gly Asp Leu Pro
 20 25 30
 Ala Lys Ser Gly Ala Ala Glu Leu Arg Glu Leu Gly Phe Ala Glu Thr
 35 40 45
 Arg His Thr Ala Thr Glu Tyr Gln Lys Glu Asn Tyr Phe Thr Phe Leu
 50 55 60
 Thr Ala Glu Gly Gln Ala Phe Ala Ile Glu His Leu Ala Asn Thr Arg
 65 70 75 80
 Phe Gly Val Lys Gln Tyr Cys Ser Ala Ile Asn Ile Gly Val Glu Leu
 85 90 95
 Asp Thr Thr Asp Ala Gln Lys Ala Ile Asp Asp Leu Asp Asp Lys Ile
 100 105 110
 Arg Asn Ser Asp Ala Phe Lys Val Leu Lys Asp Gly Trp Ser Phe Glu
 115 120 125
 Lys Asn Gly Thr Leu Val Ile Asn Asn Gly Gln Val Phe Ile Thr Asp
 130 135 140
 Ala Lys Ile Ser Asp Gly Val Leu Ser Thr Asn Tyr Asn Val Lys Leu
 145 150 155 160
 Asn Asp Ala Asp Lys Gly Lys Pro His Glu Ala Gly Met Thr Leu Gly
 165 170 175
 Val Glu Glu Gly Lys Gln Gln Ala Thr Phe Lys Ala Asp Arg Phe Lys
 180 185 190
 Val His Glu Ala Ala Gln Ser Ala Ser Asn Asn Glu Glu Thr Ala Phe
 195 200 205
 Asn Gly Gly Leu Ala Phe Gly Gly Phe Pro Gly Ala Ile Ser His Asp
 210 215 220
 Gly Ala Asn Pro Ala Asp Gly Asn Asn Ala Thr Ala Glu Pro Ile Ser
 225 230 235 240

Ser Ile Ala Ser Ala Thr Gly Thr Ala Thr Lys Ala Arg Leu Thr Asp
 245 250 255
 Glu Met Gln Glu Leu Val Leu Lys Ala Val Arg Glu Ser Asp Leu Phe
 260 265 270
 Thr Ser Leu Gln Thr Ala Ile Ala Ala Lys Ala Ala Ser Thr Ala Gly
 275 280 285
 Leu Gln Gln Ala Val Asn Asp Ala Val Ser Asn Ala Ile Arg Asn Ala
 290 295 300
 Leu Lys Pro Gly Gly Leu Leu Tyr Gly Lys Cys
 305 310 315

<210> 6999

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6999

Glu Phe Ser Ile Met Ser Gly Pro Pro Lys Thr Pro Thr His Leu Arg
 1 5 10 15
 Leu Val Arg Gly Asn Pro Ser Lys Arg Pro Ile Asn Glu Asn Glu Pro
 20 25 30
 Lys Pro Pro Ser Gly Val Pro Thr Pro Lys His Phe Asp Lys Gln
 35 40 45
 Gly Lys Tyr Trp Phe Lys Arg Met Ala Asp Glu Leu Asp Ala Ile Gly
 50 55 60
 Val Met Ser Gln Leu Asp Ala Arg Ala Leu Glu Leu Val Glu Ala
 65 70 75 80
 Tyr Thr Glu Tyr Arg His His Cys Asp Thr Leu Glu Val Glu Gly Tyr
 85 90 95
 Thr Tyr Arg Thr Glu Thr Gln Asn Gly Asp Val Leu Ile Lys Ala His
 100 105 110
 Pro Ala Ala Ile Met Lys Ala Asp Ala Trp Lys Arg Leu Arg Ala Met
 115 120 125
 Leu Gly Glu Phe Gly Met Thr Pro Ala Ser Arg Thr Lys Val Asn Ala
 130 135 140
 Lys Gly Pro Asp Ala Val Asp Pro Leu Ala Glu Phe Met Lys Ala Arg
 145 150 155 160
 Asp

<210> 7000

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 7000

Ser His His Gly Arg Phe Leu Met Lys Lys Asn Lys Arg Pro Gly Arg
 1 5 10 15
 Val Lys Ser Ala Leu Leu Asn Trp Leu Gly Val Pro Ile Ser Leu Thr
 20 25 30
 Thr Gly Thr Phe Trp Glu Glu Trp Phe Gly Thr Ser Ser Gly Lys
 35 40 45
 Val Val Thr Ala Asp Lys Ala Ile Gln Leu Ser Ala Val Trp Ala Cys
 50 55 60
 Val Arg Leu Leu Ser Glu Ser Ile Ser Thr Leu Pro Leu Lys Ile Tyr
 65 70 75 80
 Val Arg Gln Pro Asp Gly Ser Arg Lys Ala Ala Thr Asp His Pro Ala
 85 90 95
 Tyr Ser Ile Leu Cys Arg Arg Pro Asn Ser Glu Met Thr Pro Ser Arg
 100 105 110
 Phe Met Leu Met Val Val Ala Ser Ile Cys Leu Arg Gly Asn Ala Phe

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115          120          125
Ile Glu Lys Lys Phe Ile Ala Asn Arg Leu Val Ser Leu Val Pro Leu
130          135          140
Leu Pro Gln Asn Met Val Val Lys Arg Leu Thr Gly Ala Leu Glu
145          150          155
Tyr Lys Tyr Thr Glu Asn Gly Asn Glu Arg Val Ile Pro Val Lys Asn
160          165          170
Ile Met His Ile Arg Gly Phe Gly Leu Asp Gly Val Cys Gly Met Met
175          180          185
Pro Met Lys Thr Gly Arg Asp Val Ile Gly Ser Ala Met Ala Val Glu
190          195          200
Glu Ser Ala Ala Lys Ile Phe Glu Gln Gly Leu Gln Ser Ser Gly Phe
205          210          215
Leu Ser Ser Asp Lys Ala Leu Asp Asp Thr Gln Arg Glu Lys Leu Arg
220          225          230
Gly Tyr Met Ala Ala Phe Thr Gly Ser Lys Asn Ala Gly Lys Ile Met
235          240          245
Val Leu Glu Gly Gly Leu Thr Tyr Gln Gly Val Thr Met Asn Pro Glu
250          255          260
Asp Ala Gln Met Leu Glu Ser Arg Ala Phe Ser Ile Glu Glu Ile Cys
265          270          275
Arg Trp Phe Arg Val Pro Pro Phe Met Val Gly His Thr Thr Lys Gln
280          285          290
Ser Ser Trp Ala Ser Ser Leu Glu Gly Met Asn Leu Gln Phe Leu Thr
295          300          305
His Thr Leu Arg Pro Leu Leu Val Asn Ile Glu Gln Glu Ile Gly Arg
310          315          320
Cys Leu Leu Asp Ser Asp Asp Glu Val Phe Ala Glu Phe Ser Val Glu
325          330          335
Gly Leu Leu Arg Ala Asp Ser Ala Gly Arg Ala Ala Tyr Tyr Thr Ser
340          345          350
Ala Leu Gln Asn Gly Trp Met Ser Arg Asn Asp Val Arg Arg Leu Glu
355          360          365
Asn Met Pro Pro Ile Glu Gly Gly Asp Ile Tyr Thr Val Gln Leu Asn
370          375          380
Leu Thr Gln Leu Lys Asn Leu Glu Ser Ser Asn Pro Ala Val Gln Ala
385          390          395
Leu Ala Leu Arg Glu Leu His Asn His Ile Phe Pro Asp Ile Ser Phe
400          405          410
Glu Gln Ser Pro Leu Lys Gln Ala Ala
415          420          425
430          435          440

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<210> 7001

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 7001

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Ile Ile Ser Ile Phe Phe Asn Ser Leu Arg Val Cys Arg Asp Leu Ile
1          5          10          15
Leu Met Leu Asn Ile Leu Ser Gln Leu Phe Asn Glu Arg Gly Ile
20          25          30
Ala Met Ser Trp Arg Val Ile Ser Ser Val Ile Cys Pro Asn Thr Gly
35          40          45
Ile Val Tyr Ser Ser Ile Leu Gly Leu Lys Phe Leu Lys Leu Ile Ile
50          55          60
Trp Tyr Glu Ser Asp Val Tyr Leu Tyr Pro Gly Asp Arg Ile Tyr Pro
65          70          75          80
Thr Lys Asn Gly Val Phe Ile Asn Gly Val Phe Lys Pro Ile Ser Ile
85          90          95
Tyr Asn Ile Ser Pro Tyr Asn Glu Met Leu Trp Ser Glu Ile Lys Asn

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		100					105			110		
Lys	Met	Ala	Cys	Pro	Tyr	Asn	Arg	Asn	Gln	Gln	Glu	Glu
	115						120				125	
Tyr	Ala	Val	His	Cys	Asn	Ala	Arg	Lys	Cys	Pro	His	Gly
	130						135				140	
Asn	Pro	Leu	Ile	Val	Ser	Thr	Ala	Lys	Ser	Arg	His	
	145				150					155		

<210> 7002

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 7002

Lys	Thr	Cys	Ser	Glu	Ala	Pro	Val	Ser	Val	Arg	Leu	Met	Lys	Lys	Leu
1			5						10					15	
Phe	Val	Gln	Phe	Tyr	Leu	Leu	Leu	Phe	Val	Cys	Phe	Leu	Val	Met	Thr
		20						25					30		
Met	Leu	Val	Gly	Leu	Val	Tyr	Lys	Phe	Thr	Ala	Glu	Arg	Ala	Gly	Arg
	35						40					45			
Gln	Ser	Leu	Asp	Asp	Leu	Met	Lys	Ser	Ser	Leu	Tyr	Leu	Met	Arg	Ser
	50					55					60				
Glu	Leu	Arg	Glu	Ile	Pro	Pro	His	Asp	Trp	Ala	Arg	Thr	Leu	Lys	Glu
	65				70				75				80		
Leu	Asp	Leu	Asn	Leu	Ser	Phe	Asp	Leu	Arg	Ile	Glu	Pro	Met	Lys	Asp
			85						90				95		
Phe	Asp	Leu	Ala	Pro	Pro	Ala	Met	Gln	Arg	Leu	Arg	Asp	Gly	Asp	Ile
			100					105					110		
Val	Ala	Leu	Asp	Glu	Lys	Tyr	Thr	Phe	Ile	Gln	Arg	Ile	Pro	Arg	Ser
	115						120					125			
His	Tyr	Val	Leu	Ala	Val	Gly	Pro	Val	Pro	Tyr	Leu	Tyr	Tyr	Leu	His
	130					135					140				
Gln	Met	Arg	Leu	Leu	Asp	Leu	Ala	Leu	Leu	Gly	Phe	Ile	Ala	Ile	Ser
	145				150					155				160	
Leu	Ala	Phe	Pro	Val	Phe	Ile	Trp	Met	Arg	Pro	His	Trp	Gln	Asp	Met
			165						170				175		
Leu	Lys	Leu	Glu	Ser	Ala	Ala	Gln	Arg	Phe	Gly	Glu	Gly	His	Leu	Thr
			180					185					190		
Glu	Arg	Ile	His	Phe	Asp	Ser	Gly	Ser	Ser	Phe	Asp	Arg	Leu	Gly	Ile
	195						200					205			
Ala	Phe	Asn	Gln	Met	Ala	Asp	Asn	Ile	Asn	Ala	Leu	Ile	Ala	Ser	Lys
	210					215					220				
Lys	Gln	Leu	Ile	Asp	Gly	Ile	Ala	His	Glu	Leu	Arg	Thr	Pro	Leu	Val
	225				230				235				240		
Arg	Leu	Arg	Tyr	Arg	Leu	Glu	Met	Ser	Glu	Asn	Leu	Thr	Gly	Ala	Glu
			245						250				255		
Ser	Gln	Ala	Leu	Asn	Arg	Asp	Ile	Gly	Gln	Leu	Glu	Ala	Leu	Ile	Glu
		260						265					270		
Glu	Leu	Leu	Thr	Tyr	Ala	Arg	Leu	Asp	Arg	Pro	Gln	Thr	Glu	Leu	His
	275						280					285			
Leu	Ser	Thr	Pro	Asp	Leu	Pro	Val	Trp	Leu	Gln	Thr	His	Ile	Asn	Asp
	290					295					300				
Val	Gln	Ser	Val	Asn	Pro	Gln	Arg	Lys	Leu	Leu	Thr	Ala	Ile	Thr	Pro
	305				310				315					320	
Gly	Ala	Tyr	Gly	Ala	Leu	Asp	Met	Arg	Leu	Met	Glu	Arg	Val	Leu	Asp
			325						330				335		
Asn	Leu	Met	Asn	Asn	Ala	Met	Arg	Tyr	Ser	Glu	Thr	Thr	Leu	Arg	Ile
		340						345					350		
Gly	Leu	Asp	Leu	Gln	Gly	Ser	Gln	Ala	Ile	Leu	Cys	Val	Glu	Asp	Asp
		355					360					365			
Gly	Pro	Gly	Ile	Glu	Pro	Ala	Glu	Arg	Glu	Lys	Val	Phe	Glu	Pro	Phe

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      370              375              380
Val Arg Leu Asp Pro Ser Arg Asp Arg Ala Thr Gly Gly Cys Gly Leu
385              390              395              400
Gly Leu Ala Ile Val Arg Ser Ile Ala Gln Ala Met Gly Gly Ser Val
      405              410              415
Arg Cys Glu Ala Ser Glu Leu Gly Gly Ala Arg Phe Val Phe Ser Trp
      420              425              430
Pro Ile Tyr His Asn Ile Pro Leu Pro Val Pro Ala
      435              440              445

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<210> 7003

<211> 473

<212> PRT

<213> Enterobacter cloacae

<400> 7003

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Leu Phe Trp Ile Trp Thr Phe His Asn Arg Lys Pro Met Glu Lys Lys
1              5              10              15
Leu Gly Leu Ser Ala Leu Thr Ala Leu Val Leu Ser Ser Met Leu Gly
      20              25              30
Ala Gly Val Phe Ser Leu Pro Gln Asn Met Ala Ala Val Ala Ser Pro
      35              40              45
Ala Ala Leu Leu Ile Gly Trp Gly Ile Thr Gly Val Gly Ile Leu Leu
      50              55              60
Leu Ala Phe Ala Met Leu Leu Leu Thr Arg Ile Arg Pro Asp Leu Asp
      65              70              75              80
Gly Gly Ile Phe Thr Tyr Ala Arg Glu Gly Phe Gly Glu Leu Ile Gly
      85              90              95
Phe Cys Ser Ala Trp Gly Tyr Trp Leu Cys Ala Val Ile Ala Asn Val
      100              105              110
Ser Tyr Leu Val Ile Val Phe Ser Ala Leu Ser Phe Phe Thr Asp Thr
      115              120              125
Pro Glu Leu Arg Leu Phe Gly Asp Gly Asn Thr Trp Gln Ser Ile Val
      130              135              140
Gly Ala Ser Val Leu Leu Trp Ile Val His Trp Leu Ile Leu Arg Gly
      145              150              155              160
Val Gln Thr Ala Ala Ser Ile Asn Leu Val Ala Thr Leu Ala Lys Leu
      165              170              175
Val Pro Leu Gly Leu Phe Val Val Leu Ala Phe Leu Ala Phe Arg Leu
      180              185              190
Asp Val Phe Thr Leu Asp Phe Ser Gly Ile Ala Leu Gly Val Pro Val
      195              200              205
Trp Glu Gln Val Lys Asn Thr Met Leu Ile Thr Leu Trp Val Phe Ile
      210              215              220
Gly Val Glu Gly Ala Val Val Val Ser Ala Arg Ala Arg Asn Lys Arg
      225              230              235              240
Asp Val Gly Arg Ala Thr Leu Leu Ala Val Leu Ala Ala Leu Gly Val
      245              250              255
Tyr Leu Leu Val Thr Leu Leu Ser Leu Gly Val Val Ala Arg Pro Glu
      260              265              270
Leu Ala Glu Met Arg Asn Pro Ser Met Ala Gly Leu Met Val Lys Met
      275              280              285
Leu Gly Pro Trp Gly Asp Val Ile Ile Ala Ala Gly Leu Ile Val Ser
      290              295              300
Val Cys Gly Ala Tyr Leu Ser Trp Thr Ile Met Ala Ala Glu Val Pro
      305              310              315              320
Phe Leu Ala Ala Thr His Lys Ala Phe Pro Arg Leu Phe Ala Arg Gln
      325              330              335
Asn Lys Asn Ser Ala Pro Ser Ala Ser Leu Trp Leu Thr Asn Ile Ser
      340              345              350
Val Gln Val Cys Leu Val Leu Ile Trp Leu Thr Gly Ser Asp Tyr Asn

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      355              360              365
Thr Leu Thr Ile Ala Ser Glu Met Ile Leu Val Pro Tyr Phe Leu
370              375              380
Val Gly Ala Tyr Leu Leu Lys Ile Ala Thr Arg Pro Ala His Tyr Ala
385              390              395              400
Val Gly Val Gly Ala Cys Ile Tyr Gly Leu Trp Leu Leu Tyr Ala Ser
      405              410              415
Gly Pro Met His Leu Leu Leu Ser Val Val Leu Tyr Ala Pro Gly Leu
      420              425              430
Leu Val Phe Ile Tyr Ala Arg Arg Thr His Gln Leu Asp Asn Ala Leu
      435              440              445
Lys Arg Arg Glu Met Ala Leu Ile Gly Leu Leu Leu Val Ala Ala Val
      450              455              460
Pro Ala Thr Trp Met Leu Met Gly
465              470

```

<210> 7004

<211> 245

<212> PRT

<213> *Enterobacter cloacae*

<400> 7004

```

Thr Glu Lys Glu Ile Thr Met Gly His Thr Gln Gln Arg Pro Ile Leu
1              5              10              15
Ile Thr Gly Ala Gly Arg Arg Ile Gly Leu Ala His His Phe Leu Asn
      20              25              30
Leu Arg His Pro Val Ile Val Ser Tyr Arg Thr Glu Tyr Pro Ser Ile
      35              40              45
Glu Gly Leu Arg Asn Ala Gly Ala Val Cys Ile Gln Ala Asp Phe Ser
      50              55              60
Thr Asp Glu Gly Ile Leu Ala Phe Ala Asp Lys Val Lys Ser Thr Thr
      65              70              75              80
His Gly Leu Arg Ala Val Ile His Asn Ala Ser Thr Trp Leu Pro Glu
      85              90              95
Lys Ala Gly His Ser Leu Ser Glu Thr Leu Ala Cys Met Met Gln Ile
      100              105              110
His Val Asn Ala Pro Tyr Leu Leu Asn His Ala Leu Gln Asp Leu Leu
      115              120              125
Arg Gly His Gly His Ala Ala Gly Asp Ile Ile His Phe Thr Asp Tyr
      130              135              140
Val Val Glu Arg Gly Ser Asp Lys His Ile Ala Tyr Ala Ala Ser Lys
      145              150              155              160
Ala Ala Leu Asp Asn Met Thr Arg Ser Phe Ala Arg Lys Leu Ala Pro
      165              170              175
Glu Val Lys Val Asn Ala Ile Ala Pro Ala Met Ile Leu Phe Asn Glu
      180              185              190
Gly Asp Asp Ala Glu Tyr Arg Gln Gln Ala Leu Asn Lys Ser Leu Met
      195              200              205
Lys Ile Ala Pro Gly Glu Lys Glu Val Ile Asp Leu Ile Asp Tyr Leu
      210              215              220
Leu Thr Ser Cys Tyr Val Thr Gly Arg Thr Phe Ala Val Asp Gly Gly
      225              230              235              240
Arg Pro Leu Arg
      245

```

<210> 7005

<211> 255

<212> PRT

<213> *Enterobacter cloacae*

<400> 7005

```

Asp Cys Ala Val Tyr Val Asp Val Phe Cys Asp Asp Arg Arg Cys Met
1      5      10      15
Asn Lys Ile Val Tyr Val Glu Asp Glu Pro Glu Val Gly Gln Leu Ile
20      25      30
Ala Ala Tyr Leu Gly Lys His Asp Met Glu Val Val Val Glu Pro Arg
35      40      45
Gly Asp Arg Ala Glu Asp Val Val Thr Arg Glu Asn Pro Asp Leu Val
50      55      60
Leu Leu Asp Ile Met Leu Pro Gly Lys Asp Gly Met Thr Leu Cys Arg
65      70      75      80
Asp Leu Arg Thr Lys Trp Asp Gly Pro Ile Val Leu Leu Thr Ser Leu
85      90      95
Asp Ser Asp Met Asn His Ile Leu Ser Leu Glu Met Gly Ala Asn Asp
100      105      110
Tyr Ile Leu Lys Thr Thr Pro Pro Ala Val Leu Leu Ala Arg Leu Arg
115      120      125
Leu His Leu Arg Gln Arg Ala Ser Gly Ala Glu Arg Glu Ala Ser Ala
130      135      140
Pro Ser Leu Thr Pro His Lys Ala Met Arg Phe Gly Thr Leu Ser Ile
145      150      155      160
Asp Pro Val Asn Arg Gln Val Met Leu Ser Gly Glu Leu Ile Ala Leu
165      170      175
Ser Thr Ala Asp Phe Asp Leu Leu Trp Glu Leu Ala Thr His Ala Gly
180      185      190
Gln Ile Met Asp Arg Asp Ala Leu Leu Lys Asn Leu Arg Gly Val Ser
195      200      205
Tyr Asp Gly Met Asp Arg Ser Val Asp Val Ala Ile Ser Arg Leu Arg
210      215      220
Lys Lys Leu Leu Asp Asn Ala Thr Glu Pro Tyr Arg Ile Lys Thr Val
225      230      235      240
Arg Asn Lys Gly Tyr Leu Phe Ala Pro His Ala Trp Glu Thr
245      250      255

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<210> 7006

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 7006

```

Gln Gln His Gln Tyr Met Val Cys Ala Arg Arg Arg Ile Ile Phe Met
1      5      10      15
Lys Leu Lys Asn Thr Leu Leu Ala Ser Ala Leu Leu Ser Ala Thr Ala
20      25      30
Leu Ser Ala Asn Ala Ala Thr Glu Leu Thr Pro Glu Gln Ala Ala Ala
35      40      45
Leu Lys Pro Phe Asp His Thr Val Ile Val Gly Arg Tyr Asn Ser Ile
50      55      60
Gly Asp Ala Val Ala Ala Ser Lys Ala Ala Asp Lys Asn Gly Ala
65      70      75      80
Ala Ser Phe Tyr Val Val Asp Gln Ser Asp Gln Gly Asn Ser Gly Asn
85      90      95
Gln Arg Val Thr Ile Ala Leu Tyr Lys Asp Asn Ala Pro Lys Ala Asp
100      105      110
Glu Gln Lys Asn Arg Val Ile Asn Gly Ile Val Glu Leu Pro Lys Asp
115      120      125
Gln Ala Val Gln Leu Glu Pro Tyr Asp Thr Val Thr Val Gln Gly Phe
130      135      140
Tyr Arg Ser Gln Pro Glu Val Asn Asp Ala Ile Thr Lys Ala Ala Arg
145      150      155      160
Glu Lys Gly Ala Tyr Ala Phe Tyr Ile Val Arg Gln Val Asp Ala Asn
165      170      175

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Gln Gly Gly Asn Gln Arg Ile Thr Ala Phe Ile Tyr Lys Gln Asp Ala
 180 185 190
 Lys Lys Arg Val Val Gln Ser Pro Asp Ala Ile Pro Ala Asp Ser Asp
 195 200 205
 Ala Gly Arg Ala Ala Leu Ala Lys Gly Gly Glu Glu Ala Lys Lys Val
 210 215 220
 Glu Ile Pro Gly Val Ala Thr Ser Ala Ala Pro Ser Ala Glu Val Gly
 225 230 235 240
 Arg Phe Phe Glu Thr Gln Ser Thr Lys Gly Gly Arg Tyr Thr Val Thr
 245 250 255
 Leu Pro Asp Gly Thr Lys Ile Glu Glu Leu Asn Lys Ala Thr Ala Ala
 260 265 270
 Gln Met Val Pro Phe Asp Ser Ile Lys Phe Thr Gly Asn Tyr Gly Asn
 275 280 285
 Met Thr Glu Ile Ser Tyr Gln Val Ala Lys Arg Ala Ala Lys Lys Gly
 290 295 300
 Ala Lys Tyr Tyr His Ile Thr Arg Gln Trp Gln Glu Arg Gly Asn Asn
 305 310 315 320
 Leu Thr Ile Ser Ala Asp Leu Tyr Lys
 325 330

<210> 7007

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 7007

Leu Arg Ala Ala Met Thr Thr Tyr Asp Leu Ile Glu Arg Leu Asn Thr
 1 5 10 15
 Thr Phe Arg Glu Ile Glu Gln Ala Leu Leu Thr Leu Thr Gly Gln Leu
 20 25 30
 Gln Asp Cys Arg Leu Leu Ala Ala Arg Val Phe Ser Leu Pro Glu Val
 35 40 45
 Ala Lys Gly Ala Glu His Asp Pro Leu Asn Thr Ile Glu Val Thr Gln
 50 55 60
 His Val Gly Lys Ala Ala Leu Glu Met Thr Leu Gln His Tyr Arg Arg
 65 70 75 80
 Leu Phe Ile Gln Gln Gln Ser Glu Asn Arg Ser Ser Lys Ala Ala Val
 85 90 95
 Arg Leu Pro Gly Val Ile Cys Leu Gln Thr Asp Ala Ala Thr Arg Glu
 100 105 110
 Gly Ile Glu Ala Gln Ile Thr His Ile Asn Thr Leu Lys Ala Ala Phe
 115 120 125
 Glu Lys Ile Val Thr Val Glu Ser Gly Leu Ala Pro Ala Ala Arg Phe
 130 135 140
 Glu Trp Val His Arg Gln Leu Pro Gly Leu Ile Thr Leu Asn Ala Tyr
 145 150 155 160
 Arg Thr Leu Thr Val Leu Arg His Pro Ala Thr Leu Arg Phe Gly Trp
 165 170 175
 Ala Asn Lys His Ile Ile Lys Asn Phe Ala Arg Asp Glu Ile Leu Ala
 180 185 190
 Gln Leu Glu Lys Ser Leu Lys Ser Pro Arg Thr Val Ala Pro Trp Ser
 195 200 205
 Arg Glu Gln Trp Ile Glu Arg Leu Glu Gln Glu Tyr His Ser Ile Ala
 210 215 220
 Ser Leu Pro Ala Asp Thr Arg Leu Lys Ile Lys Arg Pro Val Lys Val
 225 230 235 240
 Gln Pro Ile Ala Arg Val Trp Tyr Ala Gly Gln Gln Lys Gln Val Gln
 245 250 255
 Tyr Ala Cys Pro Thr Pro Leu Ile Ala Leu Tyr Asp Ala Asp Gln Gly
 260 265 270

Ala Val Val Pro Asp Ile Gly Glu Leu Leu Asn Tyr Asp Ala Glu Asn
 275 280
 Val Gln His Arg Tyr Lys Pro Gln Ala Gln Pro Leu Gln Leu Ile Ile
 290 295 300
 Pro Arg Leu His Leu Tyr Val Ala Gln
 305 310

<210> 7008

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 7008

Tyr Ala Glu Leu Ile Pro His Met Asn Gln Gly Leu Ile Met Gln Lys
 1 5 10 15
 Leu Ile Asn Ser Val Gln Asn Tyr Ala Trp Gly Ser Lys Thr Ala Leu
 20 25 30
 Thr Asp Leu Tyr Gly Ile Ala Asn Pro Asp Asn Leu Pro Met Ala Glu
 35 40 45
 Leu Trp Met Gly Ala His Pro Lys Ser Ser Ser Lys Ile Glu Asp Ala
 50 55 60
 Ser Gly Gln Val Arg Ser Leu Arg Asp Val Ile Asp Ala Asp Lys Ala
 65 70 75 80
 Ala Leu Leu Gly Asp Lys Val Ala Asn Arg Phe Gly Glu Leu Pro Phe
 85 90 95
 Leu Phe Lys Val Leu Cys Ala Asp Gln Pro Leu Ser Ile Gln Val His
 100 105 110
 Pro Asn Lys Lys Ala Ser Glu Leu Gly Phe Ala Lys Glu Asn Ala Ala
 115 120 125
 Gly Ile Pro Leu Asp Ala Val Glu Arg Asn Tyr Lys Asp Pro Asn His
 130 135 140
 Lys Pro Glu Leu Val Phe Ala Leu Thr Pro Phe Leu Ala Met Asn Ala
 145 150 155 160
 Phe Arg Glu Phe Ser Glu Ile Ile Ser Leu Leu Gln Pro Val Ala Gly
 165 170 175
 Ala His Asn Ala Ile Ala His Phe Leu Glu Asn Pro Asn Ala Glu Ala
 180 185 190
 Leu Ser Glu Leu Phe Ala Ser Leu Leu Asn Met Gln Gly Glu Glu Lys
 195 200 205
 Ser His Ala Leu Ala Val Leu Lys Ala Ala Leu Asn Ser Gln Gln Gly
 210 215 220
 Glu Pro Trp Asp Thr Ile Arg Val Ile Ser Ala Phe Tyr Pro Asp Asp
 225 230 235 240
 Ser Gly Leu Phe Ser Pro Leu Leu Leu Asn Val Val Lys Leu Asn Pro
 245 250 255
 Gly Glu Ala Met Phe Leu Phe Ala Glu Thr Pro His Ala Tyr Leu Asn
 260 265 270
 Gly Val Ala Leu Glu Val Met Ala Asn Ser Asp Asn Val Leu Arg Ala
 275 280 285
 Gly Leu Thr Pro Lys Tyr Ile Asp Ile Pro Glu Leu Val Ala Asn Val
 290 295 300
 Lys Phe Val Ala Lys Pro Ala Ala Glu Leu Leu Thr Gln Pro Val Lys
 305 310 315 320
 Asn Gly Ala Glu Leu Asp Phe Pro Ile Pro Val Asp Asp Phe Ala Phe
 325 330 335
 Ser Leu His Asp Leu Ser Ala Asp Glu Thr Ala Ile Ala Gln Glu Ser
 340 345 350
 Ala Ala Ile Leu Phe Cys Val Glu Gly Glu Ala Thr Leu His Lys Asp
 355 360 365
 Ser Asp Arg Leu Val Leu Lys Pro Gly Glu Ser Ala Phe Val Ala Ala
 370 375 380

Asn Glu Ser Pro Val Arg Val Ser Gly Thr Gly Arg Leu Ala Arg Val
 385 390 395 400
 Phe Asn Lys Leu 405

<210> 7009

<211> 536

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (527)

<400> 7009

Pro Pro Gly Phe Ile Leu Gly Ile Ile Ala Met Lys Lys Ser Val Val
 1 5 10 15
 Ala Val Gly Val Ile Val Ala Leu Gly Val Ile Trp Thr Gly Ala Ser
 20 25 30
 Trp Tyr Thr Gly Lys Gln Leu Glu Ser Arg Leu Ala Glu Met Met Thr
 35 40 45
 Gln Ala Asn Ser Glu Ile Lys Arg Ser Ala Pro Glu Ala Gly Leu Glu
 50 55 60
 Leu Ser Tyr Gln Asn Tyr Gln Arg Gly Val Phe Thr Ser His Met Gln
 65 70 75 80
 Val Val Val Lys Pro Val Ala Gly Asn Gln Asn Ala Trp Leu Lys Pro
 85 90 95
 Gly Gln Ser Val Val Leu Asp Glu Val Val Ser His Gly Pro Phe Pro
 100 105 110
 Leu Ala Gln Leu Lys Lys Phe Asn Leu Ile Pro Ser Met Ala Ser Ala
 115 120 125
 Arg Thr Val Leu Val Asn Asn Glu Val Thr Lys Pro Ile Phe Asp Met
 130 135 140
 Ala Lys Asn Glu Ser Pro Phe Glu Ile Asn Thr Arg Ile Ser Tyr Ala
 145 150 155 160
 Gly Asp Thr His Ser Asp Ile Asp Leu Lys Ala Leu Asn Tyr Glu Gln
 165 170 175
 Gly Thr Asp Lys Val Ala Phe Ser Gly Gly Asn Phe Gln Leu Asp Ala
 180 185 190
 Asp Arg Asp Gly Lys Asn Val Ser Leu Thr Gly Asp Ala Ala Ser Gly
 195 200 205
 Leu Val Asn Ser Val Asn Glu Tyr Asn Gln Lys Val Gln Leu Thr Phe
 210 215 220
 Asn Asn Leu Lys Ala Ser Gly Asn Ser Arg Met Thr Asp Phe Asp Glu
 225 230 235 240
 Arg Ile Gly Asp Gln Lys Leu Ser Leu Asp Lys Ile Ala Ile Ala Ile
 245 250 255
 Glu Gly Lys Glu Met Ala Val Leu Glu Gly Met Asp Leu Asp Gly Lys
 260 265 270
 Ser Asp Val Ser Lys Asp Gly Lys Ser Ile Asn Thr Gln Leu Asp Tyr
 275 280 285
 Ser Leu Lys Ser Leu Lys Val Gln Asn Gln Asp Leu Gly Thr Gly Lys
 290 295 300
 Leu Ser Leu Lys Ile Gly Asn Ile Asp Gly Gln Ala Trp His Glu Phe
 305 310 315 320
 Ser Gln Lys Tyr Ser Lys Glu Ser Gln Ala Leu Thr Asp Ala Ala
 325 330 335
 Leu Gln Gln Asn Pro Gln Ala Tyr Gln Gln Gln Ala Met Thr Val Leu
 340 345 350
 Phe Asn Asn Leu Pro Ile Leu Leu Lys Gly Glu Pro Val Ile Thr Val
 355 360 365

Ala Pro Leu Ser Trp Lys Asn Gly Lys Gly Glu Thr Asn Phe Asn Leu
 370 375 380
 Ser Leu Phe Leu Lys Asp Pro Ala Ala Thr Thr Gly Glu Pro Gln Thr
 385 390 395 400
 Leu Ala Gln Glu Val Asp Arg Ser Val Lys Ser Leu Asp Ser Lys Leu
 405 410 415
 Thr Ile Pro Met Asp Met Ala Thr Glu Phe Met Thr His Ile Ala Lys
 420 425 430
 Leu Glu Gly Tyr Gly Glu Glu Asp Ala Gly Lys Leu Ala Asn Gln Gln
 435 440 445
 Val Lys Gly Leu Ala Ala Met Gly His Met Phe Arg Ile Thr Lys Val
 450 455 460
 Glu Asp Asn Thr Ile Ser Thr Ser Leu Gln Tyr Ala Asn Gly Gln Val
 465 470 475 480
 Thr Leu Asn Gly Asp Lys Met Pro Leu Glu Thr Val Cys Gln Tyr Val
 485 490 495
 Trp Tyr Gly Arg Thr Leu Gly Met Pro Glu Pro Ala Glu Thr Ala Ala
 500 505 510
 Pro Pro Ala Val Pro Gln Gln Tyr Thr Lys Asn Pro Ser His Xaa Gly
 515 520 525
 Phe Phe Ile Ala Gly Trp Arg
 530 535

<210> 7010

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 7010

Gly Lys Arg Met Gly Leu Val Ile Lys Ala Thr Leu Gly Ala Leu Val
 1 5 10 15
 Val Leu Leu Ile Gly Val Leu Ala Lys Thr Lys Asn Tyr Trp Ile Ala
 20 25 30
 Gly Leu Ile Pro Leu Phe Pro Thr Phe Ala Leu Ile Ala His Tyr Ile
 35 40 45
 Val Ala Ser Glu Arg Gly Ile Glu Ala Leu Arg Ala Thr Ile Val Phe
 50 55 60
 Gly Met Trp Ser Ile Ile Pro Tyr Phe Ile Tyr Leu Leu Ser Leu Trp
 65 70 75 80
 Tyr Phe Thr Gly Phe Leu Arg Leu Pro Leu Ala Leu Gly Gly Ala Val
 85 90 95
 Val Cys Trp Ser Leu Ser Ala Trp Val Leu Ile Phe Phe Trp Ser Arg
 100 105 110
 Phe His
 115

<210> 7011

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7011

Val Met Thr Met His Arg Arg Glu Lys Asp Ser Met Gly Ala Ile Asp
 1 5 10 15
 Val Pro Ala Asp Lys Leu Trp Gly Ala Gln Thr Gln Arg Ser Leu Glu
 20 25 30
 His Phe Arg Ile Ser Thr Glu Lys Met Pro Val Ser Leu Ile Gln Ala
 35 40 45
 Leu Ala Leu Thr Lys Arg Ala Ala Ala Lys Val Asn Gln Asp Leu Gly
 50 55 60
 Leu Leu Asp Ala Asp Lys Ala Thr Ala Ile Ile Asn Ala Ala Asp Glu

65 70 75 80
 Val Leu Ala Gly Lys His Pro Asp Glu Phe Pro Leu Ala Ile Trp Gln
 85 90 95
 Thr Gly Ser Gly Thr Gln Ser Asn Met Asn Met Asn Glu Val Leu Ala
 100 105 110
 Asn Arg Ala Ser Glu Leu Leu Gly Gly Leu Arg Gly Met Glu Arg Lys
 115 120 125
 Ile His Pro Asn Asp Asp Val Asn Lys Ser Gln Ser Ser Asn Asp Val
 130 135 140
 Phe Pro Thr Ala Met His Val Ala Ala Val Ile Ala Ile Arg Glu Gln
 145 150 155 160
 Leu Ile Pro Gln Leu Asn Val Leu Lys Ser Thr Leu Asn Glu Lys Ala
 165 170 175
 Gln Ala Phe Arg Asp Ile Val Lys Ile Gly Arg Thr His Leu Gln Asp
 180 185 190
 Ala Thr Pro Leu Thr Leu Gly Gln Glu Ile Ser Gly Trp Val Ala Met
 195 200 205
 Leu Glu His Asn Leu Lys His Ile Asp Asn Ser Leu Pro His Leu Ala
 210 215 220
 Glu Leu Ala Leu Gly Gly Thr Ala Val Gly Thr Gly Leu Asn Thr His
 225 230 235 240
 Pro Glu Tyr Ala Val Arg Val Ala Glu Glu Leu Ala Lys Ile Thr Gly
 245 250 255
 Gln Pro Phe Val Thr Ala Pro Asn Lys Phe Glu Ala Leu Ala Thr Cys
 260 265 270
 Asp Ala Leu Val His Thr His Gly Ala Leu Lys Gly Leu Ala Ala Ser
 275 280 285
 Leu Met Lys Ile Ala Asn Asp Val Arg Trp Leu Ala Ser Gly Pro Arg
 290 295 300
 Cys Gly Ile Gly Glu Ile Ser Ile Pro Glu Asn Glu Pro Gly Ser Ser
 305 310 315 320
 Ile Met Pro Gly Lys Val Asn Pro Thr Gln Cys Glu Ala Met Thr Met
 325 330 335
 Leu Cys Cys Gln Val Met Gly Asn Asp Val Ala Val Asn Met Gly Gly
 340 345 350
 Ala Ser Gly Asn Phe Glu Leu Asn Val Tyr Arg Pro Met Val Ile His
 355 360 365
 Asn Val Leu Gln Ser Ile Arg Leu Leu Ala Asp Gly Met Glu Ser Phe
 370 375 380
 Asn Glu His Cys Ala Val Gly Ile Glu Pro Asn Arg Glu Arg Ile Ser
 385 390 395 400
 Gln Leu Leu Asn Glu Ser Leu Met Leu Val Thr Ala Leu Asn Thr His
 405 410 415
 Ile Gly Tyr Asp Lys Ala Ala Glu Ile Ala Lys Lys Ala His Lys Glu
 420 425 430
 Gly Leu Thr Leu Lys Ala Ser Ala Leu Ala Leu Gly Tyr Leu Thr Asp
 435 440 445
 Ala Glu Phe Asp Ala Trp Val Arg Pro Glu Ala Met Val Gly Ser Leu
 450 455 460
 Arg
 465

<210> 7012

<211> 572

<212> PRT

<213> Enterobacter cloacae

<400> 7012

Leu Ala Phe Lys Pro Gly Ser Gly Thr Ser Ala Leu Asn Lys Gln Thr
 1 5 10 15
 Glu Ala Val Ser Glu Arg Thr Met Ser Asn Lys Pro Phe His Tyr Gln

20					25					30				
Asp	Pro	Phe	Leu	Ser	Gln	Asp	Gln	Thr	Glu	Tyr	Tyr	Leu	Leu	Thr
	35						40					45		
Arg	Asp	Tyr	Val	Thr	Val	Ser	Glu	Phe	Glu	Gly	Gln	Glu	Ile	Leu
	50						55					60		
Val	Asp	Pro	Gln	Gly	Leu	Thr	Leu	Leu	Ala	Gln	Gln	Ala	Phe	His
	65						70					75		
Ala	Ser	Phe	Met	Leu	Arg	Pro	Ala	His	Gln	Gln	Gln	Val	Ala	Asp
Leu	Ser	Asp	Pro	Glu	Ala	Ser	Glu	Asn	Asp	Lys	Tyr	Val	Ala	Leu
Phe	Leu	Arg	Asn	Ser	Asp	Ile	Ala	Ala	Lys	Gly	Ile	Leu	Pro	Thr
Gln	Asp	Thr	Gly	Thr	Ala	Ile	Ile	Thr	Gly	Lys	Lys	Gly	Gln	Arg
Trp	Thr	Gly	Gly	Gly	Asp	Glu	Ala	Thr	Leu	Ala	Arg	Gly	Val	Tyr
145														
Thr	Tyr	Thr	Glu	Asp	Asn	Leu	Arg	Tyr	Ser	Gln	Asn	Ala	Ala	Leu
Met	Tyr	Lys	Glu	Val	Asn	Thr	Gly	Thr	Asn	Leu	Pro	Ala	Gln	Ile
Leu	Tyr	Ser	Val	Asp	Gly	Asp	Glu	Tyr	Lys	Phe	Leu	Cys	Ile	Ala
Gly	Gly	Gly	Ser	Ala	Asn	Lys	Thr	Tyr	Leu	Tyr	Gln	Glu	Thr	Lys
Leu	Leu	Thr	Pro	Gly	Lys	Leu	Lys	Asn	Tyr	Leu	Val	Glu	Lys	Met
225														
Thr	Leu	Gly	Thr	Ala	Ala	Cys	Pro	Pro	Tyr	His	Ile	Ala	Phe	Val
Gly	Gly	Thr	Ser	Ala	Glu	Ser	Thr	Leu	Lys	Thr	Val	Lys	Leu	Ala
Thr	Lys	Tyr	Tyr	Asp	Gly	Leu	Pro	Thr	Glu	Gly	Asn	Glu	His	Gly
Ala	Phe	Arg	Asp	Val	Gln	Leu	Glu	Gln	Glu	Leu	Leu	Ala	Glu	Ala
Asn	Leu	Gly	Leu	Gly	Ala	Gln	Phe	Gly	Gly	Lys	Tyr	Phe	Ala	His
Ile	Arg	Val	Ile	Arg	Leu	Pro	Arg	His	Gly	Ala	Ser	Cys	Pro	Val
Met	Gly	Val	Ser	Cys	Ser	Ala	Asp	Arg	Asn	Ile	Lys	Ala	Lys	Ile
Arg	Asp	Gly	Ile	Trp	Ile	Glu	Lys	Leu	Glu	Asn	Asn	Pro	Gly	Lys
Ile	Pro	Glu	Glu	Leu	Arg	Lys	Ala	Gly	Glu	Gly	Glu	Ala	Val	Arg
Asp	Leu	Asn	Arg	Pro	Met	Lys	Glu	Ile	Leu	Ala	Gln	Leu	Ser	Gln
Pro	Val	Ser	Thr	Arg	Leu	Ser	Leu	Asn	Gly	Thr	Ile	Ile	Val	Gly
Asp	Ile	Ala	His	Ala	Lys	Leu	Lys	Glu	Arg	Leu	Asp	Asn	Gly	Glu
Leu	Pro	Gln	Tyr	Ile	Lys	Asp	His	Pro	Ile	Tyr	Tyr	Ala	Gly	Pro
Lys	Thr	Pro	Asp	Gly	Tyr	Ala	Ser	Gly	Ser	Leu	Gly	Pro	Thr	Thr
Gly	Arg	Met	Asp	Ser	Tyr	Val	Asp	Gln	Leu	Gln	Ala	Asn	Gly	Gly
Met	Ile	Met	Leu	Ala	Lys	Gly	Asn	Arg	Ser	Gln	Gln	Val	Thr	Asp
Cys	His	Lys	His	Gly	Gly	Phe	Tyr	Leu	Gly	Ser	Ile	Gly	Gly	Pro

Ala Val Leu Ala Gln Gly Ser Ile Lys Ser Leu Glu Cys Val Glu Tyr
 515 520
 Pro Glu Leu Gly Met Glu Ala Ile Trp Lys Ile Glu Val Glu Asp Phe
 530 535 540
 Pro Ala Phe Ile Leu Val Asp Asp Lys Gly Asn Asp Phe Phe Lys Gln
 545 550 555 560
 Ile Gln Ser Ser Gln Cys Ser Ala Cys Val Lys
 565 570

<210> 7013

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 7013

Glu Phe Lys Met Val Lys Val Tyr Ala Pro Ala Ser Ser Ala Asn Met
 1 5 10 15
 Ser Val Gly Phe Asp Val Leu Gly Ala Ala Val Thr Pro Val Asp Gly
 20 25 30
 Ser Leu Leu Gly Asp Thr Val Thr Val Glu Ala Ala Glu Arg Phe Ser
 35 40 45
 Leu Asn Asn Ile Gly Arg Phe Ala Ser Lys Leu Pro Ser Glu Pro Arg
 50 55 60
 Glu Asn Ile Val Tyr Gln Cys Trp Glu Arg Phe Cys Gln Glu Ile Gly
 65 70 75 80
 Lys Asn Val Pro Val Ala Met Thr Leu Glu Lys Ser Met Pro Ile Gly
 85 90 95
 Ser Gly Leu Gly Ser Ser Ala Cys Ser Val Val Ala Ala Leu Val Ala
 100 105 110
 Met Asn Glu His Cys Gly Lys Pro Leu Asn Asn Ser Arg Leu Leu Ala
 115 120 125
 Leu Met Gly Glu Leu Glu Gly Arg Ile Ser Gly Ser Ile His Tyr Asp
 130 135 140
 Asn Val Ala Pro Cys Phe Leu Gly Gly Met Gln Leu Met Ile Glu Glu
 145 150 155 160
 Asn Gly Ile Ile Ser Gln Gln Val Pro Gly Phe Asp Glu Trp Leu Trp
 165 170 175
 Val Leu Ala Tyr Pro Gly Ile Lys Val Ser Thr Ala Glu Ala Arg Ala
 180 185 190
 Ile Leu Pro Ala Gln Tyr Arg Arg Gln Asp Cys Ile Ala His Gly Arg
 195 200 205
 His Leu Ala Gly Phe Ile His Ala Cys Tyr Thr Arg Gln Pro Gln Leu
 210 215 220
 Ala Ala Lys Leu Met Lys Asp Ile Ile Ala Glu Pro Tyr Arg Thr Lys
 225 230 235 240
 Leu Leu Pro Gly Phe Asn Glu Ala Arg Gln Ala Ser Met Asp Ile Gly
 245 250 255
 Ala Gln Ala Cys Gly Ile Ser Gly Ser Gly Pro Thr Leu Phe Ala Leu
 260 265 270
 Cys Asp Lys Pro Asp Thr Ala Gln Arg Val Ala Asp Trp Leu Ser Lys
 275 280 285
 His Tyr Leu Gln Asn Gln Glu Gly Phe Val His Ile Cys Arg Leu Asp
 290 295 300
 Thr Ala Gly Ala Arg Val Leu Gly
 305 310

<210> 7014

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 7014

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Arg Met Lys Leu Tyr Asn Leu Lys Asp His Asn Glu Gln Val Ser Phe
1      5      10      15
Ala Gln Ala Val Thr Gln Gly Leu Gly Lys Asn Gln Gly Leu Phe Phe
20      25      30
Pro His Asp Leu Pro Glu Phe Gln Leu Thr Glu Ile Asp Glu Leu Leu
35      40      45
Lys Gln Asp Phe Val Thr Arg Ser Thr Lys Ile Leu Ser Ala Phe Ile
50      55      60
Gly Asp Glu Ile Pro Gln Glu Leu Leu Glu Glu Arg Val Arg Ala Ala
65      70      75      80
Phe Ala Phe Pro Ala Pro Val Lys Gln Val Glu Pro Asp Val Gly Cys
85      90      95
Leu Glu Leu Phe His Gly Pro Thr Leu Ala Phe Lys Asp Phe Gly Gly
100     105     110
Arg Phe Met Ala Gln Met Leu Thr His Ile Ser Gly Asp Lys Pro Val
115     120     125
Thr Ile Leu Thr Ala Thr Ser Gly Asp Thr Gly Ala Ala Val Ala His
130     135     140
Ala Phe Tyr Gly Leu Lys Asn Val Arg Val Val Ile Leu Tyr Pro Lys
145     150     155     160
Gly Lys Ile Ser Pro Leu Gln Glu Lys Leu Phe Cys Thr Leu Gly Gly
165     170     175
Asn Ile Glu Thr Val Ala Ile Asp Gly Asp Phe Asp Ala Cys Gln Ala
180     185     190
Leu Val Lys Gln Ala Phe Asp Asp Glu Glu Leu Lys Ala Ala Leu Gly
195     200     205
Leu Asn Ser Ala Asn Ser Ile Asn Ile Ser Arg Leu Leu Ala Gln Ile
210     215     220
Cys Tyr Tyr Phe Glu Ala Val Ala Gln Leu Pro Gln Asp Ala Arg Asn
225     230     235     240
Gln Leu Val Val Ser Val Pro Ser Gly Asn Phe Gly Asp Leu Thr Ala
245     250     255
Gly Leu Leu Ala Lys Ser Leu Gly Leu Pro Val Lys Arg Phe Ile Ala
260     265     270
Ala Thr Asn Ala Asn Asp Thr Val Pro Arg Phe Leu Lys Asp Gly Lys
275     280     285
Trp Ala Pro Asn Ala Thr Gln Ala Thr Leu Ser Asn Ala Met Asp Val
290     295     300
Ser Gln Pro Asn Asn Trp Pro Arg Val Glu Glu Leu Phe Arg Arg Lys
305     310     315     320
Val Trp Arg Leu Gly Asp Leu Gly Tyr Ala Ala Val Thr Asp Glu Thr
325     330     335
Thr Lys Ala Thr Met Arg Glu Leu Lys Ala Val Gly Tyr Thr Ser Glu
340     345     350
Pro His Ala Ala Ile Ala Tyr Arg Ala Leu Arg Asp Gln Leu Gln Pro
355     360     365
Gly Glu Tyr Gly Leu Phe Leu Gly Thr Ala His Pro Ala Lys Phe Lys
370     375     380
Glu Ser Val Glu Ala Ile Leu Gly Glu Thr Leu Pro Leu Pro Lys Glu
385     390     395     400
Leu Ala Glu Arg Ala Asp Leu Pro Leu Leu Ser His Glu Leu Pro Ala
405     410     415
Asp Phe Ala Ala Leu Arg Lys Leu Met Met Thr Arg Ala
420     425     430

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<210> 7015

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 7015

Lys Arg Asn Thr Ile Met Thr Asp Lys Leu Thr Ser Leu Arg Gln Phe
 1 5 10 15
 Thr Thr Val Val Ala Asp Thr Gly Asp Ile Ala Ala Met Lys Leu Tyr
 20 25 30
 Gln Pro Gln Asp Ala Thr Thr Asn Pro Ser Leu Ile Leu Asn Ala Ala
 35 40 45
 Gln Leu Pro Glu Tyr Arg Lys Leu Ile Asp Glu Ala Val Thr Trp Ala
 50 55 60
 Lys Ala Gln Ser Asn Asp Arg Ala Gln Gln Val Val Asp Ala Thr Asp
 65 70 75 80
 Lys Leu Ala Val Asn Ile Gly Leu Glu Ile Leu Lys Leu Val Pro Gly
 85 90 95
 Arg Ile Ser Thr Glu Val Asp Ala Arg Leu Ser Tyr Asp Thr Glu Ala
 100 105 110
 Ser Ile Ala Lys Ala Lys Arg Leu Ile Lys Leu Tyr Asn Asp Ala Gly
 115 120 125
 Ile Ser Asn Asp Arg Ile Leu Ile Lys Leu Ala Ser Thr Trp Gln Gly
 130 135 140
 Ile Arg Ala Ala Glu Gln Leu Glu Lys Glu Gly Ile Asn Cys Asn Leu
 145 150 155 160
 Thr Leu Leu Phe Ser Phe Ala Gln Ala Arg Ala Cys Ala Glu Ala Gly
 165 170 175
 Val Tyr Leu Ile Ser Pro Phe Val Gly Arg Ile Leu Asp Trp Tyr Lys
 180 185 190
 Ala Asn Thr Asp Lys Lys Glu Tyr Ala Ala Ser Glu Asp Pro Gly Val
 195 200 205
 Ile Ser Val Thr Glu Ile Tyr Glu Tyr Tyr Lys Gln His Gly Tyr Glu
 210 215 220
 Thr Val Val Met Gly Ala Ser Phe Arg Asn Val Gly Glu Ile Ile Glu
 225 230 235 240
 Leu Ala Gly Cys Asp Arg Leu Thr Ile Ala Pro Ala Leu Leu Lys Glu
 245 250 255
 Leu Ala Glu Ser Glu Gly Ala Ile Glu Arg Lys Leu Ser Tyr Thr Gly
 260 265 270
 Glu Val Lys Ala Arg Pro Glu Arg Ile Thr Glu Ser Glu Phe Leu Trp
 275 280 285
 Gln His Asn Gln Asp Pro Met Ala Val Asp Lys Leu Ala Asp Gly Ile
 290 295 300
 Arg Lys Phe Ala Ile Asp Gln Glu Lys Leu Glu Lys Met Ile Gly Asp
 305 310 315 320
 Leu Leu

<210> 7016

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7016

Pro Glu Arg Asp Phe Cys Arg Val Ala Ala Thr Pro Tyr Arg Ala Tyr
 1 5 10 15
 Asn Gly Ser Glu Arg Arg Pro Gly Lys Arg Ser Ala Thr Arg Leu Phe
 20 25 30
 Tyr Gly Glu Ile Lys Glu Lys Asn Ser Arg Lys Lys Ala Glu Ile Pro
 35 40 45
 Asn Lys Cys Gly His Leu Ala Phe Arg Ile Ala Glu Asn Asn Ile Pro
 50 55 60
 Arg Ser His His Val Leu Ser Leu His Arg Pro Thr Leu Gly Lys Lys
 65 70 75 80
 Asn Lys Glu Ser Pro Met Ser Thr Leu Lys Pro Ala Leu Ile Ala Leu

Ser Leu Met Leu Val Ala Pro Met Ala Val Gln Ala Ala Glu Ile Thr 85 90 95
 100 105 110
 Leu Val Pro Ala Val Lys Leu Gln Ile Gly Asp Arg Asp Asn Asn Gly
 115 120 125
 His Tyr Trp Asp Gly Gly Arg Trp Arg Asp His Asp Trp Trp Lys Ala
 130 135 140
 His Tyr Asp Trp Arg Asp Asn His Trp Arg Pro His Asp Glu His Arg
 145 150 155 160
 Asp Arg Asp Asp His His Arg His Asp Asp Arg Arg Pro Asp Arg Lys
 165 170 175
 His Tyr

<210> 7017

<211> 450

<212> PRT

<213> *Enterobacter cloacae*

<400> 7017

Ser Thr Thr His Ala Gln Trp Phe Ala Met Ser His Asn Thr Arg Pro
 1 5 10 15
 Leu Asn Arg Gln Asp Tyr Lys Thr Leu Thr Leu Ala Ala Leu Gly Gly
 20 25 30
 Ala Leu Glu Phe Tyr Asp Phe Ile Ile Phe Val Phe Phe Ala Ala Val
 35 40 45
 Val Gly Ala Leu Phe Phe Pro Ala Asp Ile Pro Glu Trp Leu Arg Gln
 50 55 60
 Val Gln Thr Phe Gly Ile Phe Ala Ala Gly Tyr Leu Ala Arg Pro Leu
 65 70 75 80
 Gly Gly Ile Val Met Ala His Phe Gly Asp Leu Val Gly Arg Lys Lys
 85 90 95
 Met Phe Thr Leu Ser Ile Leu Leu Met Ala Val Pro Thr Leu Ala Ile
 100 105 110
 Gly Leu Leu Pro Thr Tyr Glu Ser Met Gly Ile Ile Ala Pro Leu Leu
 115 120 125
 Leu Leu Leu Met Arg Ile Leu Gln Gly Ala Ala Ile Gly Gly Glu Val
 130 135 140
 Pro Gly Ala Trp Val Phe Val Ala Glu His Val Pro Val Arg Arg Ile
 145 150 155 160
 Gly Ile Ala Cys Gly Thr Leu Thr Ala Gly Leu Thr Ile Gly Ile Leu
 165 170 175
 Phe Gly Ser Val Val Ala Thr Ile Ile Asn Thr Ser Met Thr Gln Gln
 180 185 190
 Ala Val His Asp Trp Gly Trp Arg Ile Pro Phe Leu Leu Gly Gly Ala
 195 200 205
 Phe Gly Leu Val Ala Met Tyr Leu Arg Arg Trp Leu Gln Glu Thr Pro
 210 215 220
 Ile Phe Leu Glu Met Gln Gln Arg Lys Ala Leu Ala Gln Glu Leu Pro
 225 230 235 240
 Val Lys Thr Val Val Arg His Lys Lys Ala Val Val Val Ser Met
 245 250 255
 Leu Leu Thr Trp Leu Leu Ser Ala Gly Ile Val Val Val Ile Leu Met
 260 265 270
 Ser Pro Val Trp Leu Gln Lys Gln Tyr Gly Phe Ala Pro Ala Val Thr
 275 280 285
 Leu Gln Ala Asn Ser Ile Ala Thr Ile Met Leu Cys Phe Gly Cys Leu
 290 295 300
 Ala Ala Gly Leu Ala Ala Asp Arg Phe Gly Ala Ser Val Thr Phe Ile
 305 310 315 320
 Val Gly Ser Leu Leu Leu Ala Ala Ser Ser Trp Ala Phe Tyr His Leu

325 330 335
 Ala Gly Thr His Pro Glu Gln Leu Phe Leu Leu Tyr Gly Val Val Gly
 340 345 350
 Leu Cys Val Gly Val Val Gly Ala Val Pro Tyr Val Met Val Arg Ala
 355 360 365
 Phe Pro Pro Glu Val Arg Phe Thr Gly Ile Ser Phe Ser Tyr Asn Val
 370 375 380
 Ser Tyr Ala Ile Phe Gly Gly Leu Thr Pro Ile Val Val Thr Val Leu
 385 390 395 400
 Met Gly Leu Ser Pro Leu Ala Pro Ala Trp Tyr Val Leu Ala Leu Ser
 405 410 415
 Leu Met Gly Leu Val Leu Gly Met Trp Leu Arg Gln Ser Glu Gly Arg
 420 425 430
 Arg Ala Arg Asp Ala Gly Thr Thr Glu Gly Ser Val Phe Phe Thr Asn
 435 440 445
 Arg
 450

<210> 7018

<211> 822

<212> PRT

<213> *Enterobacter cloacae*

<400> 7018

Asn Met Arg Val Leu Lys Phe Gly Gly Thr Ser Val Ala Asn Ala Glu
 1 5 10 15
 Arg Phe Leu Arg Val Ala Asp Ile Leu Glu Ser Asn Ala Arg Gln Gly
 20 25 30
 Gln Val Ala Thr Val Leu Ser Ala Pro Ala Lys Ile Thr Asn His Leu
 35 40 45
 Val Ala Met Ile Glu Lys Thr Ile Gly Gly Gln Asp Ala Leu Pro Asn
 50 55 60
 Ile Ser Asp Ala Glu Arg Ile Phe Ala Asp Leu Leu Gln Gly Leu Ala
 65 70 75 80
 Asp Ala Gln Pro Gly Phe Pro Leu Ala Gln Leu Lys Ser Thr Val Glu
 85 90 95
 Leu Glu Phe Ala Gln Ile Lys His Val Leu His Gly Ile Ser Leu Leu
 100 105 110
 Gly Gln Cys Pro Asp Ser Ile Asn Ala Ala Leu Ile Cys Arg Gly Glu
 115 120 125
 Lys Leu Ser Ile Ala Ile Met Ala Gly Val Leu Glu Ala Arg Gly His
 130 135 140
 His Val Thr Val Ile Asp Pro Val Glu Lys Leu Leu Ala Val Gly His
 145 150 155 160
 Tyr Leu Glu Ser Thr Val Asp Ile Ala Glu Ser Thr Arg Arg Ile Ala
 165 170 175
 Ala Ser Lys Ile Pro Ser Asp His Met Ile Leu Met Ala Gly Phe Thr
 180 185 190
 Ala Gly Asn Glu Lys Gly Glu Leu Val Val Leu Gly Arg Asn Gly Ser
 195 200 205
 Asp Tyr Ser Ala Ala Val Leu Ala Ala Cys Leu Arg Ala Asp Cys Cys
 210 215 220
 Glu Ile Trp Thr Asp Val Asp Gly Val Tyr Thr Cys Asp Pro Arg Gln
 225 230 235 240
 Val Pro Asp Ala Arg Leu Leu Lys Ser Met Ser Tyr Gln Glu Ala Met
 245 250 255
 Glu Leu Ser Tyr Phe Gly Ala Lys Val Leu His Pro Arg Thr Ile Ser
 260 265 270
 Pro Ile Ala Gln Phe Gln Ile Pro Cys Leu Ile Lys Asn Thr Gly Asn
 275 280 285
 Pro Gln Ala Pro Gly Thr Leu Ile Gly Ala Ser Ala Asp Glu Asp Asp

290	295	300
Leu Pro Val Lys Gly Ile	Ser Asn Leu Asn Asn Met Ala Met Phe Ser	
305	310	315
Val Ser Gly Pro Gly Met Lys Gly Met Val Gly Met Ala Ala Arg Val		320
	325	330
Phe Ala Ala Met Ser Arg Asn Gly Ile Ser Val Val Leu Ile Thr Gln		335
	340	345
Ser Ser Ser Glu Tyr Ser Ile Ser Phe Cys Val Pro Gln Gly Asp Cys		350
	355	360
Leu Arg Ala Arg Arg Ala Leu Glu Glu Glu Phe Tyr Leu Glu Leu Lys		365
	370	375
Glu Glu Leu Leu Glu Pro Leu Ser Ile Gln Glu Arg Leu Ala Ile Ile		380
385	390	395
Ser Val Val Gly Asp Gly Met Arg Thr Leu Arg Gly Ile Ser Ala Lys		400
	405	410
Phe Phe Ala Ala Leu Ala Arg Ala Asn Ile Asn Ile Val Ala Ile Ala		415
	420	425
Gln Gly Ser Ser Glu Arg Ser Ile Ser Val Val Val Asp Asn Asp Asp		430
	435	440
Ala Thr Thr Gly Val Arg Val Val His Gln Met Leu Phe Asn Thr Asp		445
	450	455
Gln Val Ile Glu Leu Phe Leu Val Gly Val Gly Val Gly Gly Ala		460
465	470	475
Leu Leu Glu Gln Val Lys Arg Gln Gln Glu Trp Leu Lys Lys Lys His		480
	485	490
Ile Asp Leu Arg Val Cys Gly Ile Ala Asn Ser Lys Ala Leu Leu Thr		495
	500	505
Asn Val His Gly Leu Asn Leu Glu Asn Trp Gln Ala Glu Leu Glu Glu		510
	515	520
Ala Lys Glu Pro Phe Asn Leu Gly Arg Leu Ile Arg Leu Val Lys Glu		525
	530	535
Tyr His Leu Leu Asn Pro Val Ile Val Asp Cys Thr Ser Ser Gln Ala		540
545	550	555
Val Ala Asp Gln Tyr Ala Asp Phe Leu Arg Glu Gly Phe His Val Val		560
	565	570
Thr Pro Asn Lys Lys Ala Asn Thr Ser Ser Met Asp Tyr Tyr His Gln		575
	580	585
Leu Arg Leu Ala Ala Ser Lys Ser Arg Arg Lys Phe Leu Tyr Asp Thr		590
	595	600
Asn Val Gly Ala Gly Leu Pro Val Ile Glu Asn Leu Gln Asn Leu Leu		605
	610	615
Asn Ala Gly Asp Glu Leu Lys Arg Phe Ser Gly Ile Leu Ser Gly Ser		620
625	630	635
Leu Ser Phe Ile Phe Gly Lys Leu Asp Glu Gly Met Ser Leu Ser Glu		640
	645	650
Ala Thr Arg Ala Ala Arg Glu Leu Gly Tyr Thr Glu Pro Asp Pro Arg		655
	660	665
Asp Asp Leu Ser Gly Met Asp Val Ala Arg Lys Leu Leu Ile Leu Val		670
	675	680
Arg Glu Thr Gly Arg Glu Leu Glu Leu Ser Asp Ile Val Ile Glu Pro		685
	690	695
Val Leu Pro Ala Glu Phe Asp Asp Ser Gly Asp Val Ser Ala Phe Met		700
705	710	715
Ala Asn Leu Pro Gln Leu Asp Asp Ala Phe Ala Ala Arg Val Ala Lys		720
	725	730
Ala Arg Asp Glu Gly Lys Val Leu Arg Tyr Val Gly Asn Ile Glu Glu		735
	740	745
Asp Gly Val Cys Arg Val Lys Ile Ala Glu Val Asp Gly Asn Asp Pro		750
	755	760
Leu Tyr Lys Val Lys Asn Gly Glu Asn Ala Leu Ala Phe Tyr Ser His		765
	770	775
		780

Tyr Tyr Gln Pro Leu Pro Leu Val Leu Arg Gly Tyr Gly Ala Gly Asn
 785 790 795 800
 Asp Val Thr Ala Ala Gly Val Phe Ala Asp Leu Leu Arg Thr Leu Ser
 805 810 815
 Trp Lys Leu Gly Val
 820

<210> 7019

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 7019

Val Cys Tyr Arg Pro Gly Lys Thr Gly Lys Asn Asp Arg Arg Pro Ala
 1 5 10 15
 Val Ile Ile Leu Arg Asp Arg Val Pro Gly His Ala Ser Phe Pro Arg
 20 25 30
 Leu Cys Leu Asn Phe Leu Ser Ala Cys Ile Ile Pro Phe Asn Gln Tyr
 35 40 45
 Phe Leu Asn Gly Met Asp Met Asn Thr Leu Arg Ile Gly Leu Val Ser
 50 55 60
 Ile Ser Asp Arg Ala Ser Ser Gly Val Tyr Gln Asp Lys Gly Ile Pro
 65 70 75 80
 Ala Leu Glu Ala Trp Leu Gly Ser Ala Leu Thr Thr Pro Phe Glu Ile
 85 90 95
 Gln Thr Arg Leu Ile Pro Asp Glu Gln Pro Ile Ile Glu Gln Thr Leu
 100 105 110
 Cys Glu Leu Val Asp Glu Met Ser Cys His Leu Val Leu Thr Thr Gly
 115 120 125
 Gly Thr Gly Pro Ala Arg Arg Asp Val Thr Pro Asp Ala Thr Leu Ala
 130 135 140
 Ile Ala Asp Arg Glu Met Pro Gly Phe Gly Glu Gln Met Arg Gln Ile
 145 150 155 160
 Ser Leu His Phe Val Pro Thr Ala Ile Leu Ser Arg Gln Val Gly Val
 165 170 175
 Ile Arg Lys Gln Ala Leu Ile Leu Asn Leu Pro Gly Gln Pro Lys Ser
 180 185 190
 Ile Lys Glu Thr Leu Glu Gly Val Lys Ala Glu Asp Gly Ser Val Ile
 195 200 205
 Val His Gly Ile Phe Ala Ser Val Pro Tyr Cys Ile Gln Leu Leu Asp
 210 215 220
 Gly Pro Tyr Val Glu Thr Asp Gly Asn Val Val Ala Ala Phe Arg Pro
 225 230 235 240
 Lys Ser Ala Arg Arg Glu Thr Ile Ser
 245 250

<210> 7020

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 7020

Val Thr Ala Cys Thr Ile Ser Gly Ser Ala Tyr Ile Phe Thr Leu Ala
 1 5 10 15
 Ser Thr Arg Gly Thr Leu Val Pro Asp Phe Phe Phe Phe Ile Asn Glu
 20 25 30
 Val Leu Trp Gly Ser Ile Met Ile Tyr Leu Leu Ser Gly Ala Gly Ile
 35 40 45
 Trp Phe Thr Trp Arg Ser Gly Leu Ile Gln Phe Arg Tyr Ile Arg Lys
 50 55 60
 Phe Gly Arg Ser Leu Lys Asn Ser Val Thr Pro Gln Pro Gly Gly Leu

65					70					75					80
Thr	Ser	Phe	Gln	Ala	Leu	Cys	Thr	Ser	Leu	Ala	Ala	Arg	Val	Gly	Ser
				85					90					95	
Gly	Asn	Leu	Ala	Gly	Val	Ala	Leu	Ala	Ile	Gly	Ala	Gly	Gly	Pro	Gly
			100					105					110		
Ala	Val	Phe	Trp	Met	Trp	Val	Thr	Ala	Ile	Ile	Gly	Met	Ala	Thr	Ser
		115					120					125			
Phe	Ala	Glu	Cys	Ser	Leu	Ala	Gln	Leu	Tyr	Lys	Glu	Lys	Asp	Gly	Lys
		130				135					140				
Gly	Gln	Phe	Arg	Gly	Gly	Pro	Ala	Trp	Tyr	Met	Ala	Arg	Gly	Leu	Gly
145					150					155				160	
Met	Arg	Trp	Met	Gly	Val	Leu	Phe	Ser	Ile	Phe	Leu	Leu	Ile	Ala	Tyr
				165					170					175	
Gly	Leu	Ile	Phe	Asn	Thr	Val	Gln	Ala	Asn	Ser	Val	Ala	His	Ala	Leu
			180					185					190		
Arg	Phe	Ala	Phe	Asn	Cys	Pro	Glu	Trp	Leu	Thr	Gly	Gly	Ala	Leu	Ala
		195					200					205			
Leu	Leu	Thr	Leu	Leu	Thr	Ile	Val	Thr	Gly	Leu	Lys	Gly	Val	Ala	Arg
		210				215					220				
Leu	Met	Gln	Trp	Leu	Val	Pro	Leu	Met	Ala	Leu	Leu	Trp	Val	Ser	Thr
225					230					235				240	
Ser	Leu	Met	Val	Cys	Ala	Ile	His	Ile	Asp	Glu	Val	Pro	Asn	Val	Ile
				245					250					255	
Val	Thr	Ile	Phe	Gln	Ser	Ala	Phe	Gly	Trp	Arg	Glu	Ala	Ala	Ser	Gly
			260					265					270		
Ala	Leu	Gly	Tyr	Thr	Leu	Ser	Gln	Ala	Leu	Thr	Ala	Gly	Phe	Gln	Arg
		275					280					285			
Gly	Met	Phe	Ser	Asn	Glu	Ala	Gly	Met	Gly	Ser	Thr	Pro	Asn	Ala	Ala
		290				295					300				
Ala	Ala	Ala	Ala	Ser	Trp	Pro	Pro	His	Pro	Ala	Ala	Gln	Gly	Ile	Val
305					310					315				320	
Gln	Met	Ile	Gly	Val	Phe	Thr	Asp	Thr	Ile	Val	Ile	Cys	Ser	Ala	Ser
			325						330					335	
Ala	Met	Ile	Met	Leu	Leu	Ala	Gly	Ala	Ala	Glu	Gln	Pro	Ser	Gly	Ser
			340					345					350		
Thr	Ala	Gly	Ile	His	Trp	Val	Gln	Gln	Ala	Leu	Val	Ser	Leu	Val	Gly
		355				360						365			
Gly	Trp	Gly	Ala	Gly	Leu	Val	Ala	Leu	Val	Val	Gly	Leu	Phe	Ala	Phe
		370				375					380				
Ser	Ser	Ile	Ala	Val	Asn	Tyr	Met	Tyr	Ala	Glu	Asn	Asn	Leu	Ile	Phe
385					390					395				400	
Leu	Lys	Val	Asn	Ser	Cys	Leu	Thr	Arg	Asn	Val	Leu	Arg	Ala	Gly	Val
			405					410						415	
Leu	Gly	Met	Val	Phe	Val	Gly	Ser	Leu	Leu	Gly	Met	Pro	Leu	Val	Trp
		420					425					430			
Gln	Ile	Ala	Asp	Val	Ile	Met	Ala	Leu	Met	Ala	Ile	Thr	Asn	Leu	Thr
		435				440						445			
Ala	Ile	Leu	Leu	Leu	Ser	Pro	Val	Val	Ala	Leu	Ile	Ala	Arg	Asp	Tyr
		450				455					460				
Leu	Arg	Gln	Arg	Lys	Leu	Gly	Val	Gln	Pro	Val	Phe	Asp	Ala	Ser	Arg
465					470					475				480	
Tyr	Pro	Glu	Ile	Glu	Ser	Gln	Ile	Ala	Pro	Gly	Thr	Trp	Asp	Asp	Leu
				485				490						495	
Pro	Arg	Gln													

500

<210> 7021

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 7021

Gln Leu Ser Ile Asn Ser Gly Arg Phe Phe Val Lys Val Ala Leu Asn
 1 5 10 15
 Phe Leu Gln Gly Leu Asp Met Leu Ile Leu Ser Pro Ala Lys Thr
 20 25 30
 Leu Asp Tyr Gln Ser Pro Leu Ala Thr Glu Arg Tyr Thr Gln Pro Glu
 35 40 45
 Leu Leu Asp Tyr Ser Gln Gln Leu Ile His Glu Ala Arg Lys Leu Ser
 50 55 60
 Ala Pro Gln Ile Ala Ser Leu Met Ser Ile Ser Asp Lys Leu Ala Asp
 65 70 75 80
 Leu Asn Ala Thr Arg Phe His Glu Trp Gln Pro Asp Phe Thr Pro Ala
 85 90 95
 Asn Ala Arg Gln Ala Leu Leu Ala Phe Lys Gly Asp Val Tyr Thr Gly
 100 105 110
 Leu Gln Ala Glu Thr Phe Ser Glu Ala Asp Phe Asp Phe Ala Gln Gln
 115 120 125
 His Leu Arg Met Leu Ser Gly Leu Tyr Gly Val Leu Arg Pro Leu Asp
 130 135 140
 Leu Met Gln Pro Tyr Arg Leu Glu Met Gly Ile Arg Leu Glu Asn Ala
 145 150 155 160
 Lys Gly Lys Asp Leu Tyr Gln Phe Trp Gly Asp Val Ile Thr Asp Lys
 165 170 175
 Leu Asn Ala Ala Leu Gln Ala Gln Gly Asp Asn Val Val Ile Asn Leu
 180 185 190
 Ala Ser Asp Glu Tyr Phe Lys Ser Val Lys Pro Lys Lys Leu Asp Ala
 195 200 205
 Asp Ile Ile Lys Pro Val Phe Leu Asp Glu Lys Asn Gly Lys Phe Lys
 210 215 220
 Val Ile Ser Phe Tyr Ala Lys Lys Ala Arg Gly Leu Met Ser Arg Phe
 225 230 235 240
 Ile Ile Gln Asn Arg Leu Thr Lys Pro Glu Gln Leu Thr Gly Phe Asn
 245 250 255
 Ser Glu Gly Tyr Phe Phe Asp Glu Ala Ser Ser Gly Lys Asn Glu Leu
 260 265 270
 Val Phe Lys Arg His Glu Gln
 275 280

<210> 7022

<211> 188

<212> PRT

<213> *Enterobacter cloacae*

<400> 7022

His Pro Tyr Cys Leu Phe Asn Val Ser Cys Ala Arg Arg Leu Gly Leu
 1 5 10 15
 Gly Met Thr Thr Asn Leu Leu Ile Leu His Asn Ile Gly Met Phe Pro
 20 25 30
 Met Asp Gly Ile Ile Leu Pro Met Gly Ile Phe Tyr Gly Gly Ile Ala
 35 40 45
 Gln Ile Phe Ala Gly Leu Leu Glu Tyr Lys Lys Gly Asn Thr Phe Gly
 50 55 60
 Leu Thr Ala Phe Thr Ser Tyr Gly Ser Phe Trp Leu Thr Leu Val Ala
 65 70 75 80
 Ile Leu Leu Met Pro Lys Met Gly Leu Ala Glu Ala Ala Asn Ala His
 85 90 95
 Phe Leu Gly Val Tyr Leu Gly Leu Trp Gly Val Phe Thr Leu Phe Met
 100 105 110
 Phe Phe Gly Thr Leu Lys Ala Asn Arg Ala Leu Gln Phe Val Phe Leu
 115 120 125
 Ser Leu Thr Val Leu Phe Ala Leu Leu Ala Ile Gly His Leu Ala Asp

130	135	140
Asn Glu Gly Ile Val His Val Ala Gly Trp Val Gly Leu Val Cys Gly		
145	150	155
Ala Ser Ala Ile Tyr Leu Ala Met Gly Glu Val Leu Asn Glu Gln Phe		160
	165	170
Asp Arg Thr Ile Leu Pro Ile Gly Glu Lys His		175
180	185	

<210> 7023

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 7023

Thr Thr Leu Phe Ala Ala Ala Leu Ala Val Val Gly Phe Cys Lys Thr	
1	5
Ala Ser Ala Val Thr Tyr Pro Leu Pro Thr Asp Gly Ser Arg Leu Val	10
	20
Gly Glu Asn Gln Val Val Thr Val Pro Glu Gly Asn Thr Gln Pro Leu	25
	30
Glu Tyr Phe Ala Ala Gln Tyr Gln Leu Gly Leu Ser Asn Met Leu Glu	35
	40
Ala Asn Pro Gly Val Asp Pro Tyr Leu Pro Lys Ala Gly Thr Val Leu	45
65	50
Asn Ile Pro Gln Gln Leu Ile Leu Pro Asp Thr Val His Glu Gly Ile	55
	60
Val Ile Asn Ser Ala Glu Met Arg Leu Tyr Tyr Pro Lys Gly Thr	65
	70
Asn Thr Val Ile Val Leu Pro Ile Gly Ile Gly Gln Leu Gly Lys Asp	75
	80
Thr Pro Leu Asn Trp Thr Thr Lys Val Glu Arg Lys Lys Ala Gly Pro	85
	90
Thr Trp Thr Pro Thr Ala Lys Met His Ala Glu Tyr Ile Ala Ala Gly	95
145	100
Glu Pro Leu Pro Thr Val Val Pro Ala Gly Pro Asp Asn Pro Met Gly	105
	110
Leu Tyr Ala Leu Tyr Ile Gly Arg Leu Tyr Ala Ile His Gly Thr Asn	115
	120
Ala Asn Phe Gly Ile Gly Leu Arg Val Ser His Gly Cys Val Arg Leu	125
	130
Arg Asn Glu Asp Ile Lys Phe Leu Phe Asp Asn Val Pro Val Gly Thr	135
	140
Arg Val Gln Phe Ile Asn Glu Pro Val Lys Ala Thr Ser Glu Pro Asp	145
225	150
Gly Ser Arg Tyr Ile Glu Val His Asn Pro Leu Ser Thr Ser Glu Asp	155
	160
Gln Ile Asn Asn Asn Glu Ile Val Pro Ile Lys Leu Thr Ser Ala Val	165
	170
Gln Ser Val Thr Ser Gln Ala Asp Val Asp Thr Thr Ile Val Asp Gln	175
	180
Ala Ile Gln Asn Arg Ser Gly Met Pro Val Arg Leu Asn	185
290	190

<210> 7024

<211> 336

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (328)

<400> 7024

Ser Met Asn Val Thr Leu Ile Asp Thr Leu Val Thr Arg Ser Arg Gly
 1 5 10 15
 Leu Ser Pro Trp Thr Gly Phe Tyr Phe Leu Gln Ser Leu Leu Ile Asn
 20 25 30
 Phe Ala Leu Gly Tyr Pro Phe Ser Leu Leu Tyr Ala Val Gly Phe Thr
 35 40 45
 Cys Ile Leu His Leu Leu Trp Arg Ser Ala Pro Arg Met Gln Lys Val
 50 55 60
 Leu Ile Gly Ile Cys Ser Leu Val Ala Ala Tyr Phe Pro Phe Gly
 65 70 75 80
 Gln Ala Tyr Gly Ala Pro Asn Phe Asn Thr Leu Leu Ala Leu His Ser
 85 90 95
 Thr Asn Met Glu Glu Ser Thr Glu Ile Leu Thr Ile Phe Pro Trp Tyr
 100 105 110
 Asn Tyr Val Val Gly Leu Phe Ile Phe Ala Leu Gly Val Ile Ala Val
 115 120 125
 Arg Arg Lys Pro Val Gly Lys Lys Ala Trp Gly Lys Ile Glu Ser Leu
 130 135 140
 Cys Leu Ala Phe Ser Val Val Thr Phe Phe Val Ala Pro Val Gln Asn
 145 150 155 160
 Met Ala Trp Gly Gly Val Phe Lys Leu Lys Asp Thr Gly Tyr Pro Val
 165 170 175
 Phe Arg Phe Val Lys Asp Val Val Val Asn Glu Glu Val Leu Asp
 180 185 190
 Glu Gln Ala Arg Met Ala Glu Leu Ser Thr Met Lys Asp Thr Trp Asn
 195 200 205
 Val Leu Ala Val Lys Pro Lys Tyr His Thr Tyr Val Val Val Ile Gly
 210 215 220
 Glu Ser Ala Arg Arg Asp Ala Leu Gly Ala Phe Gly Gly His Trp Asp
 225 230 235 240
 Asn Thr Pro Phe Ala Ser Ala Val Asn Gly Thr Leu Phe Thr Asp Tyr
 245 250 255
 Val Ala Ala Ser Gly Ser Thr Gln Lys Ser Leu Gly Leu Thr Leu Asn
 260 265 270
 Arg Val Val Asp Gly Lys Pro Gln Phe Gln Asp Asn Phe Val Thr Leu
 275 280 285
 Ala Asn Arg Ala Gly Phe Gln Thr Trp Trp Phe Ser Asn Gln Gly Gln
 290 295 300
 Ile Gly Glu Tyr Asp Thr Ala Ile Ala Ser Ile Lys Lys Arg Ala Asp
 305 310 315 320
 Glu Val His Phe Leu Phe Phe Xaa His Asp Ala Pro Asn Pro Arg Tyr
 325 330 335

<210> 7025

<211> 370

<212> PRT

<213> *Enterobacter cloacae*

<400> 7025

Met Asn Ile Pro Gly Leu Gln Ala Leu Lys Arg Asp Arg Phe Phe His
 1 5 10 15
 Leu Leu Leu Ile Thr Gly Val Gly Leu Ser Val Phe Val Pro Phe Thr
 20 25 30
 Pro His Thr Trp Pro Ala Ala Ile Asp Trp Arg Thr Ile Ile Thr Leu
 35 40 45
 Ser Gly Leu Met Met Leu Thr Lys Gly Val Glu Leu Ser Gly Tyr Phe
 50 55 60
 Asp Val Leu Gly Arg Lys Met Val Arg Arg Phe Ala Thr Glu Arg Lys
 65 70 75 80

Leu Ala Leu Phe Met Val Phe Ser Ala Ala Leu Leu Ser Thr Phe Leu
 85 90 95
 Thr Asn Asp Val Ala Leu Phe Ile Val Val Pro Leu Thr Leu Thr Leu
 100 105 110
 Arg Lys Leu Cys Glu Ile Pro Val Thr Arg Leu Ile Ile Glu Ala
 115 120 125
 Leu Ala Val Asn Ala Gly Ser Leu Leu Thr Pro Ile Gly Asn Pro Gln
 130 135 140
 Asn Ile Leu Leu Trp Gly Arg Ser Gly Leu Ser Phe Thr Ala Phe Thr
 145 150 155 160
 Gly Gln Met Ala Pro Leu Ala Leu Ala Ile Val Ala Ser Leu Leu Ala
 165 170 175
 Val Gly Trp Phe Ala Phe Pro Asn Lys Ser Leu Gln Tyr His Ser Gly
 180 185 190
 Thr Thr Gly Pro Gln Trp Gln Pro Arg Leu Val Trp Ser Cys Leu Gly
 195 200 205
 Leu Tyr Ile Val Phe Leu Ile Ala Leu Glu Leu Asn Gln Ala Leu Ala
 210 215 220
 Gly Ala Leu Leu Val Ala Cys Gly Phe Leu Phe Leu Ala Arg Arg Val
 225 230 235 240
 Leu Val Ser Val Asp Trp Thr Leu Leu Leu Val Phe Met Ala Met Phe
 245 250 255
 Ile Asp Val His Leu Leu Ile Gln Leu Pro Val Leu Gln Asn Val Leu
 260 265 270
 His Ser Val Gly Gly Leu Ser Gln Pro Gly Leu Trp Leu Thr Ala Ile
 275 280 285
 Gly Leu Ser Gln Val Ile Ser Asn Val Pro Ser Thr Ile Leu Leu Leu
 290 295 300
 Asn Tyr Val Pro Pro Thr Val Leu Leu Ala Trp Ala Val Asn Val Gly
 305 310 315 320
 Gly Phe Gly Leu Leu Pro Gly Ser Leu Ala Asn Leu Ile Ala Leu Arg
 325 330 335
 Met Ala Asn Asp Arg Arg Ile Trp Trp Arg Phe His Leu Trp Ser Ile
 340 345 350
 Pro Met Leu Leu Trp Ser Ala Ala Val Gly Phe Gly Leu Phe Leu Leu
 355 360 365
 Ile

370

<210> 7026

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 7026

Glu Arg Gly Glu Cys Arg Ser Thr Leu Met Ile His Arg Arg Leu His
 1 5 10 15
 Pro Leu Met Ile Met Met Leu Leu Val Gly Cys Ala Val Gly Pro Asp
 20 25 30
 Tyr Gln Gln Pro Ala Pro Pro Ala Thr Thr His Trp Asn Asp Lys Gly
 35 40 45
 Asp Ser Ala Val Lys Ser Gln Thr Ser Ser Ala Ala Thr Asn Pro Arg
 50 55 60
 Trp Trp Lys Thr Phe Gly Ser Pro Gln Leu Asp Ser Leu Ile Glu Arg
 65 70 75 80
 Ala Ile Ala Gly Asn Leu Thr Leu Gln Gln Thr Val Leu Arg Ile Ala
 85 90 95
 Gly Ala Arg Glu Gln Ile Asn Gln Ala Gly Gly Ala Phe Phe Pro Ser
 100 105 110
 Val Asn Gly Asn Val Gln Ala Thr Arg Gln Gln Leu Gly Leu Glu Gly
 115 120 125

Glu Leu Lys Ser His Gly Val Tyr Asp Gln Leu Asn Asn Val Asp Pro
 130 135 140
 Glu Leu Arg Gly Ala Leu Gly Pro Leu Thr Gln Pro Ile Asn Leu Tyr
 145 150 155 160
 Gln Gly Ser Phe Asp Ala Gln Trp Glu Ile Asp Leu Trp Gly Lys Val
 165 170 175
 Arg Arg Gln Val Glu Ala Ala Glu Ala Gln Arg Ala Ala Ile Glu
 180 185 190
 Gln Arg Asn Asp Val Leu Val Ser Leu Glu Ala Glu Val Ala Arg Ala
 195 200 205
 Trp Leu Gln Leu Arg Gly Ala Gln Ser Ile Ile Ala Thr Leu Asn Thr
 210 215 220
 Gln Ile Glu Ser Ala Gln Gln Thr Leu Asp Leu Thr Glu Ser Arg Gln
 225 230 235 240
 Arg Gly Gly Leu Ser Pro Gln Met Asp Val Glu Asn Ala Arg Ala Gln
 245 250 255
 Leu Gly Asn Leu Glu Ala Gln Leu Pro Gln Tyr Gln Ala Gln Glu Arg
 260 265 270
 Gln Ala Met Asn Gly Leu Ala Ile Leu Leu Gly Lys Pro Pro Gly Ala
 275 280 285
 Leu Asp Ala Glu Leu Gln Ser Val Gln Pro Met Pro Ala Leu Pro Asp
 290 295 300
 Ile Val Gln Thr Gly Ile Pro Ser Thr Leu Ala Arg Arg Pro Asp
 305 310 315 320
 Val Arg Glu Ala Glu Ala Asn Leu His Ala Ala Thr Ala Gln Ile Gly
 325 330 335
 Val Ser Val Ala Glu Leu Phe Pro Ser Phe Thr Leu Ser Gly Gln Phe
 340 345 350
 Gly Leu Arg Asn Ser Glu Ser Asn Trp Leu Thr Asp Trp Ser Ser His
 355 360 365
 Phe Tyr Ser Phe Gly Pro Gln Val Ser Ile Pro Ile Phe Gln Gly Gly
 370 375 380
 Arg Leu Val Ser Ser Val Lys Val Ala Arg Ala Gln Gln Gly Ala Ala
 385 390 395 400
 Val Leu Asp Tyr Arg Gln Thr Val Leu Thr Ala Leu Gly Asp Val Glu
 405 410 415
 Asn Ala Leu Val Ser Tyr Arg Thr Asp Gln Gln Arg Glu Ala Gly Leu
 420 425 430
 Ala Lys Thr Ile Asp Ala Leu Gln Asn Ala Phe Asp Leu Ala Ser Asp
 435 440 445
 Ser Tyr Arg Gln Gly Ile Ala Ser Phe Ile Asp Val Leu Asp Ala Gln
 450 455 460
 Arg Gln Leu Ala Gln Ala Glu Gln Gln Arg Ala Gln Ala Gln Val Gln
 465 470 475 480
 Ser Ala Leu Asp Leu Val Ala Leu Tyr Lys Ala Leu Gly Gly Gly Trp
 485 490 495
 Glu Pro Tyr Gln Gln Val Arg Leu Pro Asp Tyr Ser Val Phe Gly Asp
 500 505 510
 Ala Pro Arg Gly
 515

<210> 7027

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 7027

Gly Arg Thr Met Ala Ala Lys Tyr Ile Thr Ile Ala Arg Glu Ile Lys
 1 5 10 15
 Lys Arg Ile Ile Ser Gln Gln Tyr Ala Ala Asn Glu Pro Leu Pro Asp
 20 25 30

Gln Phe Ala Leu Ala Ala Glu Phe Ser Thr Ser Arg Met Thr Ile Gln
 35 40 45
 Gln Ala Met Arg Gln Leu Ile Val Glu Gly Leu Val Tyr Thr Arg Gln
 50 55 60
 Gly Gln Gly Thr Phe Ile Arg Lys Asn Phe Leu Gln Leu Ser Gln Trp
 65 70 75 80
 Asp Leu Ser Gly Ser Asp Tyr Phe Gly Ala Thr Lys Thr Trp Glu His
 85 90 95
 Leu Gly Thr Val Ser Ser Gln Val Val His Phe Glu Leu Arg Phe Pro
 100 105 110
 Asn Glu Lys Glu Gln Ala Ser Leu Met Ile Asn Pro Asp Thr Pro Ile
 115 120 125
 Tyr Asp Phe Ile Arg Leu Arg Leu Leu Asn Gly Glu Pro Met Ser Leu
 130 135 140
 Asp Ala Thr Val Met Pro Leu Asn Leu Val Pro Gly Leu Asn Lys Thr
 145 150 155 160
 His Leu Glu Ser Ser Val Phe Arg Tyr Val Gln Glu Thr Leu Gly Leu
 165 170 175
 Lys Ile Met Gly Ser Tyr Arg Val Val Arg Ala Leu Lys Pro Ser Ala
 180 185 190
 Leu Asp Met Gln His Leu Val Cys Glu Pro Thr Asp Ser Val Leu Glu
 195 200 205
 Val Glu Gln Val Ile Tyr Leu Glu Asp Gly Thr Pro Leu Glu Tyr Ala
 210 215 220
 His Cys His Tyr Arg Tyr Asp His Gly Gly Ile Val Ile Val Asn Asn
 225 230 235 240
 Gly

<210> 7028

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 7028

Gly Ser Thr Met Asn Arg Arg Ala Gly Lys Pro Thr Thr Lys Lys Thr
 1 5 10 15
 Thr Gln Leu Val Asn Val Glu Glu His Val Glu Gly Phe Arg Gln Val
 20 25 30
 Arg Glu Ala His Arg Arg Glu Leu Ile Asp Asp Tyr Val Glu Leu Ile
 35 40 45
 Ser Asp Leu Ile Arg Glu Val Gly Glu Ala Arg Gln Val Asp Met Ala
 50 55 60
 Ala Arg Leu Gly Val Ser Gln Pro Thr Val Ala Lys Met Leu Lys Arg
 65 70 75 80
 Leu Ala Ser Val Gly Leu Ile Glu Met Ile Pro Trp Arg Gly Val Phe
 85 90 95
 Leu Thr Ala Glu Gly Glu Lys Leu Ala Gln Glu Ser Arg Glu Arg His
 100 105 110
 Gln Ile Val Glu Asn Phe Leu Leu Val Leu Gly Val Ser Pro Glu Ile
 115 120 125
 Ala Arg Arg Asp Ala Glu Gly Met Glu His His Val Ser Glu Glu Thr
 130 135 140
 Leu Val Lys Phe Arg Glu Phe Thr Leu Lys Tyr Gly Pro Ser Ala Glu
 145 150 155 160

<210> 7029

<211> 530

<212> PRT

<213> Enterobacter cloacae

<400> 7029

Thr Glu Gly His Arg Gly Met Thr Asp His Ser His Asp Asn Trp Lys
 1 5 10 15
 Pro Ala Ser Asn Pro Trp Ala Val Ala Ile Val Val Thr Leu Ala Val
 20 25 30
 Phe Met Glu Ile Leu Asp Thr Thr Ile Val Asn Val Ala Leu Pro His
 35 40 45
 Val Ala Gly Ser Leu Ser Ala Ser Tyr Asp Glu Ser Thr Trp Val Leu
 50 55 60
 Thr Ser Tyr Leu Val Ala Asn Gly Ile Val Leu Pro Ile Ser Ala Phe
 65 70 75 80
 Leu Ser Arg Leu Phe Gly Arg Lys Gln Phe Phe Leu Ile Cys Ile Val
 85 90 95
 Met Phe Thr Ile Cys Ser Phe Leu Cys Gly Ile Ala Thr Glu Leu Trp
 100 105 110
 Gln Ile Ile Leu Phe Arg Val Met Gln Gly Phe Phe Gly Gly Leu
 115 120 125
 Gln Pro Thr Gln Gln Ser Val Leu Leu Asp Tyr Phe Lys Pro Glu Asp
 130 135 140
 Arg Gly Lys Ala Phe Gly Leu Ser Ser Ile Ala Ile Ile Val Ala Pro
 145 150 155 160
 Val Leu Gly Pro Thr Leu Gly Gly Trp Ile Thr Asp Asn Tyr Ser Trp
 165 170 175
 Arg Trp Val Phe Phe Ile Asn Ile Pro Val Gly Ile Val Thr Val Leu
 180 185 190
 Ala Ile Tyr Gln Leu Leu Glu Asp Pro Pro Trp Glu Lys Lys Ser Glu
 195 200 205
 Glu Lys Leu Thr Val Asp Trp Thr Gly Ile Gly Leu Ile Ala Leu Gly
 210 215 220
 Leu Gly Cys Leu Gln Val Met Leu Asp Arg Gly Glu Asp Asp Asp Trp
 225 230 235 240
 Phe Tyr Ser Asn Phe Ile Arg Thr Phe Ala Val Leu Thr Leu Val Gly
 245 250 255
 Ile Ile Gly Ala Ile Tyr Trp Leu Met Tyr Ala Arg Lys Pro Val Val
 260 265 270
 Asp Leu His Cys Met Lys Asp Arg Asn Phe Ala Ile Ser Ser Leu Leu
 275 280 285
 Met Ala Gly Met Ala Met Ile Leu Tyr Gly Ser Ser Val Val Ile Pro
 290 295 300
 Gln Leu Ala Gln Gln Asp Leu Gly Tyr Thr Ala Thr Trp Ser Gly Leu
 305 310 315 320
 Val Leu Ser Pro Gly Ala Val Leu Ile Val Leu Thr Ile Pro Leu Val
 325 330 335
 Leu Lys Leu Met Pro Val Val Gln Thr Arg Trp Ile Ile Ala Phe Gly
 340 345 350
 Phe Thr Cys Leu Ala Val Ser Phe Phe Trp Ser Arg Thr Leu Thr Pro
 355 360 365
 Asp Ile Asp Phe Glu Thr Leu Val Leu Phe Arg Ser Ala Gln Ser Ile
 370 375 380
 Gly Leu Gly Phe Leu Phe Val Pro Leu Thr Thr Ile Ala Phe Ile Ser
 385 390 395 400
 Ile Pro Arg Arg Leu Asn Ala Asp Ala Ala Leu Phe Thr Met Phe
 405 410 415
 Arg Asn Val Ala Gly Ser Ile Gly Ile Ser Leu Ser Thr Ala Ala Ile
 420 425 430
 Thr Glu Arg Ser Gln Ala His Ser Ala His Leu Ala Tyr His Ala Ser
 435 440 445
 Pro Phe Asn Glu Gln Phe Gln Leu Ala Ile Arg Glu Ser Ala Gln Ala
 450 455 460

Ile Gln Asn Phe Thr Thr Gln Val Gly Asp Pro Thr Gly Ile Ala Thr
 465 470 475 480
 Gly Arg Met Tyr Gln Thr Met Ile Glu Ser Arg Phe Leu Ala Tyr
 485 490 495
 Ile Asp Val Phe Thr Ile Leu Ser Ala Val Ala Leu Leu Leu Ile Pro
 500 505 510
 Phe Cys Leu Leu Leu Ser Pro Val Lys Ser Glu Gly Ser Ala Gly Ala
 515 520 525

His

530

<210> 7030

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7030

Leu Val Ile Lys Gly Ala Thr Met Asn Lys Ser Leu Pro Ala Asn Phe
 1 5 10 15
 Leu Trp Gly Asn Ser Val Ser Ser Met Gln Thr Glu Gly Ala Trp Asn
 20 25 30
 Glu Gly Gly Lys Gly Met Ser Val Tyr Asp Ile Arg Glu Ala Gly Glu
 35 40 45
 Asn Ile Ser Asp Trp Lys Val Ala Thr Asp Ser Tyr His Arg Tyr Arg
 50 55 60
 Glu Asp Phe Asp Leu Met Gln Asp Leu Gly Met Asn Cys Tyr Arg Phe
 65 70 75 80
 Gln Ile Ser Trp Ser Arg Ile Cys Pro Gln Gly Asp Gly Glu Phe Asn
 85 90 95
 Asp Glu Gly Ile Ala Phe Tyr Asp Arg Phe Ile Asp Asp Leu Leu Ala
 100 105 110
 Arg Gly Ile Glu Pro Met Val Cys Leu Tyr His Phe Asp Met Pro Leu
 115 120 125
 Ala Leu Ala Gln Glu Tyr Asn Gly Phe Ile Asp Arg Arg Val Val Asp
 130 135 140
 Ala Phe Ile Arg Tyr Gly Lys Lys Met Ile Asp Cys Phe Ala Asp Arg
 145 150 155 160
 Val Lys Tyr Trp Leu Thr Phe Asn Glu Gln Asn Ile Phe His Met Pro
 165 170 175
 Glu Ala Phe Arg Ile Ser Gly Tyr Met Lys Gly Glu Gln Thr Leu Arg
 180 185 190
 Glu Leu Tyr Glu Leu Gln His His Ala Met Val Ala His Met Thr Leu
 195 200 205
 Thr Glu Tyr Leu His Gln Thr Lys Pro Gly Lys Leu Met Gly Gly Met
 210 215 220
 Leu Ala His Gln Leu Ile Tyr Pro Ala Thr Cys Lys Pro Arg Asp Ile
 225 230 235 240
 Phe Cys Ala Gln Gln Tyr Asp Glu Phe Leu Asn Gln Asn Leu Leu Arg
 245 250 255
 Val Phe Ala Gly Gln Gly Tyr Ser Pro Ala Val Met Ala Val Val Glu
 260 265 270
 Gln Glu Gly Phe Gly Asp Ile Tyr Arg Ala Asp Asp Leu Ala Leu Phe
 275 280 285
 Ala Arg Thr Lys Asn Asp Phe Met Ala Phe Ser Tyr Tyr Ala Ser Lys
 290 295 300
 Thr Leu Asp Ser Asp Ala Ile Pro Glu Gly Thr Pro Val Asn Tyr Tyr
 305 310 315 320
 Leu Leu His Gly Glu Lys Asn Asn Pro Tyr Leu Lys Ala Thr Glu Trp
 325 330 335
 Asn Trp Gln Ile Asp Pro Leu Gly Phe Arg Thr Ile Ile Thr Arg Tyr
 340 345 350

Ala Asn Asp Trp Arg Met Pro Val Phe Pro Ile Glu Asn Gly Ile Gly
 355 360 365
 Val Ile Glu Ser Trp Asp Gly Val Asn Pro Val Glu Asp Thr Tyr Arg
 370 375 380
 Ile Asp Tyr His Arg Ala His Ile Glu Ala Met Lys Ala Ala Ile Phe
 385 390 395 400
 Glu Asp Gly Ala Glu Val Met Gly Tyr Leu Gly Trp Gly Leu Ile Asp
 405 410 415
 Ile Leu Ser Ser Gln Gly Asp Met Arg Lys Arg Tyr Gly Val Val Tyr
 420 425 430
 Val Asn Arg Glu Asn His Asp Leu Lys Asp Leu Lys Arg Val Pro Lys
 435 440 445
 Lys Ser Tyr Ala Trp Leu Lys Gln Val Ile His Thr Asn Gly Arg Glu
 450 455 460
 Met
 465

<210> 7031

<211> 446

<212> PRT

<213> Enterobacter cloacae

<400> 7031

Trp Glu His Ser Ala Met Ser Glu Thr Lys Ile Thr Pro His Met Gln
 1 5 10 15
 Ser Phe Val Asp Lys Phe Val Glu Phe Ser Ala Arg Leu Ala Asn Gln
 20 25 30
 Val His Leu Arg Ser Leu Arg Asp Ala Phe Ala Thr Val Met Pro Ile
 35 40 45
 Phe Ile Leu Ala Gly Leu Ala Val Leu Val Asn Asn Val Val Phe Pro
 50 55 60
 Trp Ile Phe Ala Gly Asp Thr Leu Thr His Phe Lys Val Trp Gly Glu
 65 70 75 80
 Ala Ile Ile Asn Gly Thr Leu Asn Ile Ala Ala Leu Leu Leu Ala Pro
 85 90 95
 Met Ile Ala Trp Ser Leu Ala Arg Asn Lys Asp Phe Asp Asn Pro Val
 100 105 110
 Ser Ala Val Val Ile Ala Val Ser Ser Phe Ile Ile Met Met Pro Met
 115 120 125
 Arg Leu Gln Ile Thr Pro Val Gly Ser Glu Ala Thr Val Asn Ala Thr
 130 135 140
 Gln Val Leu Thr Phe Ala Asn Ile Gly Ser Thr Gly Ile Phe Ala Gly
 145 150 155 160
 Val Leu Ile Gly Leu Leu Ser Thr Glu Val Phe Ile Ala Ile Ser Arg
 165 170 175
 Leu Lys Ala Leu His Ile Ser Leu Gly Glu Asn Val Pro Pro Ala Val
 180 185 190
 Ser Lys Ser Phe Thr Ala Leu Ile Pro Thr Ile Leu Thr Leu Ser Leu
 195 200 205
 Phe Ala Val Leu Ala Ala Ile Leu Ala Asn Val Leu His Thr Asp Leu
 210 215 220
 Ile His Leu Ile Thr Thr Phe Ile Gln Gln Pro Leu Arg Leu Ile Asn
 225 230 235 240
 Thr Ser Leu Pro Gly Thr Ile Phe Ile Tyr Ser Phe Gly Asn Phe Leu
 245 250 255
 Phe Thr Leu Gly Ile His Gln Ser Val Val Asn Ser Val Val Leu Glu
 260 265 270
 Pro Phe Leu Leu Ile Asn Thr Asn Glu Asn Met Leu Ala Phe Ala Asn
 275 280 285
 Gly Gln Pro Ile Pro His Ile Ile Asn Asn Ile Phe Val Pro Thr Phe
 290 295 300

Gly Met Val Gly Gly Thr Gly Ser Thr Ile Ser Leu Leu Ile Ala Ile
 305 310 315 320
 Phe Ile Phe Ser Arg Gln Lys Ser Ala Lys Gln Val Ala Arg Leu Ser
 325 330 335
 Leu Ala Pro Gly Leu Phe Asn Ile Asn Glu Pro Val Ile Phe Gly Leu
 340 345 350
 Pro Ile Val Phe Asn Leu Pro Leu Met Ile Pro Phe Val Leu Leu Pro
 355 360 365
 Ala Ile Gly Ile Tyr Phe Ala Trp Leu Cys Thr Thr Leu Gly Phe Met
 370 375 380
 Ser Arg Cys Val Val Met Ile Pro Trp Thr Thr Pro Pro Ile Leu Ser
 385 390 395 400
 Ala Trp Leu Ala Thr Ala Gly Asp Trp Arg Ala Val Val Val Gln Leu
 405 410 415
 Ala Ile Ile Val Phe Gly Val Phe Phe Tyr Leu Pro Phe Leu Lys Val
 420 425 430
 Ala Glu Arg Val Ala Leu Lys Asn Ser Gly Thr Glu His
 435 440 445

<210> 7032

<211> 366

<212> PRT

<213> Enterobacter cloacae

<400> 7032

Thr Met Ala Glu Asp Gln Asn Pro Pro Ala Asp Glu Gln Asp Gln Asn
 1 5 10 15
 Asn Asn Glu Arg Lys Arg Pro Gly Lys Lys Pro Leu Ile Ile Leu Gly
 20 25 30
 Ile Val Val Ile Val Met Val Ile Val Ala Leu Val Trp Trp Phe Leu
 35 40 45
 Thr Arg Asn Glu Glu Thr Thr Asp Asp Ala Phe Thr Asp Gly Asp Val
 50 55 60
 Val Thr Ile Ala Pro Lys Thr Ala Gly Tyr Val Thr Glu Leu Arg Val
 65 70 75 80
 Arg Asp Asn Gln Arg Val Lys Lys Gly Asp Val Leu Val Val Ile Asp
 85 90 95
 Pro Arg Asp Thr Thr Ala Gln Arg Asp Gln Ala Gln Ala Gln Leu Gly
 100 105 110
 Leu Ala Leu Ala Gln Leu His Gln Ala Gln Ala Gln Leu Ala Leu Ser
 115 120 125
 Lys Val Gln Tyr Pro Ala Gln Arg Asp Glu Ala Lys Ala Gln Val Leu
 130 135 140
 Lys Ala Gln Ala Asp Met Ala Asn Ala Gln Ala Glu Tyr Arg Arg Gln
 145 150 155 160
 Arg Gly Val Asp Pro Arg Ala Thr Thr Gln Gln Ser Ile Asp Ala Ala
 165 170 175
 Asn Ala Gln Leu Arg Ser Ala Gln Ala Gly Leu Ala Ser Ala Gln Ala
 180 185 190
 Gln Leu Glu Val Ala Glu Gln Val Gln Leu Gln Ile Arg Gln Gln Glu
 195 200 205
 Thr Asn Val Glu Ala Arg Glu Arg Gln Val Asp Gln Ala Arg Ala Gln
 210 215 220
 Leu Glu Thr Ala Asn Leu Asn Leu Ser Tyr Thr Glu Val Arg Ala Pro
 225 230 235 240
 Phe Asp Gly Phe Val Thr Lys Arg Asn Val Gln Pro Gly Thr Leu Val
 245 250 255
 Gln Ala Gly Thr Ala Leu Phe Ser Leu Val Ser Pro Asn Val Trp Val
 260 265 270
 Val Ala Asn Phe Lys Glu Ser Gln Leu Glu Arg Met Lys Pro Gly Asp
 275 280 285

Lys Val Thr Val Ser Val Asp Ala Trp Pro Asp Met Glu Leu Glu Gly
 290 295 300
 His Ile Asp Ser Ile Gln Gln Gly Ser Gly Ser Arg Phe Ser Ala Phe
 305 310 315 320
 Pro Ser Glu Asn Ala Thr Gly Asn Phe Val Lys Ile Val Gln Arg Val
 325 330 335
 Pro Val Lys Ile Val Ile Asp Lys Gly Leu Asp Pro Asn Lys Pro Leu
 340 345 350
 Pro Leu Gly Leu Ser Val Glu Pro Lys Val Thr Val Glu
 355 360 365

<210> 7033

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 7033

Gly Val Ser Cys Ala Asp Ala Ser Thr Ser Lys Asn Gln Asn Phe Ala
 1 5 10 15
 Thr Phe Ile Glu Arg Leu Phe Arg Asp Asn Thr Met Thr Lys Tyr Arg
 20 25 30
 Leu Ser Asn Glu Thr Arg Leu Trp Arg Trp Gln Asp Gly Ser Thr Pro
 35 40 45
 Cys Thr Thr Pro Leu Arg Gln Ile Ile Ala Val Lys Asp Phe Asn Asp
 50 55 60
 Val Thr Ser Gly Thr Lys Gly Gly Trp Val Glu Asp Glu His Ala Leu
 65 70 75 80
 Ala Gln Asp Gly Asp Cys Trp Val Tyr Asp Glu Asn Ser Val Val Phe
 85 90 95
 Ala Gly Ala Arg Ile Ser Gly Asn Ala Arg Leu Thr Gln Pro Cys Ile
 100 105 110
 Val Ser His Arg Ala His Val Gly Gly Asn Gly Trp Leu Asp Ala Ala
 115 120 125
 Glu Val Ser His Gly Ala Val Ile Ser Asp Asn Val Thr Ile Gln His
 130 135 140
 Ser Thr Val Arg Gly Glu Cys Arg Ile Ala Gly Asp Ala Arg Val Leu
 145 150 155 160
 His Asn Ser Leu Val Ile Ala Ala Lys Gly Leu Thr Pro Asp Arg Glu
 165 170 175
 Gln Ile Leu Gln Ile Tyr Asp Arg Ala Thr Val Ser Gln Ser Arg Ile
 180 185 190
 Val His Gln Ala Gln Ile Tyr Gly Asp Ala Met Val Thr Trp Ala Phe
 195 200 205
 Val Glu His Arg Ala Glu Val Phe Asp Arg Ala Ile Leu Glu Gly Asn
 210 215 220
 Ala Leu Asn Asn Val Trp Val Cys Asp Cys Ala Lys Val Tyr Gly Asn
 225 230 235 240
 Ala Arg Leu Leu Ala Gly Leu Glu Asp Asp Ala Ile Pro Thr Val Arg
 245 250 255
 Tyr Ser Ser Gln Val Ala Glu Asn Ala Leu Val Glu Gly Asn Cys Val
 260 265 270
 Ile Lys His His Val Leu Ile Gly Gly Glu Ala Trp Leu Arg Gly Gly
 275 280 285
 Pro Ile Leu Ile Asp Asp Lys Val Val Ile Gln Gly Arg Ala Arg Ile
 290 295 300
 Ser Gly Asp Val Leu Ile Glu His Gln Val Glu Ile Thr Asp Asp Ala
 305 310 315 320
 Val Ile Glu Ala Leu Glu Gly Glu Ser Ile His Val Arg Gly Ala Lys
 325 330 335
 Val Ile Asn Gly Asp Thr Arg Ile Thr Arg Thr Pro Leu Leu Gly Ala
 340 345 350

Leu

<210> 7034

<211> 418

<212> PRT

<213> Enterobacter cloacae

<400> 7034

Lys Ile Asn Thr Glu Gly Asn Thr Met Gly Ser Glu Leu Ser Arg Gln
 1 5 10 15
 Leu Thr Gln Arg Phe Phe Arg Tyr Leu Ala Ile Thr Ser Gln Ser Asp
 20 25 30
 Pro Lys Val Lys Thr Leu Pro Ser Thr Pro Gly Gln His Asp Met Ala
 35 40 45
 Arg Glu Leu Ala Lys Glu Leu Lys Thr Leu Gly Leu Asp Asp Ile Val
 50 55 60
 Ile Asp Glu Phe Ala Thr Val Thr Ala Val Lys Lys Gly Asn Val Pro
 65 70 75 80
 Gly Ala Pro Arg Ile Gly Phe Ile Thr His Ile Asp Thr Val Asp Val
 85 90 95
 Gly Leu Ser Pro Asp Ile His Pro Gln Ile Leu Thr Phe Thr Gly Asp
 100 105 110
 Asp Leu Cys Leu Asn Lys Glu Lys Asp Ile Trp Leu Arg Val Lys Glu
 115 120 125
 His Pro Glu Ile Leu Ala Tyr Pro Asp Glu Glu Ile Ile Phe Ser Asp
 130 135 140
 Gly Thr Ser Val Leu Gly Ala Asp Asn Lys Ala Ala Val Thr Val Val
 145 150 155 160
 Met Thr Val Leu Glu Asn Leu Thr Ala Glu His Asn His Gly Asp Ile
 165 170 175
 Val Val Ala Phe Val Pro Asp Glu Glu Ile Gly Leu Cys Gly Ala Lys
 180 185 190
 Ala Leu Asp Leu Lys Arg Phe Asp Val Asp Phe Ala Trp Thr Ile Asp
 195 200 205
 Cys Cys Glu Leu Gly Glu Ile Val Tyr Glu Asn Phe Asn Ala Ala Ala
 210 215 220
 Ala Glu Ile Arg Phe Thr Gly Val Thr Ala His Pro Met Ser Ala Lys
 225 230 235 240
 Gly Val Leu Val Asn Pro Leu Leu Met Ala Thr Asp Phe Ile Ser His
 245 250 255
 Phe Asp Arg Gln Gln Thr Pro Glu Cys Thr Glu Gly Arg Glu Gly Tyr
 260 265 270
 Ile Trp Phe Asn Gly Ile Gln Ala Gly Gln Asn Glu Ala Ile Leu Lys
 275 280 285
 Ala Asn Ile Arg Asp Phe Asp Lys Asp Gly Phe Ala Ala Arg Lys Gln
 290 295 300
 His Ile Ala Asp Val Ala Ala Gln Ile Ala Ala Gln His Pro Thr Ala
 305 310 315 320
 Asn Val Glu Tyr Arg Ile Glu Asp Thr Tyr Ser Asn Ile Ser Asn Ala
 325 330 335
 Ile Gly Glu Asp Arg Arg Ala Ile Asp Leu Met Phe Glu Ala Met Glu
 340 345 350
 Ser Leu Gly Ile Thr Pro Lys Pro Ile Pro Met Arg Gly Gly Thr Asp
 355 360 365
 Gly Ala Ala Leu Ser Ala Lys Gly Leu Leu Thr Pro Asn Phe Phe Thr
 370 375 380
 Gly Ala His Asn Phe His Ser Lys Phe Glu Phe Leu Pro Leu Ser Ser
 385 390 395 400
 Phe Glu Ala Ser Cys Arg Thr Ala Leu Gln Leu Cys Leu Leu Ala Ala
 405 410 415

Arg

<210> 7035

<211> 282

<212> PRT

<213> *Enterobacter cloacae*

<400> 7035

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Asp Met Ser Arg Arg Ser Phe Pro Leu Asn Ala Val Glu Thr Phe Ile
1      5      10      15
Val Thr Ala Arg His Leu Asn Leu Thr His Ala Ala Lys Glu Leu Cys
20      25      30
Leu Thr Gln Gly Ala Val Ser Arg Lys Ile Ala Ser Leu Glu Ser Trp
35      40      45
Phe Gly Phe Pro Leu Phe Glu Arg His Ala Arg Gly Leu Arg Leu Ser
50      55      60
Ser Gln Gly Ser Ala Leu Leu Pro Glu Leu Gln Ser Ala Phe Glu His
65      70      75      80
Leu Leu Asn Val Ala Glu Gln Ala Arg Thr His Gln Thr Val Ile Arg
85      90      95
Leu Lys Ala Pro Thr Cys Ala Met Arg Trp Leu Val Pro Arg Leu Leu
100     105     110
Gln Val Glu Arg Glu Gln Pro Glu Leu Gln Ile Ala Leu Thr Thr Thr
115     120     125
Thr Asp His Asn Val Asn Phe Lys Thr Glu Ser Cys Asp Ala Ala Ile
130     135     140
Val Phe Gly Thr His Met Ser Ala Gly Asp Leu Leu Phe Glu Glu Ala
145     150     155     160
Leu Thr Pro Val Met Ser Pro Leu Arg Ala Gly Ser Ala Leu Glu Ala
165     170     175
Leu Thr Phe Leu His Pro Thr Arg Asp Lys Thr Asp Trp Thr Leu Trp
180     185     190
Leu Ala Lys Gln Pro Gly Pro Pro Pro Ala Met Leu Lys Asn Gln His
195     200     205
Phe Glu Thr Met Asp Leu Ala Ile Thr Ala Ala Ile Gln Gly Leu Gly
210     215     220
Ile Ala Ile Ala Asp Glu Thr Leu Val Glu Glu Asp Val Arg Ala Gly
225     230     235     240
Arg Leu Met Arg Pro Phe Asp Thr Ser Ile Lys Thr Gly Ala Ser Tyr
245     250     255
Arg Leu Val Leu Arg Asp Ala Pro Gly Pro Glu Asn Gly Leu Asp Ala
260     265     270
Phe Arg Ala Cys Leu Leu Ser Arg Gly
275     280

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<210> 7036

<211> 508

<212> PRT

<213> *Enterobacter cloacae*

<400> 7036

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Trp Lys Lys Lys Val Gly Met Glu Asn Pro Ser Ala Pro Val Val Glu
1      5      10      15
Thr Arg Gln Gly Ala Leu Ile Gly Phe Thr Glu Gly Asp Thr His Val
20      25      30
Trp Cys Gly Ile Pro Tyr Ala Ala Pro Pro Val Gly Pro Trp Arg Trp
35      40      45
Arg Ser Pro Arg Pro Pro Ala Arg Trp Asp Gly Val Arg Pro Ala Thr
50      55      60
Ala Phe Ser Ala Ser Ser Trp Gln Ser Ser Glu Ser Cys Gln Glu Leu

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65 70 75 80
 Gly Gly Gly Asp Pro Gly Gln Phe Ser Glu Asp Cys Leu Tyr Leu Asn
 85 90 95
 Val Trp Ser Pro Val Ala Arg Ala Ala Pro Leu Pro Val Met Val Trp
 100 105 110
 Leu His Gly Gly Gly Phe Thr Leu Gly Ala Gly Gly Leu Pro Pro Tyr
 115 120 125
 Asn Gly Arg Ala Leu Ala Lys Arg Gly Thr Val Val Val Thr Ile Asn
 130 135 140
 Tyr Arg Leu Gly His Leu Gly Phe Phe Ala His Pro Ala Leu Glu Gly
 145 150 155 160
 Glu Glu Glu Arg Val Val His Asn Phe Ala Leu Leu Asp Gln Ile Gln
 165 170 175
 Ala Leu Glu Trp Val Arg Asp Asn Ile Ala Ala Phe Gly Gly Asp Pro
 180 185 190
 Glu Asn Ile Thr Val Phe Gly Glu Ser Ala Gly Ala Arg Ser Val Leu
 195 200 205
 Ser Leu Met Ala Ser Pro Leu Ala Gly Gly Leu Phe His Lys Ala Ile
 210 215 220
 Val Gln Ser Gly Tyr Thr Leu Pro Asp Thr Pro Arg Glu Gln Ala Met
 225 230 235 240
 His Lys Gly Glu Ala Ile Ala Ala His Phe Gly Leu His Asn Ala Thr
 245 250 255
 Ala Glu Gln Leu Arg Ala Ile Pro Pro Glu Ala Phe Trp Pro Thr Thr
 260 265 270
 Ser Pro Leu Asn Ile Ala Pro Ala Pro Ile Val Gly Asp Cys Val Leu
 275 280 285
 Pro Glu Ala Met Leu Asp Val Phe Phe Ala Ala Arg Gln His Pro Val
 290 295 300
 Pro Val Met Ile Gly Ser Asn Ser Asp Glu Ala Ser Val Met Ser Val
 305 310 315 320
 Phe Gly Val Asp Leu Ala Gly Gln Ile Gln Lys Leu Arg Arg Glu Arg
 325 330 335
 Arg Phe Gly Leu Gly Leu Ile Lys Leu Leu Tyr Pro Gly Val Lys Gly
 340 345 350
 Asp Glu Glu Leu Gly Arg Gln Val Cys Arg Asp Met Ala Phe Thr Thr
 355 360 365
 Met Gly Tyr Val Val Met Gln Ala Gln Arg Ala Gly Gly Leu Cys
 370 375 380
 Trp Arg Tyr Trp Phe Asp Tyr Val Ala Glu Ala Glu His Ala Thr Tyr
 385 390 395 400
 Ile Asn Gly Ala Trp His Gly Asn Glu Val Pro Tyr Val Phe Asp Thr
 405 410 415
 Leu Gly Gln Val Glu Pro Ser Arg Gln Tyr Val Asn Glu Arg Asp Leu
 420 425 430
 Ala Phe Ala Ala Gln Val Ala Asp Tyr Trp Val Ser Phe Ala Arg Asp
 435 440 445
 Ala Gly Ala Arg Asp Ser Leu Ala Gly Pro Thr Arg Trp Pro Ala Cys
 450 455 460
 Arg Lys Gly Arg Asp Val Leu Leu Arg Ile Gly Val Asn Lys His Ala
 465 470 475 480
 Gly Phe Arg Leu Glu Asn Arg Phe Met Arg Ala Arg Met Ser Leu Phe
 485 490 495
 Lys Arg Val Met Lys His His Val Ser Leu Asp
 500 505

<210> 7037

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 7037

Leu Cys Ile His His Glu Lys Gly Gln Arg Met Thr Leu Lys Thr Pro
 1 5 10 15
 Val Gln Thr Arg Ser Lys Leu Pro Asp Val Gly Thr Thr Ile Phe Thr
 20 25 30
 Val Ile Gly Gln Leu Ser Ala Arg His Asn Ala Ile Asn Leu Ser Gln
 35 40 45
 Gly Ala Pro Asn Phe Ser Cys Asp Pro Lys Leu Ile Ser Gly Val Thr
 50 55 60
 Arg Ala Met Glu Ala Gly Tyr Asn Gln Tyr Ala Ser Met Thr Gly Leu
 65 70 75 80
 Gln Pro Leu Arg Glu Arg Ile Ala Asp Lys Ile Ala Thr Leu Tyr Gly
 85 90 95
 Thr His Tyr Asp Pro Ala Ser Glu Val Leu Val Thr Ala Ser Ala Ser
 100 105 110
 Glu Gly Leu Tyr Ser Ala Ile Ser Gly Leu Val His Pro Gly Asp Glu
 115 120 125
 Val Ile Tyr Phe Glu Pro Ser Phe Asp Ser Tyr Ala Pro Ile Val Arg
 130 135 140
 Leu Gln Gly Ala Thr Pro Ile Ala Ile Lys Leu Thr Val Pro Asp Phe
 145 150 155 160
 Ala Val Asn Trp Asp Glu Val Arg Ala Ala Ile Thr Pro Arg Thr Arg
 165 170 175
 Met Ile Ile Val Asn Thr Pro His Asn Pro Ser Gly Gln Val Phe Ser
 180 185 190
 Ala Ala Asp Leu His Gln Leu Ala Ala Leu Thr Arg His Thr Asp Ile
 195 200 205
 Ile Ile Leu Ser Asp Glu Val Tyr Glu His Val Val Phe Asp Gly Glu
 210 215 220
 Pro His His Gly Met Ala Thr His Pro Gln Leu Ala Glu Arg Ser Val
 225 230 235 240
 Ile Ile Ser Ser Phe Gly Lys Thr Tyr His Val Thr Gly Trp Arg Val
 245 250 255
 Gly Tyr Cys Val Ala Pro Ala Glu Leu Met Asp Glu Ile Cys Lys Val
 260 265 270
 His Gln Phe Leu Met Phe Ser Ala Asp Thr Pro Met Gln Tyr Ala Phe
 275 280 285
 Ala Glu His Met Thr Asp Pro Gln Thr Trp Leu Ser Leu Ala Ala Phe
 290 295 300
 Tyr Gln Arg Lys Arg Asp Leu Leu Gln Ser Leu Leu Ala Asp Ser Pro
 305 310 315 320
 Phe Arg Leu Leu Pro Ser Ala Gly Ser Phe Phe Leu Leu Ala Asp Tyr
 325 330 335
 Ser Gly Phe Ser Asp Glu Arg Asp Ser Glu Met Val Lys Arg Leu Ile
 340 345 350
 Val Glu Tyr Gly Val Ala Thr Ile Pro Leu Ser Ala Phe Tyr Ala Asp
 355 360 365
 Gly Thr Asp Asn Lys Leu Ile Arg Leu Ser Phe Ala Lys Asp Glu Ala
 370 375 380
 Thr Leu Arg Ala Gly Ala Gln Ala Leu Cys Arg Val Thr Pro Arg
 385 390 395 400

<210> 7038

<211> 582

<212> PRT

<213> *Enterobacter cloacae*

<400> 7038

Pro Phe Leu Phe Arg Leu Cys Val Leu Ser Cys Arg His Phe Ala Ala
 1 5 10 15
 Arg Glu Thr His Ser His Asp His Lys Asp Val Phe Ser Gly Met Asn

			20			25			30						
Arg	Arg	Arg	Phe	Leu	Lys	Gly	Ser	Leu	Ala	Met	Ala	Ala	Leu	Ser	Gly
Thr	Ser	Gly	Leu	Ala	Ser	Leu	Phe	Ser	Gln	Ala	Ala	Tyr	Ala	Ala	Asp
50	35					40					45				
Ser	Asp	Ile	Ala	Asp	Gly	Gln	Ser	Arg	Arg	Phe	Asp	Phe	Ser	Val	Leu
65					70					75				80	
Gln	Ser	Met	Ala	His	Asp	Leu	Ala	Lys	Thr	Ala	Trp	Gly	Gly	Ala	Pro
				85					90					95	
Arg	Pro	Leu	Pro	Glu	Thr	Leu	Ala	Thr	Met	Thr	Pro	Gln	Ala	Tyr	Asn
			100					105					110		
Ala	Ile	Arg	Tyr	Asp	Glu	Lys	Gln	Ser	Leu	Trp	Asn	Asn	Ile	Glu	Gly
			115				120					125			
Arg	Gln	Leu	Asp	Ala	Gln	Phe	Phe	His	Met	Gly	Met	Gly	Phe	Arg	Arg
					135						140				
Arg	Val	Arg	Met	Phe	Ser	Leu	Asp	Gln	Thr	Thr	Ser	Gln	Ala	Arg	Glu
145					150					155				160	
Ile	His	Phe	Arg	Pro	Glu	Leu	Phe	Ser	Tyr	Gly	Asp	Thr	Gly	Val	Asp
				165					170					175	
Thr	Lys	Gln	Leu	Glu	Gly	Gln	Ser	Asp	Leu	Gly	Phe	Ala	Gly	Phe	Arg
			180					185					190		
Val	Phe	Lys	Ala	Pro	Glu	Leu	Ala	Arg	Arg	Asp	Ile	Val	Ser	Phe	Leu
			195				200					205			
Gly	Ala	Ser	Tyr	Phe	Arg	Ala	Val	Asp	Asp	Thr	Tyr	Gln	Tyr	Gly	Leu
					215					220					
Ser	Ala	Arg	Gly	Leu	Ala	Val	Asp	Thr	Phe	Thr	Asp	Thr	Pro	Glu	Glu
225					230					235				240	
Phe	Pro	Asp	Phe	Thr	Ser	Phe	Trp	Phe	Glu	Thr	Val	Lys	Pro	Gly	Asp
				245					250					255	
Thr	Thr	Phe	Thr	Val	Tyr	Ala	Leu	Leu	Asp	Ser	Pro	Ser	Ile	Thr	Gly
			260					265					270		
Ala	Tyr	Lys	Phe	Val	Ile	His	Cys	Glu	Lys	Ser	Gln	Val	Ile	Met	Asp
			275				280					285			
Val	Glu	Asn	His	Leu	Tyr	Ala	Arg	Lys	Asp	Ile	Lys	Gln	Leu	Gly	Ile
			290			295					300				
Ala	Pro	Met	Thr	Ser	Met	Phe	Ser	Cys	Gly	Asn	Asn	Glu	Arg	Arg	Met
305					310				315					320	
Cys	Asp	Thr	Ile	His	Pro	Gln	Ile	His	Asp	Ser	Asp	Arg	Leu	Ala	Met
				325					330					335	
Trp	Arg	Gly	Asn	Gly	Glu	Trp	Ile	Cys	Arg	Pro	Leu	Asn	Asn	Pro	Gln
			340					345					350		
Lys	Leu	Gln	Phe	Asn	Ala	Tyr	Leu	Asp	Lys	Asn	Pro	Lys	Gly	Phe	Gly
			355				360					365			
Leu	Leu	Gln	Leu	Asp	Arg	Asp	Phe	Ser	His	Tyr	Gln	Asp	Val	Met	Gly
			370			375						380			
Trp	Tyr	Asn	Lys	Arg	Pro	Ser	Leu	Trp	Val	Glu	Pro	Arg	Asn	Asn	Trp
385					390				395					400	
Gly	Lys	Gly	Ser	Ile	Ala	Leu	Met	Glu	Ile	Pro	Thr	Thr	Gly	Glu	Thr
				405				410						415	
Leu	Asp	Asn	Val	Val	Cys	Phe	Trp	Gln	Pro	Glu	Lys	Pro	Val	Gln	Ala
				420				425					430		
Gly	Asp	Glu	Leu	Asp	Phe	Lys	Tyr	Arg	Leu	Tyr	Trp	Ser	Ala	Gln	Pro
				435				440				445			
Pro	Val	Arg	Ser	Pro	Leu	Ala	Asn	Val	Tyr	Ala	Thr	Arg	Thr	Gly	Met
					455					460					
Gly	Gly	Phe	Pro	Glu	Gly	Trp	Ala	Pro	Gly	Glu	Asn	Tyr	Pro	Lys	Val
465					470				475					480	
Trp	Ala	Arg	Arg	Phe	Ala	Ile	Asp	Phe	Val	Gly	Gly	Asp	Leu	Lys	Ala
				485					490					495	
Ala	Ala	Pro	Lys	Gly	Ile	Glu	Pro	Val	Ile	Thr	Leu	Ser	Ser	Gly	Glu
			500					505					510		

Ala Lys Gln Val Glu Ile Leu Tyr Val Glu Pro Phe Asp Gly Tyr Arg
 515 520 525
 Ile Leu Phe Asp Trp Tyr Pro Thr Ser Asp Ser Thr Glu Pro Val Asp
 530 535 540
 Met Arg Leu Phe Leu Arg Cys Gln Gly Asp Ala Ile Ser Glu Thr Trp
 545 550 555 560
 Leu Tyr Gln Tyr Phe Pro Pro Ala Pro Asp Lys Arg Asn Tyr Val Asp
 565 570 575
 Asp Arg Ile Met Arg
 580

<210> 7039

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7039

Ser Leu Trp Val Cys Ala Gly Trp Arg Leu Arg Leu Thr Arg Pro Ala
 1 5 10 15
 Leu Asp Ala Phe Val Gly Arg Val Ser Val Ser Ala Thr Arg Gln Leu
 20 25 30
 Arg Gly Thr Met Ser Ser Glu Ile Ile Pro Val Asn Gln Glu Ile Glu
 35 40 45
 Leu Arg Ala Val Glu Glu Arg Tyr Thr Thr Asp Leu His Asn Leu Val
 50 55 60
 Ile Lys Asn Lys Thr Trp Leu Gln Thr Ala Phe Asp Trp Ala Gln His
 65 70 75 80
 Val Gly Ser Glu Glu Asp Thr Arg Arg Asn Val Gln Ser Asn Gln Met
 85 90 95
 Leu His Gln Arg Gly Tyr Ala Lys Met Phe Leu Ile Phe Met Lys Asp
 100 105 110
 Glu Leu Val Gly Val Leu Ser Phe Asn Ala Ile Glu Pro Ala Asn Lys
 115 120 125
 Thr Gly Tyr Ile Gly Tyr Trp Leu Asp Glu Ala His Gln Gly Gln Gly
 130 135 140
 Ile Leu Ser Gln Ala Leu Gln Ala Phe Met Arg Tyr Tyr Val Glu Arg
 145 150 155 160
 Gly Glu Ile Arg Arg Phe Val Ile Lys Cys Arg Val Asp Asn Gln Ser
 165 170 175
 Ser Asn Arg Val Ala Gln Arg Asn Gly Phe Thr Leu Glu Gly Cys Leu
 180 185 190
 Arg Lys Ala Glu Met Leu Asn Gly Arg Tyr Asp Asp Val Asn Leu Tyr
 195 200 205
 Ala Arg Ile Phe Pro Leu
 210 215

<210> 7040

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 7040

Gly Lys Ile Met Thr Val Asp Glu Asn Tyr Phe Thr Glu Lys Tyr Gly
 1 5 10 15
 Leu Thr Arg Thr His Ser Glu Val Leu Leu Ser Ala Asp Ile Val Lys
 20 25 30
 Pro Gly Lys Thr Leu Asp Leu Gly Cys Gly Asn Gly Arg Asn Ser Leu
 35 40 45
 Tyr Leu Ala Ala Asn Gly His Asp Val Thr Ala Trp Asp Lys Asn Pro
 50 55 60
 Met Ser Ile Asp Asn Ile Glu Arg Ile Lys Ala Ala Glu Gly Ile Ala

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<210> 7041
<211> 287
<212> PRT
<213> Enterobacter cloacae
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1	Ser	Val	Ser	Leu	Leu	Arg	Lys	Met	Arg	Arg	Arg	Tyr	Gly	Gln	Val	Pro
1	Arg	Pro	Phe	Val	Gly	Leu	His	His	Val	Lys	Glu	Phe	Glu	Met	Lys	Leu
				20					25					30		
	Arg	Ala	Leu	Val	Val	Gly	Met	Gly	Leu	Leu	Cys	Ser	Phe	Ser	Ser	Phe
				35				40					45			
	Ala	Ala	Thr	Glu	Leu	Arg	Tyr	Gly	Leu	Glu	Ala	Glu	Tyr	Pro	Pro	Phe
				50			55					60				
	Glu	Ser	Arg	Asn	Ala	Ser	Gly	Glu	Leu	Glu	Gly	Phe	Asp	Val	Glu	Leu
65						70					75				80	
	Gly	Asn	Ala	Ile	Cys	Lys	Ala	Ala	Ala	Leu	Lys	Cys	Ser	Trp	Val	Glu
				85						90					95	
	Thr	Ser	Phe	Asp	Ala	Leu	Ile	Pro	Gly	Leu	Val	Ala	Lys	Lys	Phe	Asp
				100					105					110		
	Ala	Ile	Asn	Ser	Ala	Met	Asn	Ile	Thr	Glu	Gln	Arg	Arg	Lys	Ser	Ile
				115				120					125			
	Asp	Phe	Thr	Gln	Pro	Ile	Tyr	Arg	Ile	Pro	Ser	Gln	Leu	Val	Gly	Lys
				130			135					140				
	Ala	Gly	Ser	Ala	Val	Glu	Ala	Thr	Pro	Glu	Gly	Leu	Lys	Gly	Lys	Thr
145						150					155					160
	Ile	Gly	Val	Leu	Gln	Gly	Ser	Ile	Gln	Glu	Thr	Tyr	Ala	Lys	Glu	His
					165					170					175	
	Trp	Glu	Lys	His	Gly	Val	Thr	Val	Val	Ser	Tyr	Lys	Asp	Gln	Asn	Met
				180					185					190		
	Ala	Trp	Gly	Asp	Leu	Leu	Asn	Gly	Arg	Ile	Asp	Ala	Ser	Leu	Val	Met
				195				200					205			
	Ser	Ala	Ala	Gly	Gln	Ala	Gly	Phe	Leu	Ser	Lys	Pro	Gln	Gly	Lys	Gly
						215						220				
	Phe	Gly	Phe	Ile	Gly	Lys	Pro	Val	Ser	Asp	Asp	Thr	Ile	Leu	Gly	Ser
225						230					235					240
	Gly	Ile	Gly	Phe	Gly	Leu	Arg	Lys	Gly	Asp	Glu	Ala	Thr	Lys	Lys	Gln
					245					250					255	
	Leu	Asp	Ala	Ala	Ile	Asp	Lys	Val	Arg	Ala	Asp	Gly	Thr	Ile	Ala	Lys
				260				265						270		
	Leu	Ala	Asp	Lys	Tyr	Phe	Pro	Gly	Ile	Asp	Val	Ser	Val	Lys		
				275				280						285		

<210> 7042

<211> 336

<212> PRT

<213> *Enterobacter cloacae*

<400> 7042

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Pro Leu Lys  Lys Met His Asn  Leu Asn  Gln Arg Val Leu Asn Leu Pro
1      5      10      15
Ala Gly Tyr  Phe Gly Met Val  Leu Gly Thr Ile Gly Met Gly Phe Ala
20      25      30
Trp Arg Tyr Ala Ser Thr Ile  Trp Pro Val Thr Arg Trp Pro Gly Glu
35      40      45
Ile Leu Val Ala Leu Ala Val Ala Ile Trp Phe Leu Leu Ser Val Ala
50      55      60
Phe Leu Thr Arg Ala Val Arg Phe Pro His Ser Val Leu Ala Glu Met
65      70      75      80
Arg His Pro Val Met Ser Ser Phe Val Ser Leu Phe Pro Ala Thr Thr
85      90      95
Leu Leu Val Ala Ile Gly Phe Val Pro Trp Tyr Arg Pro Val Ala Leu
100     105     110
Gly Leu Phe Ser Val Gly Val Val Ile Gln Leu Ala Tyr Ala Ala Trp
115     120     125
Gln Ser Ala Gly Leu Trp Arg Gly Lys His Pro Glu Glu Ala Thr Thr
130     135     140
Pro Gly Leu Tyr Leu Pro Thr Val Ala Asn Asn Phe Ile Ser Ala Met
145     150     155     160
Ala Cys Gly Ala Leu Gly Phe His Asp Ala Gly Leu Val Phe Leu Gly
165     170     175
Ala Gly Val Phe Ser Trp Leu Ser Leu Glu Pro Val Ile Leu Gln Arg
180     185     190
Leu Arg Ser Ala Gly Glu Leu Pro Ala Ala Leu Arg Thr Ser Leu Gly
195     200     205
Ile Gln Leu Ala Pro Ala Leu Val Ala Cys Ser Ala Trp Phe Ser Val
210     215     220
Asn Gly Gly Glu Ala Asp Thr Phe Ala Lys Met Leu Phe Gly Tyr Gly
225     230     235     240
Leu Leu Gln Leu Leu Phe Met Leu Arg Leu Met Pro Trp Tyr Leu Ser
245     250     255
Gln Pro Phe Asn Ala Ser Phe Trp Ser Phe Ser Phe Gly Val Ser Ala
260     265     270
Leu Ala Thr Thr Gly Leu His Leu Gly Gln Ser Ser Pro Ser Gly Phe
275     280     285
Phe His Ala Leu Ala Val Pro Leu Phe Ile Phe Thr Asn Val Ile Ile
290     295     300
Ala Met Leu Leu Val Arg Thr Phe Ile Leu Leu Met Gln Gly Lys Leu
305     310     315     320
Leu Val Arg Ala Asp Lys Ala Leu Leu Met Gln Ser Glu Glu Lys
325     330     335

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<210> 7043

<211> 533

<212> PRT

<213> *Enterobacter cloacae*

<400> 7043

```

Met Met Lys Ser Thr Phe Thr Met Ile Thr Leu Ala Leu Ala Ala Leu
1      5      10      15
Thr Val Ser Ser Thr Val Ala Ala Lys Thr Leu Val Tyr Cys Ser Glu
20      25      30
Gly Ser Pro Glu Asn Phe Asn Pro Gln Leu Tyr Thr Ser Gly Thr Ser
35      40      45

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Val Asp Ala Ser Ala Val Pro Val Tyr Asn Arg Leu Val Asp Phe Lys
 50 55 60
 Pro Gly Thr Thr Glu Leu Val Pro Ser Leu Ala Glu Ser Trp Glu Val
 65 70 75 80
 Ser Glu Asp Gly Lys Val Tyr Thr Phe His Leu Arg Lys Gly Val Lys
 85 90 95
 Phe His Ser Asn Lys Leu Phe Thr Pro Thr Arg Asp Phe Asn Ala Asp
 100 105 110
 Asp Val Ile Phe Ser Phe Met Arg Gln Lys Asp Val Asn His Pro Tyr
 115 120 125
 His Asn Val Ser Asn Gly Ser Tyr Ser Asn Phe Glu Ser Leu Glu Phe
 130 135 140
 Gly Ser Leu Ile Thr Ala Ile Asp Lys Val Asp Asp Arg Thr Val Arg
 145 150 155 160
 Phe Thr Leu Ala His Pro Glu Ala Pro Phe Val Ala Asp Leu Ala Trp
 165 170 175
 Tyr Phe Ala Ser Ile Leu Ser Ala Glu Tyr Ala Asp Ala Met Leu Lys
 180 185 190
 Ala Gly Thr Pro Glu Lys Val Asp Met Gln Pro Ile Gly Thr Gly Pro
 195 200 205
 Phe Lys Leu Ser Gln Tyr Gln Lys Asp Ser Arg Ile Leu Phe Thr Ala
 210 215 220
 Phe Pro Asp Tyr Trp Gln Gly Lys Ser Lys Leu Asp Arg Leu Val Phe
 225 230 235 240
 Thr Ile Thr Pro Asp Ala Ser Val Arg Phe Ala Lys Val Glu Lys Asn
 245 250 255
 Glu Cys Gln Val Met Pro Phe Pro Asn Pro Ala Asp Leu Pro Arg Met
 260 265 270
 Lys Ala Asn Lys Asp Ile Asn Leu Met Ser Lys Ala Gly Leu Asn Thr
 275 280 285
 Gly Phe Leu Ala Phe Asn Thr Gln Lys Pro Pro Leu Asn Asn Val Lys
 290 295 300
 Val Arg Gln Ala Leu Ala Met Ala Ile Asn Lys Pro Ala Ile Ile Glu
 305 310 315 320
 Ala Val Phe His Gly Thr Gly Thr Ala Ala Lys Asn Leu Leu Pro Pro
 325 330 335
 Gly Val Trp Ser Ala Asp Ser Glu Leu Lys Asp Tyr Asp Tyr Asp Pro
 340 345 350
 Glu Lys Ala Lys Ala Leu Leu Lys Glu Ala Gly Phe Ala Asn Gly Val
 355 360 365
 Ser Ile Asp Leu Trp Ala Met Pro Val Gln Arg Pro Tyr Asn Pro Asn
 370 375 380
 Ala Lys Arg Met Ala Glu Met Ile Gln Ala Asp Trp Ala Lys Val Gly
 385 390 395 400
 Val Gln Thr Lys Ile Val Thr Tyr Glu Trp Gly Glu Tyr Leu Lys Arg
 405 410 415
 Val Lys Gly Gly Glu His Gln Ala Ala Leu Met Gly Trp Thr Thr Ala
 420 425 430
 Thr Gly Asp Pro Asp Asn Phe Phe Gly Pro Leu Phe Thr Cys Thr Ser
 435 440 445
 Ala Asn Gly Gly Ser Asn Ser Ala Lys Trp Cys Tyr Lys Pro Phe Asp
 450 455 460
 Asn Leu Ile Ala Glu Ala Lys Ser Ile Thr Asp Arg Glu Lys Arg Val
 465 470 475 480
 Ala Leu Tyr Lys Gln Ala Gln Gln Met Met His Asp Gln Met Pro Ala
 485 490 495
 Val Met Ile Ala His Ser Thr Ile Phe Glu Pro Val Arg Lys Glu Val
 500 505 510
 Thr Gly Tyr Glu Ile Asp Pro Phe Gly Lys His Leu Phe Trp Gln Val
 515 520 525
 Asp Leu Lys Glu

530

<210> 7044

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7044

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Leu Lys Lys Leu Lys Ile Asn Tyr Leu Leu Ile Gly Ile Val Thr Leu
1      5      10      15
Leu Leu Ala Val Ala Leu Trp Pro Ser Ile Pro Trp Phe Gly Lys Ala
20      25      30
Glu Asn Arg Ile Ala Ala Ile Gln Glu Arg Gly Glu Arg Val Ser
35      40      45
Thr Leu Ser Ser Pro Leu Ile Tyr Asp Asp Ile Asn Gly Lys Thr Ile
50      55      60
Gly Leu Asp Tyr Glu Leu Ala Gln Leu Phe Ala Asp Tyr Leu Gly Val
65      70      75      80
Lys Leu Lys Val Thr Val Arg Gln Asn Ile Asn Gln Leu Phe Asp Asp
85      90
Leu Asp His Asp Arg Ala Asp Ile Leu Ala Ala Gly Leu Val Tyr Asn
100      105      110
Ser Glu Arg Ser Lys Asn Tyr Gln Pro Gly Pro Thr Tyr Tyr Ser Val
115      120      125
Ser Gln Gln Val Val Tyr Arg Val Gly Ser Leu Arg Pro Arg Ser Leu
130      135      140
Ala Asp Ile Thr Asp Gln Gln Leu Thr Ile Ala Pro Gly His Val Val
145      150      155      160
Ile Asp Asp Leu Arg Ala Leu Lys Glu Lys Lys Tyr Pro Asn Leu Ser
165      170      175
Trp Thr Val Asp Pro Lys Leu Gly Thr Thr Glu Leu Leu Glu Gln Val
180      185      190
Lys Asp Lys Lys Leu Ala Tyr Thr Ile Ala Asp Ser Val Ala Ile Ser
195      200      205
Leu Phe Gln Arg Val His Pro Glu Ile Ala Val Ala Leu Asp Val Thr
210      215      220
Asp Glu Gln Pro Val Thr Trp Phe Thr Gln Leu Asp Asp Asp Gln Thr
225      230      235      240
Val Ser Ala Ala Met Leu Asp Phe Phe Asn Ser Ile Asn Glu Asp Gly
245      250      255
Thr Leu Ala Ser Ser Thr Thr Gly Val Glu Gly Ala Ala His Ser Val
260      265      270
Arg Trp Gln
275

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<210> 7045

<211> 259

<212> PRT

<213> Enterobacter cloacae

<400> 7045

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Pro Lys Arg Gly Ser Cys Gln Pro Ser Trp Val Lys Thr Thr Arg Ala
1      5      10      15
Phe Arg Ile Val Glu Lys Thr Pro Arg Ser Ala Leu Ile Thr Ser Phe
20      25      30
Glu Phe Glu Pro Val Asp Gly Gln Pro Val Ala Asp Tyr Gln Pro Gly
35      40      45
Gln Tyr Leu Gly Val Trp Leu Lys Pro Glu Gly Phe Pro His Gln Glu
50      55      60
Ile Arg Gln Tyr Ser Leu Thr Arg Lys Pro Asp Gly Lys Gly Tyr Arg
65      70      75      80

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Ile Ala Val Lys Arg Glu Glu Gly Gly Gln Val Ser Asn Trp Leu His
 85 90 95
 Asn Glu Ala Ser Val Gly Asp Val Val His Leu Ala Ala Pro Ala Gly
 100 105 110
 Asp Phe Phe Met Ala Val Glu Thr Asn Thr Pro Val Thr Leu Ile Ser
 115 120 125
 Ala Gly Val Gly Gln Thr Pro Met Leu Ala Met Leu Asp Thr Leu Ala
 130 135 140
 Lys Ala Asn His Ser Ala Gln Val Asn Trp Phe His Ala Ala Glu Asn
 145 150 155 160
 Gly Asp Val His Ala Phe Ala Asp Glu Val Lys Ala Leu Gly Ala Gly
 165 170 175
 Leu Pro His Phe Thr Ala His Thr Trp Tyr Arg Ser Pro Thr Glu Ala
 180 185 190
 Asp Arg Ala Ala Ala Arg Phe Asp Ser Glu Gly Leu Met Asn Leu Gly
 195 200 205
 Gln His Glu Gly Ala Phe Ser Ala Pro Gly Met Gln Phe Tyr Val Cys
 210 215 220
 Gly Pro Val Ala Phe Met Gln Tyr Ala Ala Lys Gln Leu Val Asp Leu
 225 230 235 240
 Gly Val Asn Lys Asp Asn Ile His Tyr Glu Cys Phe Gly Pro His Lys
 245 250 255
 Val Leu

<210> 7046

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 7046

Ile Ala Met Gly Ser Gly Asn Asn Ala His Val Asp Ile Asp Ile Ala
 1 5 10 15
 Val Ala Ala Lys Arg Thr His Phe Pro Leu Gln His Ala Gln Gln
 20 25 30
 Phe Asp Leu Gln Arg Arg Gly His Ile Ala Asn Phe Ile Lys Glu Gln
 35 40 45
 Arg Ala Pro Leu Cys Arg Leu Glu Gln Pro Phe Thr Ala Ala His Arg
 50 55 60
 Ala Gly Lys Gly Ala Ala Gly Met Ala Glu Glu Leu Arg Leu Lys Gln
 65 70 75 80
 Leu Phe Arg Gln Arg Ala Thr Val Asp Gly Asn Lys Gly Ile Phe Thr
 85 90 95
 Ala Trp Ala Gly Val Val Asp Arg Leu Gly Gln Asp Leu Phe Pro Gly
 100 105 110
 Pro Ala Leu Ala Val Asp Gln His Ala Asn Val Gly Leu Arg His His
 115 120 125
 Pro Arg Leu Phe Gln Gln Ala Gln His His Arg Ala Thr Arg His Asp
 130 135 140
 Gly Phe Thr Pro Ala Val Val Ala Gly Trp Arg Arg Val Leu Lys Ser
 145 150 155 160
 Ala Val Asp Arg Phe Ile Glu Gly Val Phe Ile His Arg Phe Gly Glu
 165 170 175
 Glu Ala Glu Tyr Pro Leu Leu Arg Arg Gly His Arg Ile Arg Asn Arg
 180 185 190
 Ser Val Ser Gly Glu Asp Asn His Arg His Pro Gly Leu Leu Leu Leu
 195 200 205
 Asp Leu Arg Glu Gln Leu Gln Ala Ile His Phe Ile His Ala Gln Ile
 210 215 220
 Ala Asp His Gln Ile Asp Phe Leu Ala Ala Glu His Phe Gln Pro Leu
 225 230 235 240

Leu Pro Ala Phe Ser Gly Asp His Ala Val Ala Phe Ala Asp Gln Thr
 245 250 255
 His Pro Gln Gln Leu
 260

<210> 7047

<211> 495

<212> PRT

<213> Enterobacter cloacae

<400> 7047

Arg Ala Asp Ser Val Thr Leu Ser Ser Asn Pro Asp Asp Glu Ser Asn
 1 5 10 15
 Val Leu Lys Arg Trp Pro Ala Phe Pro Arg Ser Leu Arg Gln Leu Val
 20 25 30
 Met Met Ala Phe Leu Leu Ile Leu Leu Pro Leu Leu Val Leu Ala Trp
 35 40 45
 Gln Ala Trp Gln Ser Leu Asn Ala Leu Ser Ala Gln Ala Ala Leu Thr
 50 55 60
 Asn Arg Thr Thr Leu Ile Asp Ala Arg Arg Ser Glu Ala Met Thr Asn
 65 70 75 80
 Ala Ala Leu Glu Met Glu Arg Ser Tyr Arg Gln Tyr Cys Val Leu Asp
 85 90 95
 Asp Arg Thr Leu Glu Arg Val Tyr Gln Asn Gln Arg Lys Arg Tyr Ser
 100 105 110
 Glu Met Leu Asp Ala His Ala Gly Val Leu Pro Asp Asp Lys Leu Tyr
 115 120 125
 Gln Ala Leu Arg Gln Asp Leu Asn Asp Leu Ala Arg Leu Gln Cys Lys
 130 135 140
 Asn Ser Gly Pro Asp Ala Ala Ala Ala Arg Leu Glu Ala Phe Ala
 145 150 155 160
 Asn Ala Asn Thr Glu Met Val Gln Ser Thr Arg Thr Val Ile Phe Ser
 165 170 175
 Arg Gly Gln Gln Leu Gln Gln Glu Ile Ala Glu Arg Gly Gln Phe Phe
 180 185 190
 Gly Trp Gln Ala Leu Val Leu Phe Leu Val Ser Leu Gly Leu Val Leu
 195 200 205
 Leu Phe Thr Arg Met Ile Ile Gly Pro Val Lys Gly Ile Gln Arg Met
 210 215 220
 Ile Asn Arg Leu Gly Glu Gly Lys Ser Leu Gly Asp Thr Val Val Phe
 225 230 235 240
 Lys Gly Pro Arg Glu Leu Arg Ser Val Gly Gln Arg Ile Ile Trp Leu
 245 250 255
 Ser Glu Arg Leu Ala Trp Leu Glu Ser Gln Arg His Gln Phe Leu Arg
 260 265 270
 His Ile Ser His Glu Leu Lys Thr Pro Leu Ala Ser Met Arg Glu Gly
 275 280 285
 Thr Glu Leu Leu Ala Asp Glu Val Ala Gly Pro Leu Ser Pro Glu Gln
 290 295 300
 Lys Glu Ile Val Ala Ile Leu Asp Ala Ser Ser Arg Asn Leu Gln Lys
 305 310 315 320
 Leu Ile Glu Gln Leu Leu Asp Tyr Asn Arg Lys Leu Ala Asp Gly Ala
 325 330 335
 Val Val Leu Glu Ser Val Glu Ile Glu Pro Leu Val Asp Met Val Ile
 340 345 350
 Ser Ala His Ser Leu Pro Ala Arg Ala Lys Met Met His Thr Gln Val
 355 360 365
 Asp Leu Asn Ala Pro Ser Cys Leu Ala Glu Pro Met Leu Leu Met Ser
 370 375 380
 Val Leu Asp Asn Leu Tyr Ser Asn Ala Val His Tyr Gly Thr Glu Ser
 385 390 395 400

Gly Thr Ile Tyr Ile Arg Ser Asn Asn Asn Gly Ser Arg Val Phe Ile
 405 410 415
 Asp Val Ala Asn Thr Gly Ser Pro Ile Pro Asp Asp Glu Lys Thr Met
 420 425 430
 Ile Phe Glu Pro Phe Phe Gln Gly Ser His Gln Arg Lys Gly Ala Val
 435 440 445
 Lys Gly Ser Gly Leu Gly Leu Ser Ile Ala Arg Asp Cys Ile Arg Arg
 450 455 460
 Met Gln Gly Glu Leu Asn Ile Val Ser Asp Glu Arg Ala Asp Val Cys
 465 470 475 480
 Phe Arg Ile Glu Leu Pro Leu Glu Pro Glu Lys Ser Met Lys
 485 490 495

<210> 7048

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 7048

Gly Pro Thr Met Lys Lys Ile Asp Ala Ile Ile Lys Pro Phe Lys Leu
 1 5 10 15
 Asp Asp Val Arg Glu Ala Leu Ala Glu Val Gly Ile Thr Gly Met Thr
 20 25 30
 Val Thr Glu Val Lys Gly Phe Gly Arg Gln Lys Gly His Thr Glu Leu
 35 40 45
 Tyr Arg Gly Ala Glu Tyr Met Val Asp Phe Leu Pro Lys Val Lys Ile
 50 55 60
 Glu Ile Val Val Ser Asp Glu Ile Val Asp Thr Cys Val Asp Thr Ile
 65 70 75 80
 Ile Arg Thr Ala Gln Thr Gly Lys Ile Gly Asp Gly Lys Ile Phe Val
 85 90 95
 Phe Asp Val Ala Arg Val Ile Arg Ile Arg Thr Gly Glu Glu Asp Asp
 100 105 110
 Ala Ala Ile
 115

<210> 7049

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 7049

Asp Ala Glu Thr Arg Gly Cys Glu Ala Met Thr Ser Arg Lys Pro Ala
 1 5 10 15
 His Leu Leu Leu Val Asp Asp Asp Pro Gly Leu Leu Lys Leu Leu Gly
 20 25 30
 Met Arg Leu Val Ser Glu Gly Tyr Ser Val Val Thr Ala Glu Ser Gly
 35 40 45
 Gln Glu Gly Leu Lys Val Leu Ser Arg Glu Lys Ile Asp Leu Val Ile
 50 55 60
 Ser Asp Leu Arg Met Asp Glu Met Asp Gly Leu Gln Leu Phe Thr Glu
 65 70 75 80
 Ile Gln Lys Gln Gln Pro Gly Met Pro Val Ile Ile Leu Thr Ala His
 85 90 95
 Gly Ser Ile Pro Asp Ala Val Ala Ala Thr Gln Gln Gly Val Phe Ser
 100 105 110
 Phe Leu Thr Lys Pro Val Asp Lys Asp Ala Leu Tyr Lys Ala Ile Asp
 115 120 125
 Ser Ala Leu Glu His Ala Ala Pro Ser Gly Asp Asp Gly Trp Arg Glu
 130 135 140
 Ser Ile Val Thr Arg Ser Pro Val Met Leu Arg Leu Leu Glu Gln Ala

145 150 155 160
 Arg Met Val Ala Gln Ser Asp Val Ser Val Leu Ile Asn Gly Gln Ser
 165 170 175
 Gly Thr Gly Lys Glu Ile Leu Ala Gln Ala Ile His Asn Ala Ser Pro
 180 185 190
 Arg Ser Lys Asn Ala Phe Ile Ala Ile Asn Cys Gly Ala Leu Pro Glu
 195 200 205
 Gln Leu Leu Glu Ser Glu Leu Phe Gly His Ala Arg Gly Ala Phe Thr
 210 215 220
 Gly Ala Val Ser Ser Arg Glu Gly Leu Phe Gln Ala Ala Glu Gly Gly
 225 230 235 240
 Thr Leu Phe Leu Asp Glu Ile Gly Asp Met Pro Ala Pro Leu Gln Val
 245 250 255
 Lys Leu Leu Arg Val Leu Gln Glu Arg Lys Val Arg Pro Leu Gly Ser
 260 265 270
 Asn Arg Asp Ile Asp Ile Asn Val Arg Ile Ile Ser Ala Thr His Arg
 275 280 285
 Asp Leu Pro Lys Val Met Ala Arg Asn Glu Phe Arg Glu Asp Leu Tyr
 290 295 300
 Tyr Arg Leu Asn Val Val Asn Leu Lys Ile Pro Ala Leu Ala Glu Arg
 305 310 315 320
 Ala Glu Asp Ile Pro Leu Leu Ala Asn His Leu Leu Arg Gln Ala Ala
 325 330 335
 Asp Arg His Lys Pro Phe Val Arg Ala Phe Ser Thr Asp Ala Met Lys
 340 345 350
 Arg Leu Met Thr Ala Ser Trp Pro Gly Asn Val Arg Gln Leu Val Asn
 355 360 365
 Val Ile Glu Gln Cys Val Ala Leu Thr Ser Ser Pro Val Ile Ser Asp
 370 375 380
 Ala Leu Val Glu Gln Ala Leu Glu Gly Glu Asn Thr Ala Leu Pro Thr
 385 390 395 400
 Phe Ala Glu Ala Arg Asn Gln Phe Glu Leu Asn Tyr Leu Arg Lys Leu
 405 410 415
 Leu Gln Ile Thr Lys Gly Asn Val Thr His Ala Ala Arg Met Ala Gly
 420 425 430
 Arg Asn Arg Thr Glu Phe Tyr Lys Leu Leu Ser Arg His Glu Leu Glu
 435 440 445
 Ala Asn Asp Phe Lys Glu
 450 455

<210> 7050

<211> 1306

<212> PRT

<213> Enterobacter cloacae

<400> 7050

Ala Pro Arg Arg Phe Glu Asp Glu Arg Leu Met Met Glu Ile Leu Arg
 1 5 10 15
 Gly Ser Pro Ala Leu Ser Ala Phe Arg Ile Thr Lys Leu Leu Ala Arg
 20 25 30
 Phe Gln Ala Ala Asp Leu Pro Val Ser Asn Ile Tyr Ala Glu Tyr Val
 35 40 45
 His Phe Ala Asp Leu Asn Ala Pro Leu Asn Ala Glu Glu Arg Val Gln
 50 55 60
 Leu Glu Arg Leu Leu Lys Tyr Gly Pro Ser Leu Ser Ser His Thr Pro
 65 70 75 80
 Thr Gly Lys Leu Ile Leu Ala Thr Pro Arg Pro Gly Thr Ile Ser Pro
 85 90 95
 Trp Ser Ser Lys Ala Thr Asp Ile Ala His Asn Cys Gly Leu Asn Gln
 100 105 110
 Ile Asn Arg Leu Glu Arg Gly Val Ala Tyr Tyr Val Glu Ala Ser Thr

115	120	125
Leu Ser Asp Ala Gln Trp	Gln Ala Val Ala Ala Glu	Leu His Asp Arg
130	135	140
Met Met Glu Ser Val Phe	Asp Ser Leu Asp Asp	Ala Gln Lys Leu Phe
145	150	155
Ser His His Gln Pro Ala	Pro Val Gln Ser Val	Asp Leu Leu Gly Gln
160	165	170
Gly Arg Gln Ala Leu Ile	Asp Ala Asn Leu Arg	Leu Gly Leu Ala Leu
175	180	185
Ala Glu Asp Glu Ile Asp	Tyr Leu Gln Asp Ala	Phe Val Lys Leu Asn
190	195	200
Arg Asn Pro Asn Asp Ile	Glu Leu Tyr Met Phe	Ala Gln Ala Asn Ser
205	210	215
Glu His Cys Arg His Lys	Ile Phe Asn Ala Asp	Trp Ile Ile Asp Gly
220	225	230
Glu Gln Gln Pro Lys Ser	Leu Phe Lys Met Ile	Lys Asn Thr Met Glu
235	240	245
Gln Thr Pro Asp His Val	Leu Ser Ala Tyr Lys	Asp Asn Ala Ala Val
250	255	260
Met Glu Gly Ser Glu Val	Gly Arg Phe Phe Ala	Asp Arg Glu Ala Gly
265	270	275
Arg Tyr Asp Phe His Gln	Glu Pro Ala His Ile	Leu Met Lys Val Glu
280	285	290
Thr His Asn His Pro Thr	Ala Ile Ser Pro Trp	Pro Gly Ala Ala Thr
295	300	305
Gly Ser Gly Gly Glu Ile	Arg Asp Glu Gly Ala	Thr Gly Arg Gly Ala
310	315	320
Lys Pro Lys Ala Gly Leu	Val Gly Phe Ser Val	Ser Asn Leu Arg Ile
325	330	335
Pro Gly Phe Glu Gln Pro	Trp Glu Glu Asp Phe	Gly Lys Pro Glu Arg
340	345	350
Ile Val Thr Ala Leu Asp	Ile Met Thr Glu Gly	Pro Leu Gly Gly Ala
355	360	365
Ala Phe Asn Asn Glu Phe	Gly Arg Pro Ala Leu	Asn Gly Tyr Phe Arg
370	375	380
Thr Tyr Glu Glu Lys Val	Asp Ser His Asn Gly	Glu Glu Leu Arg Gly
385	390	395
Tyr His Lys Pro Ile Met	Leu Ala Gly Gly Ile	Gly Asn Ile Arg Ala
400	405	410
Asp His Val Gln Lys Gly	Glu Ile Val Val Gly	Ala Lys Leu Ile Val
415	420	425
Leu Gly Gly Pro Ala Met	Asn Ile Gly Leu Gly	Gly Gly Ala Ala Ser
430	435	440
Ser Met Ala Ser Gly Gln	Ser Asp Ala Asp Leu	Asp Phe Ala Ser Val
445	450	455
Gln Arg Asp Asn Pro Glu	Met Glu Arg Arg Cys	Gln Glu Val Ile Asp
460	465	470
Arg Cys Trp Gln Leu Gly	Asp Ala Asn Pro Ile	Leu Phe Ile His Asp
475	480	485
Val Gly Ala Gly Gly Leu	Ser Asn Ala Met Pro	Glu Leu Val Ser Asp
490	495	500
Gly Gly Arg Gly Gly Arg	Phe Asn Leu Arg Asp	Ile Leu Ser Asp Glu
505	510	515
Pro Gly Met Ser Pro Leu	Glu Ile Trp Cys Asn	Glu Ser Gln Glu Arg
520	525	530
Tyr Val Leu Ala Val Ala	Ala Asp Gln Leu Pro	Leu Phe Asp Glu Leu
535	540	545
Cys Arg Arg Glu Arg Ala	Pro Tyr Ala Val Ile	Gly Glu Ala Thr Glu
550	555	560
Glu Gln His Leu Ser Leu	Ser Asp Thr His Phe	Asp Asn Gln Pro Ile
565	570	575
580	585	590
595	600	605

Asp Leu Pro Leu Asp Val Leu Leu Gly Lys Thr Pro Lys Met Thr Arg
 610 615 620
 Asp Val Gln Thr Arg Lys Ala Ala Gly Lys Ala Leu Asp Arg Gln Gly
 625 630 635 640
 Ile Thr Val Ala Glu Ala Val Asn Arg Val Leu His Leu Pro Ala Val
 645 650 655
 Ala Glu Lys Thr Phe Leu Val Thr Ile Gly Asp Arg Thr Val Thr Gly
 660 665 670
 Met Val Ser Arg Asp Gln Met Val Gly Pro Trp Gln Ile Pro Val Ala
 675 680 685
 Asn Cys Ala Val Thr Thr Ala Ser Leu Asp Ser Tyr Tyr Gly Glu Ala
 690 695 700
 Met Ala Leu Gly Glu Arg Thr Pro Val Ala Leu Leu Asp Phe Ala Ala
 705 710 715 720
 Ser Ala Arg Leu Ala Val Gly Glu Ala Leu Thr Asn Ile Ala Ala Thr
 725 730 735
 Gln Ile Gly Asp Ile Lys Arg Ile Lys Leu Ser Ala Asn Trp Met Ala
 740 745 750
 Ala Ala Gly His Pro Gly Glu Asp Ala Gly Leu Tyr Glu Ala Val Lys
 755 760 765
 Ala Val Gly Glu Glu Leu Cys Pro Ala Leu Gly Leu Thr Ile Pro Val
 770 775 780
 Gly Lys Asp Ser Met Ser Met Lys Thr Arg Trp Gln Glu Gly Asn Glu
 785 790 795 800
 Gln Arg Glu Met Thr Ser Pro Leu Ser Leu Val Ile Thr Ala Phe Ala
 805 810 815
 Arg Val Glu Asp Val Arg His Thr Val Thr Pro Gln Leu Ser Thr Glu
 820 825 830
 Asp Asn Ala Leu Leu Leu Ile Asp Leu Gly Lys Gly His Asn Ala Leu
 835 840 845
 Gly Ala Thr Ala Leu Ala Gln Val Tyr Arg Gln Leu Gly Asp Lys Pro
 850 855 860
 Ala Asp Val Arg Asp Val Ala Gln Leu Lys Gly Phe Tyr Asp Ala Ile
 865 870 875 880
 Gln Ala Leu Val Ala Gln Arg Lys Leu Leu Ala Tyr His Asp Arg Ser
 885 890 895
 Asp Gly Gly Leu Leu Val Thr Leu Ala Glu Met Ala Phe Thr Gly His
 900 905 910
 Cys Gly Val Glu Ala Asn Ile Ala Thr Leu Gly Glu Asp Arg Leu Ala
 915 920 925
 Ala Leu Phe Asn Glu Glu Leu Gly Ala Val Ile Gln Val Arg Ala Ala
 930 935 940
 Asp Arg Asp Ala Val Glu Ala Ile Leu Ala Gln His Gly Leu Ala Asp
 945 950 955 960
 Cys Val His Tyr Leu Gly Lys Ala Val Gln Gly Asp Arg Phe Val Ile
 965 970 975
 Glu Ala Asp Gly His Ala Val Phe Ser Glu Ser Arg Thr Thr Leu Arg
 980 985 990
 Met Trp Trp Ala Glu Thr Thr Trp Gln Met Gln Arg Leu Arg Asp Asn
 995 1000 1005
 Pro Glu Cys Ala Asp Gln Glu His Asn Ala Lys Ala Asn Asp Asn Asp
 1010 1015 1020
 Pro Gly Leu Asn Val Lys Leu Ser Phe Asp Ile Asn Glu Asp Ile Ala
 1025 1030 1035 1040
 Ala Pro Tyr Ile Ala Thr Gly Ala Arg Pro Lys Val Ala Val Leu Arg
 1045 1050 1055
 Glu Gln Gly Val Asn Ser His Val Glu Met Ala Ala Ala Phe His Arg
 1060 1065 1070
 Ala Gly Phe Asp Ala Ile Asp Val His Met Ser Asp Leu Leu Ala Gly
 1075 1080 1085
 Arg Thr Gly Leu Asp Asp Phe Gln Ala Leu Val Ala Cys Gly Gly Phe

1090 1095 1100
 Ser Tyr Gly Asp Val Leu Gly Ala Gly Glu Gly Trp Ala Lys Ser Ile
 1105 1110 1115 1120
 Leu Phe Asn Ser Arg Val Arg Asp Glu Phe Glu Thr Phe Phe His Arg
 1125 1130 1135
 Pro Gln Thr Leu Ala Leu Gly Val Cys Asn Gly Cys Gln Met Met Ser
 1140 1145 1150
 Asn Leu Arg Glu Leu Ile Pro Gly Ser Glu Ala Trp Pro Arg Phe Val
 1155 1160 1165
 Arg Asn Gln Ser Asp Arg Phe Glu Ala Arg Phe Ser Leu Val Glu Val
 1170 1175 1180
 Thr Gln Ser Pro Ser Leu Leu Leu Gln Gly Met Val Gly Ser Gln Met
 1185 1190 1195 1200
 Pro Ile Ala Val Ser His Gly Glu Gly Gln Val Glu Met Arg Asp Ala
 1205 1210 1215
 Ala His Leu Ala Gln Leu Glu Ser Lys Gly Leu Val Ala Leu Arg Phe
 1220 1225 1230
 Val Asp Asn Phe Gly Lys Val Thr Glu Thr Tyr Pro Ala Asn Pro Asn
 1235 1240 1245
 Gly Ser Ala Asn Gly Ile Thr Ala Val Thr Ser Glu Ser Gly Arg Val
 1250 1255 1260
 Thr Ile Met Met Pro His Pro Glu Arg Val Phe Arg Thr Val Ser Asn
 1265 1270 1275 1280
 Ser Trp His Pro Glu Asn Trp Gly Glu Asp Ser Pro Trp Met Arg Ile
 1285 1290 1295
 Phe Arg Asn Ala Arg Lys Gln Leu Gly
 1300 1305

<210> 7051

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 7051

Ala Gly Lys Ile Asn Glu Met Asn Asn Asn Leu Val Ser Met Ser His
 1 5 10 15
 Val Phe Tyr Arg Ala Leu Arg Ala Val Phe Ser Ser Lys Asn Val Arg
 20 25 30
 Leu Ser Leu Pro Cys Leu Leu Leu Ala Gly Cys Val Thr His Ala Pro
 35 40 45
 Lys Ser Ala Ile Ser His Lys Gln Glu Asp Lys Trp Pro Gln Lys Gln
 50 55 60
 Leu Ala Asp Phe Leu Ser Thr Arg Cys Asp Asp Ile Trp Ser Leu Ser
 65 70 75 80
 Gly Arg Asp Val Glu Ser Asn Pro Leu Phe Trp Leu Arg Gly Ile Asp
 85 90 95
 Cys Ala Gln Arg Leu Ala Pro Ala Glu Ala Arg Ala Gln Ala Ala Met
 100 105 110
 Leu Met Asp Asp Thr Trp Gln Asp Ala Phe Lys Arg Gly Ile Val Met
 115 120 125
 Ala Asp Ala Arg Ile Thr Pro Val Glu Arg Arg Ala Asn Val Thr Arg
 130 135 140
 Leu Asp Thr Tyr Val Ile Asn Ile Pro Pro Gln Val Arg Pro Val Tyr
 145 150 155 160
 Gln Leu Trp Arg Asp Gly Gln Thr Leu Gln Leu Ser Glu Glu
 165 170 175
 Arg Phe Arg Tyr Ser Lys Leu Gln Gln Ser Ser Asp Ser Glu Leu Asp
 180 185 190
 Ala Leu Arg Gln Gln Gln Glu Ser Leu Arg Glu Gln Leu Glu Thr Thr
 195 200 205
 Thr Arg Lys Leu Glu Asn Leu Thr Asp Ile Glu Arg Gln Leu Ser Thr

210		215		220	
Arg Lys Pro Ala Gly	Ser Tyr Leu Pro	Asp Gly Ser Lys Gly Asn Ser			
225	230	235		240	
Ala Thr Thr Pro Asp	Ser Glu Thr Pro	Lys Gln Glu Asp Val Lys Pro			
	245	250		255	

<210> 7052

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 7052

His Lys Ile Ser Asn Asn Gln Lys Arg Ser Lys Glu Arg Leu Met Glu	
1	5 10 15
Ser Lys Val Val Val Pro Ala Glu Gly Lys Lys Ile Thr Leu Gln Asn	
	20 25 30
Gly Lys Ile Asn Val Pro His Asn Pro Ile Ile Pro Phe Ile Glu Gly	
	35 40 45
Asp Gly Ile Gly Val Asp Val Thr Pro Ala Met Leu Lys Val Val Asp	
	50 55 60
Ala Ala Val Glu Lys Ala Tyr Lys Gly Glu Arg Lys Ile Ser Trp Met	
	65 70 75 80
Glu Ile Tyr Thr Gly Glu Lys Ser Thr Gln Val Tyr Gly Gln Asp Val	
	85 90 95
Trp Leu Pro Ala Glu Thr Leu Asp Leu Ile Arg Asp Tyr Arg Val Ala	
	100 105 110
Ile Lys Gly Pro Leu Thr Thr Pro Val Gly Gly Gly Ile Arg Ser Leu	
	115 120 125
Asn Val Ala Leu Arg Gln Glu Leu Asp Leu Tyr Val Cys Leu Arg Pro	
	130 135 140
Val Arg Tyr Tyr Gln Gly Thr Pro Ser Pro Val Lys His Pro Glu Leu	
	145 150 155 160
Thr Asp Met Val Ile Phe Arg Glu Asn Ser Glu Asp Ile Tyr Ala Gly	
	165 170 175
Ile Glu Trp Lys Ala Asp Ser Ala Asp Ala Glu Lys Val Ile Lys Phe	
	180 185 190
Leu Arg Glu Glu Met Gly Val Lys Lys Ile Arg Phe Pro Glu His Cys	
	195 200 205
Gly Ile Gly Ile Lys Pro Cys Ser Glu Glu Gly Thr Lys Arg Leu Val	
	210 215 220
Arg Ala Ala Ile Glu Tyr Ala Ile Thr Asn Asp Arg Asp Ser Val Thr	
	225 230 235 240
Leu Val His Lys Gly Asn Ile Met Lys Phe Thr Glu Gly Ala Phe Lys	
	245 250 255
Asp Trp Gly Tyr Gln Leu Ala Thr Glu Glu Phe Gly Gly Glu Leu Ile	
	260 265 270
Asp Gly Gly Pro Trp Gln Lys Ile Lys Asn Pro Asn Thr Gly Lys Glu	
	275 280 285
Ile Ile Ile Lys Asp Val Ile Ala Asp Ala Phe Leu Gln Gln Ile Leu	
	290 295 300
Leu Arg Pro Ala Glu Tyr Asp Val Ile Ala Cys Met Asn Leu Asn Gly	
	305 310 315 320
Asp Tyr Ile Ser Asp Ala Leu Ala Ala Gln Val Gly Gly Ile Gly Ile	
	325 330 335
Ala Pro Gly Ala Asn Ile Gly Asp Glu Cys Ala Leu Phe Glu Ala Thr	
	340 345 350
His Gly Thr Ala Pro Lys Tyr Ala Gly Gln Asp Lys Val Asn Pro Gly	
	355 360 365
Ser Ile Ile Leu Ser Ala Glu Met Met Leu Arg His Met Glu Trp Phe	

370		375		380
Glu Ala Ala Asp Leu	Ile Val Lys Gly	Met Glu Gly Ala Ile Asn Ala		
385	390	395	400	
Lys Thr Val Thr Tyr Asp Phe Glu Arg	Leu Met Glu Gly Ala Lys Leu			
	405	410	415	
Leu Lys Cys Ser Glu Phe Gly Asp Ala Ile	Ile Ala Asn Met			
	420	425	430	

<210> 7053

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 7053

Gln Arg Glu Pro Glu Gly Ser Arg Phe	Leu Cys Thr Gln Asp Gly Asn
1	5 10 15
Asn Ala Met Thr His Asp Ile Pro Leu Lys Tyr Tyr Asp Ile Val Asp	
	20 25 30
Glu Tyr Ala Thr Glu Thr Ala Lys Pro Val Glu Glu Ala Glu Arg Thr	
	35 40 45
Pro Leu Ala His Tyr Phe Gln Leu Leu Leu Thr Arg Leu Tyr Asn Asn	
50	55 60
Glu Glu Ile Ser Glu Glu Ala Gln Arg Glu Met Ala Val Gln Ala Glu	
65	70 75 80
Ile Asp Glu Ala Arg Ile Asp Asp Ile Ala Asn Phe Leu Asn Gln Trp	
	85 90 95
Gly Asn Glu	
	100

<210> 7054

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 7054

Arg His Ile Asp Gly Asn Ile Pro Ala Ile Gly Phe Ile Ser His Val
1
5 10 15
Asp Thr Ser Pro Asp Phe Ser Gly Lys His Val Asn Pro Gln Ile Val
20 25 30
Glu Asn Tyr Arg Gly Gly Asp Ile Ala Leu Gly Ile Gly Asp Glu Val
35 40 45
Leu Ser Pro Val Met Phe Pro Val Leu His Gln Leu Leu Gly Gln Thr
50
55 60
Leu Ile Thr Thr Asp Gly Lys Thr Leu Leu Gly Ala Asp Asp Lys Ala
65
70 75 80
Gly Ile Ala Glu Ile Met Thr Ala Leu Ala Val Leu Lys Gly Lys Asn
85 90 95
Ile Pro His Gly Asp Ile Arg Val Ala Phe Thr Pro Asp Glu Glu Val
100 105 110
Gly Lys Gly Ala Lys His Phe Asp Val Glu Ala Phe Asn Ala Gln Trp
115 120 125
Ala Tyr Thr Val Asp Gly Gly Gly Val Gly Glu Leu Glu Tyr Glu Asn
130 135 140
Phe Asn Ala Ala Ser Val Thr Ile Lys Ile Val Gly Asn Asn Val His
145 150 155 160
Pro Gly Ser Ala Lys Gly Val Met Val Asn Ala Leu Ser Leu Ala Ala
165 170 175
Arg Ile His Ala Glu Val Pro Ala Glu Glu Ser Pro Glu Met Thr Glu
180 185 190
Gly Tyr Glu Gly Phe Tyr His Leu Thr Ser Ile Lys Gly Thr Val Asp
195 200 205

```

Ser Ala Gln Met His Tyr Ile Val Arg Asp Phe Asp Arg Lys Ala Phe
210          215          220
Glu Ala Arg Lys Arg Lys Met Met Glu Ile Ala Lys Lys Val Gly Lys
225          230          235
Gly Leu His Pro Asp Cys Tyr Ile Glu Leu Ile Ile Glu Asp Ser Tyr
245          250          255
Tyr Asn Met Arg Glu Lys Val Met Glu His Pro His Ile Leu Asp Ile
260          265          270
Ala Gln Gln Ala Met Arg Asp Cys Asp Ile Glu Pro Val Met Lys Pro
275          280          285
Ile Arg Gly Gly Thr Asp Gly Ser Gln Leu Ser Phe Met Gly Leu Pro
290          295          300
Cys Pro Asn Leu Phe Thr Gly Gly Tyr Asn Tyr His Gly Lys His Glu
305          310          315
Phe Val Thr Leu Glu Gly Met Glu Lys Ala Val Gln Val Ile Val Arg
325          330          335
Ile Ala Glu Leu Thr Ala Lys Arg
340          345

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<210> 7055

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 7055

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Phe Asn Asp Lys Asn His Thr Glu Arg Lys Ala Met Gly Ile Leu Ser
1          5          10          15
Trp Ile Ile Phe Gly Leu Ile Ala Gly Ile Leu Ala Lys Trp Ile Met
20          25          30
Pro Gly Lys Asp Gly Gly Gly Phe Ile Val Thr Ile Ile Leu Gly Ile
35          40          45
Val Gly Ala Val Val Gly Gly Trp Ile Ser Thr Leu Phe Gly Phe Gly
50          55          60
Arg Val Asp Gly Phe Asn Phe Gly Ser Phe Val Val Ala Val Ile Gly
65          70          75          80
Ala Leu Val Val Leu Phe Ile Tyr Arg Lys Ile Lys Ser
85          90

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<210> 7056

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 7056

```

Ala Ile Met Arg Gln Leu Ile Thr Pro Glu Asn Thr Met Thr Lys Thr
1          5          10          15
Ser Phe Arg Lys His Arg Val Glu Arg Phe Ser Ser Arg Gln Ala Thr
20          25          30
Arg Arg Thr Pro Glu Pro Gln Pro Thr Arg Val Ile Leu Phe Asn Lys
35          40          45
Pro Tyr Asp Val Leu Pro Gln Phe Thr Asp Glu Ala Gly Arg Ser Thr
50          55          60
Leu Lys Asp Phe Ile Pro Val Gln Gly Val Tyr Ala Ala Gly Arg Leu
65          70          75          80
Asp Arg Asp Ser Glu Gly Leu Leu Val Leu Thr Asn Asp Gly Val Leu
85          90          95
Gln Ala Arg Leu Thr Gln Pro Gly Lys Arg Thr Gly Lys Ile Tyr Tyr
100          105          110
Val Gln Val Glu Gly Glu Pro Asp Asp Ala Ser Leu Ala Lys Leu Arg
115          120          125
Asn Gly Val Thr Leu Asn Asp Gly Pro Thr Leu Pro Ala Gly Ile Glu

```

130		135		140
Arg Val Asn Glu Pro	Glu Trp Leu Trp	Pro Arg Asn Pro	Pro Ile Arg	
145	150	155	160	
Glu Arg Lys Ser Ile	Pro Thr Ser Trp	Leu Lys Ile Thr	Leu Tyr Glu	
	165	170	175	
Gly Arg Asn Arg Gln	Val Arg Arg Met	Thr Ala His Val	Gly Phe Pro	
	180	185	190	
Thr Leu Arg Leu Ile	Arg Tyr Ala Met	Gly Ser Tyr Thr	Leu Asp Ser	
	195	200	205	
Leu Ala Asn Gly Glu	Trp Arg Asp Val	Thr Pro Lys Glu	Asn	
210	215	220		

<210> 7057

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 7057

Thr Arg Gln Thr Cys	Ala Arg His Trp	Leu Arg Lys Ala	Ser Ala Ala
1	5	10	15
Gly Ser Leu Arg Arg	Ala Cys Arg Trp	Met Ser Leu Gln	Asn Leu Thr
	20	25	30
Gly Arg Leu Gln Arg	Val Ser Met Val	Gly Gly Arg Asp	Arg Ile Arg
	35	40	45
Arg Leu Glu Val Gln	Cys Arg Glu Tyr	Ser Met Ser Asp	Asn Ser Gln
	50	55	60
Lys Lys Val Ile Val	Gly Met Ser Gly	Gly Val Asp Ser	Ser Val Ser
	65	70	75
Ala Tyr Leu Leu Gln	Gln Gln Gly Tyr	Lys Val Glu Gly	Leu Phe Met
	85	90	95
Lys Asn Trp Glu Glu	Asp Asp Gly Glu	Tyr Cys Thr Ala	Ala Ala Ala
	100	105	110
Asp Leu Ala Asp Ala	Gln Ala Val Cys	Asp Lys Leu Gly	Ile Glu Leu
	115	120	125
His Thr Val Asn Phe	Ala Ala Glu Tyr	Trp Asp Asn Val	Phe Glu Leu
	130	135	140
Phe Leu Glu Glu Tyr	Lys Ala Gly Arg	Thr Pro Asn Pro	Asp Ile Leu
	145	150	155
Cys Asn Lys Glu Ile	Lys Phe Lys Ala	Phe Leu Glu Phe	Ala Ala Glu
	165	170	175
Asp Leu Gly Ala Asp	Tyr Ile Ala Thr	Gly His Tyr Val	Arg Arg Ala
	180	185	190
Asp Val Asn Gly Lys	Ser Gln Leu Leu	Arg Gly Leu Asp	Gly Asn Lys
	195	200	205
Asp Gln Ser Tyr Phe	Leu Tyr Thr Leu	Ser His Glu Gln	Ile Ala Gln
	210	215	220
Ser Leu Phe Pro Val	Gly Glu Leu Glu	Lys Pro Glu Val	Arg Lys Ile
	225	230	235
Ala Glu Asp Leu Asp	Leu Ile Thr Ala	Lys Lys Asp Ser	Thr Gly Gly
	245	250	255
Ile Cys Phe Ile Gly	Glu Arg Lys Phe	Arg Glu Phe Leu	Gly Arg Tyr
	260	265	270
Leu Pro Ala Gln Pro	Gly Lys Ile Val	Thr Val Asp Gly	Asp Glu Ile
	275	280	285
Gly Gln His Gln Gly	Leu Met Tyr His	Thr Leu Gly Gln	Arg Lys Gly
	290	295	300
Leu Gly Ile Gly Gly	Thr Lys Glu Gly	Ser Glu Asp Pro	Trp Tyr Val
	305	310	315
Val Asp Lys Asp Val	Glu Asn Asn Ile	Leu Val Val Ala	Gln Gly His
	325	330	335
Asp His Pro Arg Leu	Met Ser Val Gly	Leu Ile Ala Gln	Gln Leu His

```

          340          345          350
Trp Val Asp Arg Glu Pro Leu Glu Gly Thr Leu Arg Cys Thr Val Lys
          355          360          365
Thr Arg Tyr Arg Gln Thr Asp Ile Pro Cys Thr Val Thr Ala Leu Asp
          370          375          380
Asp Asp Arg Ile Asp Val Arg Phe Asp Glu Pro Val Ser Ala Val Thr
385          390          395          400
Pro Gly Gln Ser Ala Val Phe Tyr Ser Gly Glu Ile Cys Leu Gly Gly
          405          410          415
Gly Ile Ile Glu Gln Arg Leu Pro Leu Pro Ala Val
          420          425

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<210> 7058

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 7058

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Thr Val Cys Thr His Lys Gly Asp Arg Val Ala Lys Asn Tyr Tyr Asp
1          5          10          15
Ile Thr Leu Ala Leu Ala Gly Ile Cys Gln Ser Ala Arg Leu Val Gln
          20          25          30
Gln Leu Ala His Gln Gly His Cys Asp Ala Asp Ala Leu His Val Ser
          35          40          45
Leu Asn Ser Val Ile Asp Leu Asn Pro Gly Ser Thr Leu Gly Val Phe
          50          55          60
Gly Gly Ser Glu Thr Asn Leu Arg Leu Gly Leu Glu Thr Leu Leu Gly
65          70          75          80
Val Leu Asn Ala Ser Asn Arg Gln Gly Leu Asn Ala Glu Leu Thr Arg
          85          90          95
Tyr Thr Leu Ser Leu Met Val Leu Glu Arg Lys Leu Asn Ala Ala Lys
          100          105          110
Gly Ala Met Asn Thr Leu Gly Asp Arg Ile Ala Gly Leu Gln Arg Gln
          115          120          125
Leu Asp His Phe Asp Leu Gln Ser Glu Thr Leu Leu Ser Ala Met Ala
          130          135          140
Gly Ile Tyr Val Asp Val Ile Ser Pro Leu Gly Pro Arg Ile Gln Val
145          150          155          160
Thr Gly Ser Pro Ala Val Leu Gln Ser Pro Gln Val Gln Ala Lys Val
          165          170          175
Arg Ala Ser Leu Leu Ala Gly Ile Arg Ala Ala Val Leu Thr Gln Gln
          180          185          190
Val Gly Gly Gly Arg Leu Gln Leu Met Phe Ser Arg His Arg Leu Thr
          195          200          205
Thr Gln Ala Lys Gln Ile Leu Ala His Cys
          210          215

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<210> 7059

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 7059

```

Glu Pro Ala Glu Tyr Ile Asn Met Asp Tyr Gln Leu Thr Leu Asn Trp
1          5          10          15
Pro Asp Phe Ile Glu Arg Tyr Trp Gln Lys Arg Pro Val Val Leu Lys
          20          25          30
Arg Gly Ile Ser Asn Phe Ile Asp Pro Ile Ser Pro Asp Glu Leu Ala
          35          40          45
Gly Leu Ala Met Glu Asn Glu Val Asp Ser Arg Leu Val Ser His Gln
          50          55          60

```

```

Asp Gly Lys Trp Gln Val Ser His Gly Pro Phe Glu Ser Tyr Asp His
65      70      75      80
Leu Gly Glu Asn Asn Trp Ser Leu Leu Val Gln Ala Val Asn Asn Trp
      85      90      95
His Glu Pro Thr Ala Ala Leu Met Arg Pro Phe Arg Ala Leu Pro Asp
      100      105      110
Trp Arg Met Asp Asp Leu Met Ile Ser Phe Ser Val Pro Gly Gly Gly
      115      120      125
Val Gly Pro His Leu Asp Gln Tyr Asp Val Phe Ile Ile Gln Gly Thr
      130      135      140
Gly Arg Arg Arg Trp Arg Val Gly Glu Lys Val Pro Met Lys Gln His
145      150      155      160
Cys Pro His Pro Asp Leu Leu Gln Val Asp Pro Phe Glu Gly Ile Ile
      165      170      175
Asp Glu Glu Leu Glu Pro Gly Asp Ile Leu Tyr Ile Pro Pro Gly Phe
      180      185      190
Pro His Glu Gly Tyr Ser Leu Glu Asn Ser Leu Asn Tyr Ser Val Gly
      195      200      205
Phe Arg Ala Pro Ser Gly Arg Glu Met Ile Ser Gly Phe Ala Asp Tyr
210      215      220
Val Leu Gln Arg Glu Leu Gly Ser Tyr Arg Tyr Ser Asp Pro Asp Val
225      230      235      240
Pro Ala Arg Glu His Pro Ala Asp Ile Leu Pro Glu Glu Leu Asp Lys
      245      250      255
Leu Arg Gly Met Met Leu Asp Leu Ile Asn Glu Pro Glu His Phe Arg
      260      265      270
Gln Trp Phe Gly Glu Phe Ile Ser Gln Ser Arg His Glu Leu Asp Val
      275      280      285
Ala Pro Pro Glu Pro Pro Tyr Gln Ala Asp Glu Ile Tyr Asp Ala Leu
290      295      300
Gln Gln Gly Asp Lys Leu Val Arg Leu Gly Gly Leu Arg Val Leu Arg
305      310      315      320
Ile Gly Glu Glu Val Phe Val Asn Gly Glu Arg Leu Asp Ser Pro His
      325      330      335
Arg Pro Ala Leu Glu Ser Ile Ala Ser Gln Met Val Leu Thr Ala Asp
      340      345      350
Thr Phe Gly Asp Ala Leu Asp Asp Pro Ser Phe Leu Ala Met Leu Ala
      355      360      365
Ala Leu Val Asn Ser Gly Tyr Trp Phe Phe Glu Asp
370      375      380

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<210> 7060

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 7060

```

Arg Leu Arg Gln Asn Lys Phe Leu Leu Ile Val Asn Leu Pro Glu Leu
1      5      10      15
Arg Ile Met Glu Leu Ser Ser Leu Thr Ala Val Ser Pro Val Asp Gly
      20      25      30
Arg Tyr Gly Asp Lys Val Ser Ala Leu Arg Gly Ile Phe Ser Glu Tyr
      35      40      45
Gly Leu Leu Lys Phe Arg Val Gln Val Glu Val Arg Trp Leu Gln Lys
      50      55      60
Leu Ala Ala Gln Thr Ala Ile Lys Glu Val Pro Ala Phe Asp Ala Lys
65      70      75      80
Ala Asn Asp Tyr Leu Asp Lys Ile Val Ala Glu Phe Ser Glu Glu Asp
      85      90      95
Ala Ala Arg Ile Lys Thr Ile Glu Arg Thr Thr Asn His Asp Val Lys
      100      105      110

```

Ala Val Glu Tyr Phe Leu Lys Glu Lys Val Ala Cys Val Pro Ala Leu
 115 120 125
 His Ala Val Ser Glu Phe Ile His Phe Ala Cys Thr Ser Glu Asp Ile
 130 135 140
 Asn Asn Leu Ser His Ala Leu Met Leu Phe Thr Ala Arg Lys Glu Val
 145 150 155 160
 Val Leu Pro Tyr Trp Arg Lys Ile Ile Asp Ala Val Lys Ala Leu Ser
 165 170 175
 Val Glu Tyr Arg Asp Ile Pro Leu Leu Ser Arg Thr His Gly Gln Pro
 180 185 190
 Ala Thr Pro Ser Thr Met Gly Lys Glu Met Ala Asn Val Ala Tyr Arg
 195 200 205
 Met Glu Arg Gln Tyr Arg Gln Leu Glu Gln Val Glu Ile Leu Gly Lys
 210 215 220
 Ile Asn Gly Ala Val Gly Asn Tyr Asn Ala His Ile Ala Ala Tyr Pro
 225 230 235 240
 Glu Val Asp Trp His Gln Phe Ser Glu Glu Phe Val Thr Ser Leu Gly
 245 250 255
 Ile Gln Trp Asn Pro Tyr Thr Thr Gln Ile Glu Pro His Asp Tyr Ile
 260 265 270
 Ala Glu Leu Phe Asp Cys Ile Ala Arg Phe Asn Thr Ile Leu Ile Asp
 275 280 285
 Phe Asp Arg Asp Val Trp Gly Tyr Ile Ala Leu Asn His Phe Lys Gln
 290 295 300
 Lys Thr Ile Ala Gly Glu Ile Gly Ser Ser Thr Met Pro His Lys Val
 305 310 315 320
 Asn Pro Ile Asp Phe Glu Asn Ser Glu Gly Asn Leu Gly Leu Ala Asn
 325 330 335
 Ala Val Leu Gln His Met Ala Ser Lys Leu Pro Val Ser Arg Trp Gln
 340 345 350
 Arg Asp Leu Thr Asp Ser Thr Val Leu Arg Asn Leu Gly Val Gly Ile
 355 360 365
 Gly Tyr Ala Leu Ile Ala Tyr Gln Ser Tnr Leu Lys Gly Val Ser Lys
 370 375 380
 Leu Glu Val Asn Arg Asp Arg Leu Leu Asp Glu Leu Asp His Asn Trp
 385 390 395 400
 Glu Val Leu Ala Glu Pro Ile Gln Thr Val Met Arg Arg Tyr Gly Ile
 405 410 415
 Glu Lys Pro Tyr Glu Lys Leu Lys Glu Leu Thr Arg Gly Lys Arg Val
 420 425 430
 Asp Ala Glu Gly Met Lys Gln Phe Ile Asp Gly Leu Ala Leu Pro Glu
 435 440 445
 Glu Glu Lys Ala Arg Leu Lys Glu Met Thr Pro Ala Asn Tyr Ile Gly
 450 455 460
 Arg Ala Ile Thr Met Val Asp Glu Leu Lys
 465 470 475

<210> 7061

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7061

Arg Arg Arg Leu Leu Ala Gly Leu Gly Gly Asp Glu Ile Leu Val Ala
 1 5 10 15
 Arg Leu Ser His Ser Asp Asp Asp Asp Thr Arg Thr Glu Ile Asn Ala
 20 25 30
 Ile Lys Thr Arg Leu Asn Gly Leu Ile Ala Gly Glu Tyr Gly Leu Gly
 35 40 45
 Asn Ala Thr Ile Leu Tyr Pro Gly Ala Ser Leu Gly Val Val Ile Val
 50 55 60

Asp Pro His Ser Thr Asp Glu Asp Ser Ala Leu Arg Thr Ala Asp Leu
 65 70 75 80
 Ala Met Tyr Gln Asp Lys Lys Gly Lys Ser Lys Thr Gly Phe Val Ala
 85 90 95
 Leu Asp

<210> 7062

<211> 516

<212> PRT

<213> *Enterobacter cloacae*

<400> 7062

Pro Val Ile Arg Ser Leu His Leu Arg Thr Trp Arg Asp Ser Arg Lys
 1 5 10 15
 Met Lys Lys Ala Ile Ala Val Ala Ile Ser Thr Leu Met Val Val
 20 25 30
 Leu Ser Leu Tyr Ala Val Asn Ala Ile Ile Ala Glu Gln Gln Lys Asn
 35 40 45
 Arg Gln Arg Glu Ile Ser His Thr Leu Leu Ser Tyr Ser Glu Glu Leu
 50 55 60
 Thr Gln Asn Ile Ala Ser Thr Leu Lys Asn Thr Thr Val Gln Gly Cys
 65 70 75 80
 Asp Ser Ala Ser Leu Asn Val Tyr Arg Lys Leu Lys Met Arg Ser Leu
 85 90 95
 Tyr Phe Ala Asp Val Gly Phe Ile Glu Lys Gly Lys Ile Thr Cys Thr
 100 105 110
 Ala Phe Trp Gly Lys Leu Ala Asn Pro Ile Ala Leu Pro Pro Glu Leu
 115 120 125
 His Lys Thr His Asn Gly Phe Ser Leu Ala Gln Phe Ser Gln Lys Asp
 130 135 140
 Phe Phe Ile Gly Asn Ala Thr Ile Tyr Asn His Leu Ile Ile Phe Thr
 145 150 155 160
 Ser Arg Ser Ala Tyr Asp Lys Phe Ala Pro Val Thr Ala Asn Tyr Ser
 165 170 175
 Leu Arg Ser Ser Thr Lys Asp Phe Gly Arg Thr Phe Phe Thr Val Thr
 180 185 190
 Pro Pro Ser Glu Asn Phe Ser Arg Leu Gln Ser Leu Leu Phe Thr Leu
 195 200 205
 Ala Val Thr Glu Cys Ser Thr Arg Trp Asp Leu Cys Val Thr Val Thr
 210 215 220
 His His Asp Ala Gly Leu Ala Ser Leu Ser His Val Val Met Val Leu
 225 230 235 240
 Leu Cys Leu Phe Leu Tyr Phe Ile Trp Val Ser Leu Thr Leu Phe Ser
 245 250 255
 Leu Arg Leu Tyr Glu Asp Arg Arg Ser Leu Glu Arg Thr Leu Val Lys
 260 265 270
 Ala Val Lys Ala Asn Thr Ile Ser Val His Phe Gln Pro Val Ile Arg
 275 280 285
 Val Ala Asp Lys Lys Ile Val Gly Val Glu Val Leu Ser Arg Trp Gln
 290 295 300
 Asp Asn Asn His Lys Glu Val Ser Pro Glu Leu Phe Ile Pro Leu Ile
 305 310 315 320
 Lys Lys Ile Gly Leu Tyr Asn Val Tyr Tyr Gln Asn Met Ile Lys Lys
 325 330 335
 Ser Leu Ala Glu Ile Ala Ala Leu Ala Ala Glu His Gln Leu Met Ile
 340 345 350
 Ser Leu Asn Val Gly Arg Thr Glu Ile Glu Asp Gly Lys Phe Leu Ser
 355 360 365
 Val Leu Arg His Ala Cys Ser Glu Asn Ala Ile Pro Leu Ser Leu Ile
 370 375 380

Lys Val Glu Leu Ser Glu Asn Gly Val Ser Thr Ser Ala Ile Leu Glu
 385 390 395 400
 Glu Phe Cys Glu Glu Leu Lys Ser Ala Gly Val Lys Ile Ser Ile Asp
 405 410 415
 Asp Phe Gly Val Gln Asn Ser Asn Leu Ala Arg Leu Thr Asn Leu Lys
 420 425 430
 Tyr Asp Glu Ile Lys Val Asp Lys Ser Leu Val Asp Gly Ile Ser Glu
 435 440 445
 His Tyr Lys Gln Asp Ile Leu Val Ile Phe Ser Asp Ala Leu Ala Lys
 450 455 460
 Leu Asn Lys Thr Leu Val Phe Glu Gly Val Glu Ser Glu Thr Gln Phe
 465 470 475 480
 Gln Phe Ile Ala Gln Arg Tyr Pro Asp Ala Leu Val Gln Gly Trp Tyr
 485 490 495
 Phe Ser Lys Ser Leu Thr Arg His Asp Leu Ala Arg Leu Ala Asp
 500 505 510
 Ser Ala Arg
 515

<210> 7063

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 7063

Gly Glu Leu Met Phe Lys Pro His Val Thr Val Ala Cys Val Val His
 1 5 10 15
 Ala Gln Gly Lys Phe Leu Val Val Glu Thr Ile Asn Gly Lys Ala
 20 25 30
 Leu Trp Asn Gln Pro Ala Gly His Leu Glu Ala Asn Glu Thr Leu Leu
 35 40 45
 Gln Ala Ala Lys Arg Glu Leu Trp Glu Glu Thr Gly Ile Arg Ala Glu
 50 55 60
 Pro Gln His Phe Ile Arg Met His Gln Trp Ile Ala Pro Asp Gln Thr
 65 70 75 80
 Pro Phe Leu Arg Phe Leu Phe Ala Val Glu Leu Asn Glu Thr Cys Ala
 85 90 95
 Thr Glu Pro His Asp Asp Ile Asp Arg Cys Leu Trp Val Thr Ala
 100 105 110
 Glu Glu Ile Leu Asn Ala Pro Asn Leu Arg Ser Pro Leu Val Ala Glu
 115 120 125
 Ser Ile Arg Cys Trp Gln Ser Thr Ala Arg Leu Pro Leu Asp Val Ile
 130 135 140
 Ala Glu Phe Asn Trp Pro Phe Thr Glu Gly Val Asn Gly Gly Gly Ala
 145 150 155 160

<210> 7064

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 7064

Ile Ile Ser Val Lys Leu Phe Ile Pro Phe Ile Lys Gly Glu Met Met
 1 5 10 15
 Met Arg Val Leu Val Val Glu Asp Asn Ala Leu Leu Arg His His Leu
 20 25 30
 Lys Val Gln Leu Gln Glu Met Val His Gln Val Asp Asp Ala Glu Asp
 35 40 45
 Ala Lys Glu Ala Asp Tyr Tyr Leu Asn Glu His Leu Pro Asp Ile Ala

50		55		60
Ile Val Asp Leu Gly	Leu Pro Asp Glu	Asp Gly	Leu Ser Leu Ile Arg	
65	70	75	80	
Arg Trp Arg Ser His Asp Val Ser Leu	Pro Val Leu Val Leu Thr Ala			
85	90	95		
Arg Glu Gly Trp Gln Asp Lys Val Glu Val Leu Ser Ala Gly Ala Asp				
100	105	110		
Asp Tyr Val Thr Lys Pro Phe His Ile Glu Glu Val Ala Ala Arg Met				
115	120	125		
Gln Ala Leu Leu Arg Arg Asn Ser Gly Leu Ala Ser Gln Val Ile Ser				
130	135	140		
Leu Pro Pro Phe Gln Val Asp Leu Ser Arg Arg Glu Phe Ser Ile Asn				
145	150	155		
Asp Glu Val Ile Lys Leu Thr Ala Phe Glu Tyr Thr Ile Met Glu Thr				
165	170	175		
Leu Ile Arg Asn Asn Gly Lys Val Val Ser Lys Asp Ser Leu Met Leu				
180	185	190		
Gln Leu Tyr Pro Asp Ala Glu Leu Arg Glu Ser His Thr Ile Asp Val				
195	200	205		
Leu Met Gly Arg Leu Arg Lys Lys Ile Gln Ala Gln Tyr Pro His Asp				
210	215	220		
Val Ile Thr Thr Val Arg Gly Gln Gly Tyr Leu Phe Glu Leu Arg				
225	230	235		240

<210> 7065

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 7065

Met Lys Gly Ile Leu Arg His Ile Leu Pro Leu Ser Leu Arg Val Arg	
1	5
Phe Leu Leu Ala Thr Ala Ala Val Val Leu Val Leu Ser Leu Ser Tyr	
20	25
Gly Met Val Ala Leu Val Gly Tyr Ser Val Ser Phe Asp Lys Thr Thr	
35	40
Phe Arg Leu Leu Arg Gly Glu Ser Asn Leu Phe Tyr Thr Leu Ala Lys	
50	55
Trp Glu Asn Asn Arg Ile Thr Val Glu Met Pro Glu Asn Leu Asn Gln	
65	70
Gln Ser Pro Thr Leu Ala Leu Ile Tyr Asp Glu Lys Gly Lys Leu Leu	
85	90
Trp Ala Gln Arg Asp Val Pro Trp Leu Lys Lys Arg Ile Arg Pro Glu	
100	105
Trp Leu Lys Thr Asn Gly Phe His Glu Ile Glu Ala Asp Leu Asn Ser	
115	120
Thr Ser Ser Leu Leu Arg Asp Asp Arg Ala Leu Gln Ile Lys Leu Asn	
130	135
Glu Ile Arg Ala Glu Asp Asp Thr Glu Met Thr His Ser Val Ala	
145	150
Ile Asn Leu Tyr Pro Ala Thr Leu Asn Met Pro Gln Leu Thr Ile Val	
165	170
Val Ile Asp Thr Ile Pro Val Glu Leu Lys Arg Ser Tyr Met Val Trp	
180	185
Asn Trp Phe Val Tyr Val Leu Ala Ala Asn Leu Leu Val Ile Pro	
195	200
Leu Leu Trp Val Ala Ala Trp Trp Ser Leu Arg Pro Ile Glu Ser Leu	
210	215
Ala Lys Glu Val Arg Glu Leu Glu Glu His His Arg Glu Lys Leu Asn	
225	230
Pro Glu Thr Thr Arg Glu Leu Thr Ser Leu Val Arg Asn Leu Asn Arg	
	235
	240

245 250 255
 Leu Leu Lys Ser Glu Arg Glu Arg Tyr Asp Lys Tyr Arg Thr Thr Leu
 260 265 270
 Thr Asp Leu Thr His Ser Leu Lys Thr Pro Leu Ala Val Met Gln Ser
 275 280 285
 Thr Leu Arg Ser Met Arg Ser Ser Lys Met Ser Val Asp Asp Ala Glu
 290 295 300
 Pro Val Ile Leu Glu Gln Ile Ser Arg Ile Ser Gln Gln Ile Gly Tyr
 305 310 315 320
 Tyr Leu His Arg Ala Ser Met Arg Ser Gly Ser Ala Leu Leu Ser Arg
 325 330 335
 Glu Leu His Pro Val Ala Pro Leu Leu Asp Asn Leu Thr Ser Ala Leu
 340 345 350
 Asn Lys Val Tyr Gln Arg Lys Gly Val Asn Ile Ser Leu Asp Ile Ser
 355 360 365
 Pro Glu Ile Ser Phe Val Gly Glu Lys Asn Asp Phe Met Glu Val Met
 370 375 380
 Gly Asn Leu Leu Asp Asn Ala Cys Lys Tyr Cys Leu Glu Phe Val Glu
 385 390 395 400
 Val Ser Ala Arg Val Thr Asp Asn Glu Leu His Ile Ile Val Glu Asp
 405 410 415
 Asp Gly Pro Gly Ile Pro Arg Asn Lys Arg Glu Val Val Phe Asp Arg
 420 425 430
 Gly Gln Arg Ala Asp Thr Leu Arg Pro Gly Gln Gly Val Gly Leu Ser
 435 440 445
 Val Ala Arg Glu Ile Val Asp Gln Tyr Glu Gly Lys Ile Glu Thr Gly
 450 455 460
 Glu Ser Leu Leu Gly Gly Ala Arg Met Glu Val Ile Phe Gly Arg Gln
 465 470 475 480
 His Pro Val Ser Asn Asp Ser
 485

<210> 7066

<211> 477

<212> PRT

<213> Enterobacter cloacae

<400> 7066

Pro Arg Cys Gln Ile Ser Gln Leu Leu Thr Phe Ser Ser Trp Leu Thr
 1 5 10 15
 Leu Phe Thr Glu His Leu Lys Asn Lys Pro Tyr Thr Gly Lys Val Asn
 20 25 30
 Thr Met Thr Glu Ile Ile Thr Arg Lys Glu Lys Ile Ser Tyr Gly Leu
 35 40 45
 Gly Asp Met Ala Ser His Ile Gly Leu Asp Asn Val Ile Ile Phe Leu
 50 55 60
 Thr Phe Tyr Tyr Thr Asp Val Val Gly Leu Pro Ala Ala Phe Val Gly
 65 70 75 80
 Thr Met Phe Leu Leu Ala Arg Thr Ala Asp Ala Ile Ile Asp Pro Ala
 85 90 95
 Met Gly Tyr Ile Ala Asp Arg Thr Arg Thr Arg Trp Gly Lys Phe Arg
 100 105 110
 Pro Trp Met Leu Trp Leu Ala Leu Pro Phe Gly Ala Ser Cys Leu Leu
 115 120 125
 Thr Tyr Ala Val Pro Ala Ser Leu Asp Leu His Gly Lys Met Ile Phe
 130 135 140
 Ala Thr Val Ser Tyr Thr Leu Met Met Leu Met Tyr Thr Ala Ile Asn
 145 150 155 160
 Ile Pro Tyr Cys Ser Met Gly Ala Val Ile Thr Pro Asp Asn Asp Ala
 165 170 175
 Arg Ile Ser Leu Gln Ser Tyr Arg Phe Phe Leu Ala Thr Leu Gly Gly

180 185 190
 Ala Leu Ser Thr Phe Phe Met Met Pro Leu Ala Glu Phe Leu Gly Gly
 195 200 205
 Asp Asp Lys Leu Leu Gly Tyr Arg Trp Ala Met Ala Ile Met Ala Thr
 210 215 220
 Val Ala Val Val Met Phe Trp Ile Cys Phe Ala Asn Thr Arg Glu Arg
 225 230 235 240
 Ile Lys Ala Pro Ala Thr His Asn Asn Tyr Leu Ala Glu Leu Arg Asp
 245 250 255
 Leu Leu Arg Asn Asp Gln Trp Arg Ile Val Ala Val Leu Val Leu Thr
 260 265 270
 Asn Ile Gly Phe Gly Val Ile Arg Leu Gly Ala Met Met Tyr Phe Val
 275 280 285
 Thr Tyr Tyr Leu Gly Ser Ala Ser Tyr Phe Met Trp Met Leu Gly Ala
 290 295 300
 His Ile Leu Gly Lys Ala Ala Gly Ser Ala Leu Ala Lys Arg Leu Thr
 305 310 315 320
 Gln Asn Val Ser Lys Val Gln Met Phe Gly Tyr Cys Ser Val Leu Ala
 325 330 335
 Gly Val Leu Ser Ile Ala Leu Phe Phe Ala Pro Lys Ser Val Leu Ile
 340 345 350
 Leu Val Pro Met Thr Phe Ile Val Ser Thr Leu Tyr Gln Ala Thr Thr
 355 360 365
 Thr Leu Met Trp Val Met Met Ala Asp Val Ala Asp Tyr Gly Glu Trp
 370 375 380
 Lys Gln Gly Lys Arg Met Asp Gly Val Ile Phe Ser Thr Phe Leu Ala
 385 390 395 400
 Val Leu Lys Leu Gly Met Ala Ile Ser Gly Ala Ile Val Gly Trp Thr
 405 410 415
 Leu Gly Leu Ser Gly Tyr Val Ala Asn Ala Pro Glu Gln Thr Asn Thr
 420 425 430
 Ala Met Tyr Cys Ile Ile Ala Leu Phe Thr Val Val Pro Gly Val Leu
 435 440 445
 Ser Leu Cys Ala Phe Ala Thr Leu Arg Trp Tyr Lys Leu Asp Asp Ser
 450 455 460
 Thr Met Gln Ser Ile His Leu Ala Lys His Pro Val
 465 470 475

<210> 7067

<211> 684

<212> PRT

<213> *Enterobacter cloacae*

<400> 7067

Lys Asp Ala Leu Ser Met Ser Glu Leu Ile Gln His Ser Asn Ser Ile
 1 5 10 15
 Glu Trp Arg Phe Glu Arg Gln Ile Leu Arg Ile Glu Pro Trp Gly Glu
 20 25 30
 Asn Ser Leu Arg Val Arg Ala Thr Cys Ser Pro Ala Phe Glu Asp Ala
 35 40 45
 Leu Gln Ala Leu Leu Pro Ala Ala Pro Cys Gln Ala Glu Ile Ile Ala
 50 55 60
 Glu Ala Glu Ser Leu Thr Leu Arg Asn Gly Asn Ile Thr Ala Thr Leu
 65 70 75 80
 Asn Leu Lys Gly Gln Leu Ala Phe Tyr Asn Gln Arg Gly Glu Leu Leu
 85 90 95
 Leu Glu Glu Met Trp Arg Gln Arg Ser Thr Val Gly Ile Gly Ala Ser
 100 105 110
 Glu Lys Ser Gln Asp Lys Tyr Val Ser Ala Leu Lys Leu Asp Gly Arg
 115 120 125
 Glu Phe Lys Pro Leu Met Gly Gly Lys Tyr Gln Leu Thr Val Arg Phe

130 135 140
 Glu Ser Arg Pro Asp Glu Arg Ile Tyr Gly Met Gly Gln Tyr Gln Gln
 145 150 155 160
 Pro Trp Leu Asp Leu Lys Gly Cys Thr Leu Glu Leu Ala Gln Arg Asn
 165 170 175
 Ser Gln Ala Ser Val Pro Phe Met Gln Ser Ser Leu Gly Tyr Gly Leu
 180 185 190
 Leu Trp Asn Asn Pro Ala Ile Gly Glu Ala Ser Phe Ala Lys Asn Gln
 195 200 205
 Thr Glu Trp Arg Ala Arg Val Thr Gly Glu Met Asp Tyr Trp Ile Thr
 210 215 220
 Ala Ala Asp Thr Val Ala Asp Ile Thr Arg Gln Tyr Val Lys Ala Thr
 225 230 235 240
 Gly Thr Pro Pro Ala Ala Pro Ala Phe Ile Ser Gly Leu Trp Gln Cys
 245 250 255
 Lys Leu Arg Tyr Arg Thr Gln Gln Glu Val Leu Glu Val Ala Arg Glu
 260 265 270
 Tyr Arg Arg Arg Asn Leu Pro Leu Ser Val Met Val Ile Asp Phe Phe
 275 280 285
 His Trp Pro Asn Gln Gly Thr Trp Cys Phe Asp Pro Val Asp Trp Pro
 290 295 300
 Asp Pro Glu Gly Met Val Asp Glu Leu Arg Glu Met Gly Ile Ala Leu
 305 310 315 320
 Met Val Ser Val Trp Pro Thr Val Glu Ala Arg Ser Pro Leu Tyr Pro
 325 330 335
 Leu Met Lys Ala Lys Gly Trp Leu Val Ser Ser Glu Arg Gly Val Gln
 340 345 350
 Val Asn Leu Asp Phe Met Gly Asn Thr Thr Phe Phe Asp Ala Thr His
 355 360 365
 Pro Glu Ala Arg Lys Phe Val Trp Asp Thr Val Lys Lys Asn Tyr Tyr
 370 375 380
 Asp Met Gly Ile Lys Leu Phe Trp Leu Asp Glu Ala Glu Pro Glu Tyr
 385 390 395 400
 Arg Ala Tyr Asp Phe Asp Asn Tyr Arg Tyr His Ala Gly Pro Val Leu
 405 410 415
 Glu Val Gly Asn Arg Tyr Pro Arg Asp Phe Ala Gln Gly Phe Tyr Asp
 420 425 430
 Gly Leu Gln Ala Asn Gly Glu Thr Asp Ile Val Asn Leu Val Arg Cys
 435 440 445
 Ala Trp Ala Gly Ser Gln Arg Phe Gly Val Leu Ala Trp Ser Gly Asp
 450 455 460
 Val His Ser Ser Phe His Ala Phe Arg Asn Gln Leu Ala Ala Gly Leu
 465 470 475 480
 Asn Met Gly Leu Ala Gly Ile Pro Trp Trp Thr Thr Asp Ile Gly Gly
 485 490 495
 Phe Gln Gly Gly Asn Val Asn Asp Pro Ala Phe His Glu Leu Leu Ile
 500 505 510
 Arg Trp Phe Gln Trp Ala Val Phe Thr Pro Val Leu Arg Met His Gly
 515 520 525
 Tyr Arg Glu Pro Gln Ile Gln Pro Pro Glu Arg Tyr Arg Asp Gly Ile
 530 535 540
 Pro Gln Cys Asn Ser Gly Ser Pro Asn Glu Leu Trp Ser Tyr Gly Glu
 545 550 555 560
 Glu Asn Tyr Ala Ile Met Gln Arg Trp Leu Thr Val Arg Glu Thr Leu
 565 570 575
 Arg Pro Tyr Ile Asp Ala Leu Tyr Gln Gln Ala His Leu His Gly Asp
 580 585 590
 Pro Leu Met Arg Pro Leu Phe Trp His Tyr Pro Gln Asp Lys Gln Ser
 595 600 605
 Trp Ala Cys Glu Asp Gln Tyr Leu Phe Gly Glu Asp Leu Leu Val Ala
 610 615 620

Pro Val Met Gln Ala Gly Gln Arg Glu Arg Asp Val Trp Leu Pro Thr
 625 630 635 640
 Gly Asn Ser Trp Val Ala Leu Asn Gly Glu Arg Tyr Ala Gly Gly Glu
 645 650 655 660
 His Ile Arg Val Pro Ala Ala Leu Glu Thr Ile Pro Val Phe Ile Arg
 660 665 670
 Glu Gly Ser Pro Leu Ile Gln Gln Leu Val Asp
 675 680

<210> 7068

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 7068

Ile Gly Trp Ile Lys Ala Gly Cys Tyr Ser Val Leu Ala Glu Arg Arg
 1 5 10 15
 Thr Ala Gly Gly Lys Arg Met Ile Gln Cys Lys Arg Val Tyr Glu Gln
 20 25 30
 Ala Thr Ser Asp Asp Gly Tyr Arg Val Leu Val Asp Arg Leu Trp Pro
 35 40 45
 Arg Gly Ile Lys Lys Thr Asp Leu Ala Cys Asp Glu Trp Cys Lys Ser
 50 55 60
 Leu Thr Pro Ser Ser Glu Leu Arg Lys Ala Phe His Ser Glu Thr Ile
 65 70 75 80
 Asp Phe Thr Ala Phe Ser Glu Ala Tyr Arg Lys Glu Leu Ala Gln His
 85 90 95
 Gln Asp Glu Gly Lys Arg Leu Ala Ala Leu Ala Arg Gln Gln Thr Val
 100 105 110
 Thr Leu Leu Tyr Gly Ala Lys Asn Arg Glu Gln Asn His Ala Arg Val
 115 120 125
 Leu Ala Asp Trp Leu Arg Lys Leu
 130 135

<210> 7069

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 7069

Ser Gly Glu Lys Arg Met Gly Gln Leu Val Thr Leu His Glu Trp Ala
 1 5 10 15
 Ser Gly Pro Asn Gly Phe Lys Tyr Pro Leu Ser Asn Ser Ala Leu Asn
 20 25 30
 Lys Ile Ala Lys Thr Lys Gln Thr Tyr Pro Pro Ala Leu Lys Gln Gly
 35 40 45
 Arg Arg Trp Val Ile Asp Glu Asp Ala Arg Phe Val Gly Met Val Gly
 50 55 60
 Ser Val Asp Ile Ser Ser Ser Leu Ser Asp Lys Ala Arg Gln Leu Val
 65 70 75 80
 Glu Lys Ala Ile Asn Gly Ser Ser Pro Gln Lys Thr
 85 90

<210> 7070

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 7070

Ser Leu Pro Ala Asp Ala Phe Ala Arg Lys Val Ser Arg Leu Thr Ile
 1 5 10 15

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Phe Gly Lys Asp Pro Val Met Phe Asp Pro Thr Leu Leu Ile Leu Leu
      20      25      30
Ala Leu Ala Ala Leu Gly Phe Val Ser His Asn Thr Thr Val Ala Ile
      35      40      45
Ser Ile Leu Val Leu Ile Ile Val Arg Val Thr Pro Leu Asn Thr Phe
      50      55      60
Phe Pro Trp Ile Glu Lys Gln Gly Leu Thr Ile Gly Ile Ile Ile Leu
      65      70      75      80
Thr Ile Gly Val Met Ala Pro Ile Ala Ser Gly Thr Leu Pro Ala Ser
      85      90      95
Thr Leu Leu His Ser Phe Val Asn Trp Lys Ser Leu Val Ala Ile Ala
      100      105      110
Val Gly Val Phe Val Ser Trp Leu Gly Gly Arg Gly Val Thr Leu Met
      115      120      125
Ser Ser Gln Pro Ser Leu Val Ala Gly Leu Leu Val Gly Thr Val Leu
      130      135      140
Gly Val Ala Leu Phe Arg Gly Val Pro Val Gly Pro Leu Ile Ala Ala
      145      150      155      160
Gly Leu Val Ser Leu Phe Ile Gly Lys Ser
      165      170

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<210> 7071

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 7071

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Pro Leu Pro His Pro Leu Ser Glu Glu Ser Ile Lys Leu Ile Leu Phe
1      5      10      15
Met Phe Tyr Tyr Asp Arg Ser Leu Asn Phe Gln His Asn Met Gln Ile
      20      25      30
Gln Arg Ser Ser Ala Trp Glu Ser Thr Cys Leu Met Ser Asp Ile Ile
      35      40      45
Leu Ala Arg Val Ser Glu Thr Leu Ser Thr Glu Gln Ser Leu Asp Ser
      50      55      60
Leu Val Arg Gln Leu Leu Glu Met Leu Glu Ile Val Thr Asp Met Glu
      65      70      75      80
Ser Thr Tyr Leu Thr Lys Ile Asp Ile Asn Ala Arg Leu Gln His Ile
      85      90      95
Leu Tyr Ala Arg Asn Ser Lys Gln Met Gln Ile Pro Glu Gly Phe Ser
      100      105      110
Val Pro Trp Asp Glu Thr Leu Cys Lys Arg Ala Met Asp Ser Asp Thr
      115      120      125
Leu Phe Ser Asn Glu Val Pro Asp Arg Trp Pro Glu Cys Glu Ala Ala
      130      135      140
Lys Ala Leu Gly Ile Thr Thr Tyr Met Ser Val Pro Val His Leu Ala
      145      150      155      160
Asp Gly Ser Leu Tyr Gly Thr Leu Cys Ala Ala Ser Thr Ala Gln Lys
      165      170      175
Gln Phe Ser Glu Arg Gly Glu Gln Val Ile Arg Leu Phe Ala Gly Leu
      180      185      190
Ile Gly Gln Tyr Ile Gln Lys Glu Ser Leu Val Leu Gln Leu Arg Glu
      195      200      205
Ala Asn Ala Ala Leu Ile Thr His Ser Tyr Thr Asp Ala Leu Thr Gly
      210      215      220
Leu Pro Asn Arg Arg Ala Ile Phe Glu Asn Leu Thr Thr
      225      230      235

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<210> 7072

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 7072

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Met Ala Ala Arg Pro Arg Lys His Asn Val Lys Ile Pro Asn Leu Tyr
1      5      10      15
Cys Lys Leu Asp Lys Arg Thr Ser Lys Ile Tyr Trp Gln Tyr Arg His
      20      25      30
Pro Val Thr Gly Ser Phe Ile Gly Phe Gly Thr Asp Asp Glu Ala Ala
      35      40      45
Lys Ala Ala Ala Ile Glu Met Asn Arg Ile Thr Ala Glu Gln Glu Thr
50      55      60
Gln Gln Ser Tyr Ala Leu Ile Asp Met Ala Met Lys Ser Ser Gly Lys
65      70      75      80
Lys Asp Gln Asp Ile Arg Val Ser Glu Trp Ile Lys Lys Tyr Ile Glu
      85      90      95
Ile Gln Met Glu Arg Leu Arg Asp Gly Glu Ile Lys Asn Pro Thr Val
100      105      110
Lys Ser Arg Arg Leu Cys Ser Gln Ile Leu Ala Asp Arg Val Pro Asn
115      120      125
Leu Arg Leu Lys Asp Val Asp Thr Arg Leu Ile Ala Lys Ile Ile Asp
130      135      140
Glu Tyr Lys Ala Glu Gly Lys His Arg Met Gly Gln Leu Ile Arg Ser
145      150      155      160
Val Leu Asn Asp Val Phe Lys Glu Ala Gln His Ala Gly Glu Val Asp
165      170      175
Pro Gly Tyr Asn Pro Ala Leu Ala Val Lys Asn Pro Ile Ala Lys Val
180      185      190
Lys Arg Ser Arg Leu Ser Ile Glu Gln Trp Lys Leu Ile Phe Glu Ser
195      200      205
Ala Gly Ser Leu Pro Pro Cys Ala Gln Asn Ser Met Leu Leu Ala Leu
210      215      220
Val Thr Gly Gln Arg Ile Gly Asp Ile Val Glu Met Lys Phe Ser Asp
225      230      235      240
Ile Trp Asp Asn His Leu His Val Thr Gln Asn Lys Thr Gly Met Lys
245      250      255
Leu Ala Ile Pro Leu Asn Leu Arg Cys Asp Ala Ile Gly Leu Thr Leu
260      265      270
Ala Asp Val Ile Ser Lys Cys Arg Asp Arg Val Val Ser Pro Tyr Leu
275      280      285
Ile His His Val Lys His His Ala Tyr Gly Lys Ala Gly Ser His Val
290      295      300
Pro Glu Lys Thr Ile Ser Arg Tyr Phe Lys Glu Ala Arg Asp Lys Ala
305      310      315      320
Asn Ile Thr Trp Pro Lys Asp Cys Thr Ala Leu Pro Pro Phe His Glu
325      330      335
Gln Arg Ser Leu Ser Ser Arg Thr Tyr Lys Ala Gln Gly Ile Asp Val
340      345      350
Lys Thr Leu Leu Gly His Lys Thr Glu Ala Met Ser Val Met Tyr Gly
355      360      365
Asp Asp Arg Gly Leu Glu Trp Lys Lys Val Val Ile
370      375      380

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<210> 7073

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7073

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Gln Ala Thr Tyr Trp Gln Ile Thr Gly Glu Ile Val Met Ser Asp Asp
1      5      10      15
Val Thr Gly Thr Thr Thr His Gln Arg Leu Ile Ser Leu Leu Thr Glu

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20 25 30
 Gln Glu Ala Arg Phe Arg Val Val Ala His Glu Ala Val Gly Lys Cys
 35 40 45
 Glu Ala Val Ser Glu Ile Arg Gly Thr Asp Leu Arg Gln Gly Ala Lys
 50 55 60
 Ala Leu Val Cys Lys Val Lys Gly Asn Gly Val Lys Lys His Ile Leu
 65 70 75 80
 Ala Ile Leu Ala Ala Asp Arg Gln Ala Asp Leu Ser Leu Leu Ala Ser
 85 90 95
 His Phe Gly Gly Leu Lys Ala Ser Leu Ala Ser Pro Ala Glu Val Asp
 100 105 110
 Ala Leu Thr Gly Cys Val Phe Gly Ala Ile Pro Pro Phe Ser Phe His
 115 120 125
 Pro Asp Leu Thr Leu Val Ala Asp Pro Leu Leu Phe Glu Arg Phe Asp
 130 135 140
 Glu Ile Ala Phe Asn Ala Gly Leu Leu Glu Lys Ser Val Ile Met Asp
 145 150 155 160
 Thr Gln Asp Tyr Leu Arg Ile Ala Arg Pro Glu Leu Val Thr Phe Arg
 165 170 175
 Lys Gln

<210> 7074

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 7074

Glu Thr Ile Met Thr Thr Ala Ile Gln Pro Ser Gly Lys Gln Gly Ala
 1 5 10 15
 Leu Leu Val Ala Gly Ile Leu Met Ile Ala Thr Thr Leu Arg Val Thr
 20 25 30
 Phe Thr Gly Val Ala Pro Leu Leu Asp Thr Ile Arg Gln Asp Tyr Gly
 35 40 45
 Leu Ser Thr Ala Gln Thr Gly Leu Leu Thr Thr Leu Pro Leu Leu Ala
 50 55 60
 Phe Ala Phe Ile Ser Pro Leu Ala Ala Gly Val Ala Arg Arg Leu Gly
 65 70 75 80
 Met Glu Arg Ser Leu Phe Ile Ala Leu Leu Ile Cys Ile Gly Ile
 85 90 95
 Gly Val Arg Ser Leu Pro Ser Ala Ala Leu Leu Phe Ile Gly Thr Ala
 100 105 110
 Ile Val Gly Cys Gly Ile Ala Leu Gly Asn Val Leu Leu Pro Gly Leu
 115 120 125
 Ile Lys Arg Asp Phe Pro Gly Gln Val Ala Lys Leu Thr Gly Ala Tyr
 130 135 140
 Ser Leu Thr Met Gly Ala Ala Ala Ala Gly Ser Ala Leu Ile Val
 145 150 155 160
 Pro Leu Ser Leu Gly Ser Gly Gly Trp His Gly Ala Leu Leu Met Leu
 165 170 175
 Met Phe Phe Pro Leu Val Ala Leu Leu Trp Leu Pro Gln Trp Arg
 180 185 190
 Gln Arg Pro Ala Ala Thr Leu Thr Gly Ala Gly Ala Leu His Asn Arg
 195 200 205
 Ala Ile Trp Arg Ser Ala Leu Ala Trp Gln Val Thr Leu Phe Met Gly
 210 215 220
 Ile Asn Ser Leu Ile Tyr Tyr Val Ile Ile Gly Trp Leu Pro Ala Ile
 225 230 235 240
 Leu Leu Ser His Gly Tyr Ser Glu Thr Gln Ala Gly Ser Met His Gly
 245 250 255
 Leu Leu Gln Leu Ala Thr Ala Val Pro Gly Leu Ala Ile Pro Leu Ile

<400> 7076

Arg Ile Met Ile Met Lys Tyr Leu Leu Leu Ala Leu Val Val Pro Leu
 1 5 10 15
 Ala Ala Cys Ser Thr Lys Thr Thr Pro Pro Asp Ala Pro Gln Pro Pro
 20 25 30
 His Ala Ile Gly Met Ala Asn Pro Ala Ser Val Tyr Cys Leu Glu Lys
 35 40 45
 Gly Gly Glu Gln Ile Pro Val Gln Ser Pro Gln Gly Val Arg Thr Glu
 50 55 60
 Cys Lys Leu Pro Gly Gly Glu Val Ile Asp Glu Trp Asp Leu Tyr Arg
 65 70 75 80
 Arg Asp His Pro Gln Pro Thr Arg
 85

<210> 7077

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7077

Asn Asp Ser Leu Ser Leu Ile Ser Asp Asn Phe Met Tyr Gly Leu Gly
 1 5 10 15
 Leu Asp Gly Tyr Asp Pro Asp Ser Gln His Asp Ala Ala Val Ala Phe
 20 25 30
 Arg Ile Arg Val Val Ala Gln Glu Gln Phe Ile Pro Leu His Gln His
 35 40 45
 Arg Lys Gly Gln Leu Ile Met Ala Leu Gly Gly Ala Ile Thr Cys Glu
 50 55 60
 Val Glu Ser Ala Met Leu Met Val Pro Pro Gln Tyr Ala Val Trp Ile
 65 70 75 80
 Pro Gly Gln Thr Pro His Ser Asn Lys Ala Thr Pro Gly Ala Gln Leu
 85 90 95
 Cys Leu Leu Phe Ile Glu Pro Gly Ala Leu Glu Leu Pro Thr Arg Thr
 100 105 110
 Cys Thr Leu Lys Ile Ser Pro Leu Val Arg Glu Leu Val Leu Ala Leu
 115 120 125
 Ala Asp Arg Ser Arg Glu Glu Leu Pro Leu Pro Ala Thr Gly Arg Leu
 130 135 140
 Val Asp Val Leu Phe Asp Glu Leu Pro Leu Gln Pro Gln Glu His Leu
 145 150 155 160
 Gln Leu Pro Val Ser Pro His Pro Lys Ile Arg Leu Met Ser Glu Thr
 165 170 175
 Met Ala Asn Glu Pro Ala Ala Trp Gln Thr Leu Ala Gln Trp Ala Ser
 180 185 190
 His Phe Ala Met Ser Glu Arg Asn Leu Ala Arg Leu Val Val Lys Glu
 195 200 205
 Thr Gly Leu Ser Phe Arg Arg Trp Arg His Gln Leu Gln Leu Ile Val
 210 215 220
 Ala Leu Gln Phe Leu Ile Gly Gly Lys Ser Val Gln Gln Ala Ala Gln
 225 230 235 240
 Ala Leu Gly Tyr Asp Ser Thr Thr Ala Phe Ile Thr Met Phe Lys Lys
 245 250 255
 Gly Leu Gly Gln Thr Pro Ala Arg Tyr Ile Ala Ser Leu Thr Thr Thr
 260 265 270
 Ser Arg
 275

<210> 7078

<211> 189

<212> PRT

<213> *Enterobacter cloacae*

<400> 7078

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Thr Gln Arg Pro Ala Asp Cys Thr Phe Thr Asn His Ala Phe Asp Ser
1      5      10      15
Leu Ile Pro Ser Leu Lys Phe Lys Lys Tyr Asp Ala Val Ile Ser Gly
      20      25      30
Met Asp Ile Thr Pro Glu Arg Ser Lys Gln Val Ala Phe Thr Asp Pro
      35      40      45
Tyr Tyr Ala Asn Ser Ala Val Val Ile Ala Lys Lys Gly Ala Tyr Lys
      50      55      60
Ser Phe Asp Glu Leu Lys Gly Lys Arg Ile Gly Met Glu Asn Gly Thr
65      70      75      80
Thr His Gln Lys Tyr Leu Gln Asp Lys His Pro Glu Val Lys Thr Val
      85      90      95
Ala Tyr Asp Ser Tyr Gln Asn Ala Ile Ile Asp Leu Lys Asn Gly Arg
      100      105      110
Ile Asp Gly Val Phe Gly Asp Thr Ala Val Val Asn Glu Trp Leu Lys
      115      120      125
Thr Asn Pro Gln Leu Gly Thr Ala Thr Glu Lys Val Thr Asp Pro Gln
      130      135      140
Tyr Phe Gly Thr Gly Leu Gly Ile Ala Val Arg Pro Asp Asn Lys Ala
145      150      155      160
Leu Leu Glu Lys Leu Asn Gly Ala Leu Lys Ala Ile Lys Ala Asp Gly
      165      170      175
Thr Tyr Gln Lys Ile Ser Glu Gln Trp Phe Pro Gln
      180      185

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<210> 7079

<211> 111

<212> PRT

<213> *Enterobacter cloacae*

<400> 7079

```

Arg Gln Val Ile Val His Tyr Arg Cys Tyr Ser Pro Ser Gly Leu Phe
1      5      10      15
Phe Glu Glu Arg Glu Met Phe Ala Val Ile Phe Gly Arg Pro Gly Cys
      20      25      30
Pro Tyr Cys Val Arg Ala Lys Glu Leu Ala Glu Lys Leu Thr Glu Glu
      35      40      45
Arg Asp Asp Phe Asn Phe Arg Tyr Val Asp Ile His Ala Glu Gly Ile
50      55      60
Thr Lys Ala Asp Leu Glu Lys Thr Val Gly Lys Pro Val Glu Thr Val
65      70      75      80
Pro Gln Ile Phe Leu Asp Gln Lys His Ile Gly Gly Cys Thr Asp Phe
      85      90      95
Glu Ala Tyr Ala Lys Glu His Leu Gly Leu Phe Ala Ala Gln
      100      105      110

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<210> 7080

<211> 294

<212> PRT

<213> *Enterobacter cloacae*

<400> 7080

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Leu Arg Ile Pro Val Asn Tyr Ile Asp Gln Phe Ile Asn Phe Val Ser
1      5      10      15
Thr Leu Tyr Thr Pro Arg Arg Ala Cys Thr Thr Leu Phe Met Ile Cys
      20      25      30
Gly Gly Val Leu Ser Leu Cys Lys Ile Leu Pro Leu Leu His Leu Trp
      35      40      45

```

Leu Thr Thr Ala Ile Lys Pro Ile Ala Gln Asn Tyr Glu Thr Tyr Ile
 50 55 60
 Leu Leu Ile Ser Leu Val Ile Gly Val Ser Leu Gly Ile Val Val Phe
 65 70 75 80
 Ser Ile Val Asp Leu Ile Val Leu Thr Ile Tyr Glu His Leu Ile Ser
 85 90 95
 Lys Lys Lys Lys Ser Gln Ser Glu Leu Lys Ala Ile Lys Glu Lys Asn
 100 105 110
 Ile Arg Asp Glu Val Ile Phe Ser Asn Phe Lys Thr Ala Tyr Phe His
 115 120 125
 Leu Ser Ile Asp Lys Ile Asn Ile Ile Arg Ser Leu Ile Thr Phe Pro
 130 135 140
 Ser Leu Ser Phe His Ser Glu His Glu Asp Val Lys Phe Leu Glu Lys
 145 150 155 160
 Ser Gly Trp Ile Glu Ala Leu Thr Tyr Ile Ser Asp Glu Glu Lys Val
 165 170 175
 Tyr Gln Leu Asn Gln Thr Ile Arg Leu Tyr Ala Asp Asp Arg Trp Asn
 180 185 190
 Glu Glu Val Asn Phe Asn Thr Asp His Phe His Ser Phe Asp Ala Glu
 195 200 205
 Thr Ala Ile Ser Ile Ile Asn Ala Met Ser Asp Val Lys Ile Lys Ala
 210 215 220
 Glu Leu Asp Glu Phe Asn Phe Ser Phe Tyr Lys Ser Asp Ile Glu Lys
 225 230 235 240
 Cys Phe Glu Val Ser Glu Phe Thr Glu Thr Leu Tyr Ser Leu Arg Phe
 245 250 255
 Lys Glu Arg Tyr Glu Lys Lys Phe Ser Glu Leu His Leu Lys Pro Phe
 260 265 270
 Arg Ser Glu Arg Leu Phe Ser Ile Lys Val Arg Glu Asn Ile Pro Asp
 275 280 285
 Leu Asp Ile Pro Phe
 290

<210> 7081

<211> 601

<212> PRT

<213> Enterobacter cloacae

<400> 7081

Cys Leu Gly Tyr Leu Ser Gly Ser Arg Glu Met Gln Ser Asp Ser Leu
 1 5 10 15
 Thr Leu Lys Thr Val Ala Gln Ile Val Leu Ser Phe Asn Asn Leu Leu
 20 25 30
 Val Asn Lys Lys Leu Ala Ser Val Asn Ile Asn Val Ala Asp Leu Leu
 35 40 45
 Asn Gly Asn Tyr Ile Leu Leu Leu Phe Val Val Leu Ala Leu Gly Leu
 50 55 60
 Cys Leu Gly Lys Leu Arg Leu Gly Ser Val Gln Leu Gly Asn Ser Ile
 65 70 75 80
 Gly Val Leu Val Val Ser Leu Leu Leu Gly Gln Gln His Phe Ser Ile
 85 90 95
 Asn Thr Asp Ala Leu Asn Leu Gly Phe Met Leu Phe Ile Phe Cys Val
 100 105 110
 Gly Val Glu Ala Gly Pro Asn Phe Phe Ser Ile Phe Phe Arg Asp Gly
 115 120 125
 Lys Asn Tyr Leu Met Leu Ala Leu Val Met Val Gly Ser Ala Leu Leu
 130 135 140
 Ile Ala Leu Gly Leu Gly Lys Leu Phe Gly Trp Asp Ile Gly Leu Thr
 145 150 155 160
 Ala Gly Met Leu Ala Gly Ser Met Thr Ser Thr Pro Val Leu Val Gly
 165 170 175

Ala Gly Asp Thr Leu Arg His Ser Gly Met Ala Gly Thr Pro Leu Ser
 180 185
 Ser Ala Leu Asp Asn Leu Ser Leu Gly Tyr Ala Leu Thr Tyr Leu Ile
 195 200
 Gly Leu Val Ser Leu Ile Val Gly Ala Arg Tyr Leu Pro Lys Leu Gln
 210 215
 His Gln Asp Leu Gln Thr Ser Ala Gln Thr Ile Ala Arg Glu Arg Gly
 225 230 235
 Leu Asp Thr Asp Ser Lys Arg Lys Val Tyr Leu Pro Val Ile Arg Ala
 245 250 255
 Tyr Arg Val Gly Pro Glu Leu Val Ala Trp Thr Asp Gly Lys Asn Leu
 260 265 270
 Arg Glu Leu Gly Ile Tyr Arg Gln Thr Gly Cys Tyr Ile Glu Arg Ile
 275 280 285
 Arg Arg Asn Gly Ile Leu Ala Asn Pro Asp Gly Asp Ala Val Leu Gln
 290 295 300
 Met Gly Asp Asp Ile Ala Leu Val Gly Tyr Pro Asp Ala His Ala Arg
 305 310 315 320
 Leu Asp Pro Ser Phe Arg Asn Gly Lys Glu Val Phe Asp Arg Asp Leu
 325 330 335
 Leu Asp Met Arg Ile Val Thr Glu Glu Ile Val Val Lys Asn His Asn
 340 345 350
 Ala Val Gly Arg Arg Leu Ala Gln Leu Lys Leu Thr Asp His Gly Cys
 355 360 365
 Phe Leu Asn Arg Val Ile Arg Ser Gln Ile Glu Met Pro Ile Asp Asp
 370 375 380
 Asn Val Val Leu Asn Lys Gly Asp Val Leu Gln Val Ser Gly Asp Ala
 385 390 395 400
 Arg Arg Val Lys Thr Val Ala Asp Arg Ile Gly Phe Ile Ser Ile His
 405 410 415
 Ser Gln Val Thr Asp Leu Leu Ala Phe Cys Ala Phe Phe Ile Val Gly
 420 425 430
 Leu Met Ile Gly Met Ile Thr Phe Gln Phe Ser Asn Phe Ser Phe Gly
 435 440 445
 Ile Gly Asn Ala Ala Gly Leu Leu Phe Ala Gly Ile Met Leu Gly Phe
 450 455 460
 Leu Arg Ala Asn His Pro Thr Phe Gly Tyr Ile Pro Gln Gly Ala Leu
 465 470 475 480
 Asn Met Val Lys Glu Phe Gly Leu Met Val Phe Met Ala Gly Val Gly
 485 490 495
 Leu Ser Ala Gly Ser Gly Ile Gly Asn Gly Leu Gly Ala Val Gly Trp
 500 505 510
 Gln Met Leu Val Ser Gly Leu Ile Val Ser Leu Val Pro Val Val Ile
 515 520 525
 Cys Phe Leu Phe Gly Ala Tyr Val Leu Arg Met Asn Arg Ala Leu Leu
 530 535 540
 Phe Gly Ala Met Met Gly Ala Arg Thr Cys Ala Pro Ala Met Glu Ile
 545 550 555 560
 Ile Ser Asp Thr Ala Arg Ser Asn Ile Pro Ala Leu Gly Tyr Ala Gly
 565 570 575
 Thr Tyr Ala Ile Ala Asn Val Leu Leu Thr Leu Ala Gly Thr Leu Ile
 580 585 590
 Ile Ile Ile Trp Pro Gly Leu Gly
 595 600

<210> 7082

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 7082

Pro Lys Val Gly Trp Phe Ala Arg Arg Lys Pro Ser Met Ile Pro Ala
 1 5 10 15
 Asn Ser Arg Pro Ala Ala Leu Pro Met Pro Lys Leu Lys Leu Leu Asn
 20 25 30
 Trp Lys Val Ile Ile Pro Ile Ile Arg Pro Thr Met Lys Lys Ala Gln
 35 40 45
 Lys Ala Asn Arg Ser Val Thr Trp Leu Trp Ile Glu Ile Lys Pro Ile
 50 55 60
 Arg Ser Ala Thr Val Leu Thr Arg Arg Ala Ser Pro Leu Thr Cys Asn
 65 70 75 80
 Thr Ser Pro Leu Leu Ser Thr Thr Leu Ser Ser Ile Gly Ile Ser Ile
 85 90 95
 Trp Leu Arg Ile Thr Arg Leu Lys Gln Pro Trp Ser Val Ser Phe
 100 105 110
 Ser Cys Ala Arg Arg Arg Pro Thr Ala Leu Trp Phe Phe Thr Thr Ile
 115 120 125
 Ser Ser Val Thr Ile Arg Met Ser Ser Arg Ser Arg Ser Asn Thr Ser
 130 135 140
 Phe Pro Leu Arg Lys Leu Gly Ser Arg Arg Ala Trp Ala Ser Gly
 145 150 155 160

<210> 7083

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 7083

Gln Ser Val Ser Leu Ile Val Ile Ala Thr Asp Ser His Leu Leu Ser
 1 5 10 15
 His Asp Phe Cys Ala Cys Phe Gly Lys Asp Cys Arg Ile Ala Leu Ser
 20 25 30
 Asp Trp Ala Ser Thr Gly Arg Phe Leu Tyr Leu Ile Glu Ile Ser Gln
 35 40 45
 Glu Asp Ser Leu Asn Phe Lys Arg Asn Trp Ala Gly Val Ile Ser Cys
 50 55 60
 Phe Leu Leu Phe Thr Val Val Cys Met Ser Leu Ala Phe Asn Val Lys
 65 70 75 80
 Gly Ala Phe Arg Ala Ser Gly His Pro Glu Leu Gly Leu Leu Phe Phe
 85 90 95
 Ile Leu Pro Gly Val Val Ala Gly Phe Leu Ser Arg Lys Gly Glu Val
 100 105 110
 Val Met Pro Leu Ile Gly Ala Met Leu Ala Ala Pro Leu Cys Leu Leu
 115 120 125
 Leu Met Arg Val Leu Phe Leu Ser Ser Arg Ser Val Trp Gln Glu Val
 130 135 140
 Ala Trp Leu Leu Ser Gly Val Phe Trp Cys Ala Leu Gly Ala Leu Cys
 145 150 155 160
 Phe Leu Phe Thr Arg Ser Leu Leu Gln Gln Arg Lys His Arg Lys
 165 170 175

<210> 7084

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 7084

Arg Val Thr Ala Thr Thr Ala Ala Thr Pro Gly Ala Thr Ile Phe Val
 1 5 10 15
 Ala Pro Leu Ser Arg Arg Thr Ala Arg Ser Phe Ser Thr Thr Cys Thr
 20 25 30
 Asn Arg Ala Gly Gln Arg Gly Ser Pro Phe Leu Leu Arg Leu Val Tyr

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      35              40              45
Asp Arg Gln Ala Phe Thr Met Ser Leu Glu Arg Cys Arg Val Lys Ile
50              55              60
Ala Ile Leu Ser Arg Asp Gly Thr Leu Tyr Ser Cys Lys Arg Leu Arg
65              70              75              80
Glu Ala Ala Ala Lys Arg Gly His Gln Val Glu Ile Leu Asp Pro Met
      85              90              95
Ser Cys Tyr Met Asn Ile Asp Pro Ala Ala Ser Ser Ile His Tyr Lys
100              105              110
Gly Arg Lys Leu Pro His Phe Asp Ala Val Ile Pro Arg Ile Gly Ser
115              120              125
Gln Ile Thr Tyr Tyr Gly Thr Ala Ala Leu Arg Gln Phe Glu Met Leu
130              135              140
Gly Ser Tyr Pro Leu Asn Glu Ser Val Ala Ile Ser Arg Ala Arg Asp
145              150              155              160
Lys Leu Arg Ser Leu Gln Leu Leu Ala Arg Gln Gly Ile Asp Leu Pro
      165              170              175
Val Thr Gly Ile Ala His Ser Pro Asp Asp Thr Ser Asp Leu Ile Asp
180              185              190
Met Val Gly Gly Ala Pro Leu Val Ile Lys Leu Val Glu Gly Thr Gln
195              200              205
Gly Ile Gly Val Val Leu Ala Glu Thr Arg Gln Ala Ala Glu Ser Val
210              215              220
Ile Asp Ala Phe Arg Gly Leu Asn Ala His Ile Leu Val Gln Glu Tyr
225              230              235
Ile Lys Glu Ala Lys Gly Cys Asp Ile Arg Cys Phe Val Val Gly Asn
      245              250              255
Glu Val Val Ala Ala Ile Glu Arg Gln Ala Lys Glu Gly Asp Phe Arg
260              265              270
Ser Asn Leu His Arg Gly Gly Ile Ala Arg Val Ala Leu Ile Ser Glu
275              280              285
Arg Glu Arg Glu Ile Ala Val Lys Ala Ala Gln Thr Leu Gly Leu Asp
290              295              300
Val Ala Gly Val Asp Leu Leu Arg Ala Asp Arg Gly Pro Leu Val Met
305              310              315              320
Glu Val Asn Ala Ser Pro Gly Leu Glu Gly Val Glu Lys Thr Thr Gly
      325              330              335
Val Asp Ile Ala Gly Lys Met Ile Ala Trp Ile Glu Cys His Ala Thr
340              345              350
Pro Gly Phe Cys Leu Lys Thr Gly Gly
355              360

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<210> 7085

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 7085

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Ser Gly Gln Arg Phe Tyr Leu Arg Gly Cys Thr Ala Met Asp Leu Gln
1              5              10              15
Val Val Pro Thr Leu Asp Thr Leu Arg Gln Trp Leu Asp Asp Ala Gly
20              25              30
Ile Thr Phe Phe Glu Cys Asp Ser Cys Gln Ala Leu His Leu Pro His
35              40              45
Met Gln Asn Phe Asp Gly Ile Phe Asp Ala Lys Ile Asp Leu Ile Asn
50              55              60
Asp Val Ile Leu Phe Ser Ala Leu Ala Glu Val Lys Pro Ser Ala Leu
65              70              75              80
Leu Ala Leu Ala Ser Asp Leu Ser Ala Ile Asn Ala Ser Ser Leu Thr
      85              90              95
Val Lys Ala Phe Leu Asp Ile Gln Asp Asp Asn Leu Pro Lys Leu Val

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Val	Cys	Gln	100	Ser	Leu	Phe	Ser	Gly	105	Ala	Gly	Leu	Ser	Phe	110	Lys	Gln	Phe
Ala	Trp	Phe	115	Met	Arg	Leu	Ser	Glu	120	Glu	Gln	Ile	Ser	Met	Val	Met	Met	
Glu	Ala	Asn	130	Ala	His	His	Leu	Leu	135	Tyr	Ser	Ala	Glu	Asp	Asp	Ala	Glu	
Asn	Asn	Asp	145	Ala	Ser	Pro	Asn	Phe	150	Leu	His						160	
									165								170	

<210> 7086

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 7086

Thr	Ser	Ala	Glu	Thr	Asp	Gly	Arg	Pro	Arg	Met	Asn	Asn	Leu	Pro	Val
1			5						10				15		
Val	Arg	Ser	Pro	Trp	Arg	Ile	Ala	Ile	Leu	Ile	Ile	Gly	Phe	Thr	Phe
			20					25					30		
Leu	Tyr	Ala	Pro	Met	Leu	Met	Leu	Val	Ile	Tyr	Ser	Phe	Asn	Ser	Ser
			35				40					45			
Lys	Leu	Val	Thr	Val	Trp	Ala	Gly	Trp	Ser	Thr	Arg	Trp	Tyr	Ser	Glu
			50				55				60				
Leu	Phe	His	Asp	Asp	Ala	Met	Met	Ser	Ala	Val	Gly	Leu	Ser	Leu	Thr
			65			70				75			80		
Ile	Ala	Ala	Leu	Ala	Ala	Thr	Met	Ala	Cys	Val	Leu	Gly	Thr	Ile	Ala
			85						90				95		
Ala	Leu	Val	Met	Val	Arg	Phe	Gly	Arg	Phe	Arg	Gly	Ala	Asn	Gly	Phe
			100				105					110			
Ala	Phe	Met	Ile	Thr	Ala	Pro	Leu	Val	Met	Pro	Asp	Val	Ile	Thr	Gly
			115				120					125			
Leu	Ser	Leu	Leu	Leu	Leu	Phe	Val	Ala	Leu	Ala	His	Ala	Ile	Gly	Trp
			130				135				140				
Pro	Ala	Asp	Arg	Gly	Met	Leu	Thr	Ile	Trp	Leu	Ala	His	Val	Thr	Phe
			145			150				155					160
Cys	Thr	Ala	Tyr	Val	Ala	Val	Val	Ile	Ser	Ser	Arg	Leu	Arg	Glu	Leu
			165						170					175	
Asp	Arg	Ser	Ile	Glu	Glu	Ala	Ala	Met	Asp	Leu	Gly	Ala	Thr	Pro	Leu
			180					185					190		
Lys	Val	Phe	Phe	Ile	Ile	Thr	Leu	Pro	Met	Ile	Met	Pro	Ala	Val	Ile
			195				200					205			
Ser	Gly	Trp	Leu	Leu	Ala	Phe	Thr	Leu	Ser	Leu	Asp	Asp	Leu	Val	Ile
			210				215				220				
Ala	Ser	Phe	Val	Ser	Gly	Pro	Gly	Ala	Thr	Thr	Leu	Pro	Met	Leu	Val
			225				230				235			240	
Phe	Ser	Ser	Val	Arg	Met	Gly	Val	Asn	Pro	Glu	Ile	Asn	Ala	Leu	Ala
			245					250					255		
Ser	Ile	Ile	Leu	Gly	Val	Val	Gly	Ile	Val	Gly	Phe	Ile	Ala	Trp	Tyr
			260				265					270			
Leu	Met	Ala	Arg	Ala	Glu	Lys	Gln	Arg	Val	Arg	Asp	Ile	Gln	Arg	Ala
			275				280					285			
Arg	Arg	Gly													
			290												

<210> 7087

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 7087

Cys Ala Ala Tyr Asp Ala Ala Leu Phe Phe Arg Glu Val Lys Thr Leu
 1 5 10 15
 Gly Phe Leu Gln Lys Thr Arg His Ser His Ala Arg Pro Asn Val Pro
 20 25 30
 Ala Leu Val Gln Val Ala Ala Leu Ala Ile Ile Met Ile Arg Cys Leu
 35 40 45
 Asp Val Leu Met Ile Met Asn Thr Leu Gly Pro Arg Gly Met Gly Glu
 50 55 60
 Phe Ile His Arg Ser Ala Gln Thr Trp Asn Leu Thr Leu Val Phe Leu
 65 70 75 80
 Ser Ser Leu Met Leu Val Phe Ile Glu Ile Tyr Cys Ala Phe Ser Leu
 85 90 95
 Val Lys Gly Arg Asn Trp Ala Arg Trp Val Tyr Leu Leu Thr Gln Ile
 100 105 110
 Thr Ala Ala Gly Tyr Leu Trp Ala Ala Ser Leu Gly Tyr Gly Tyr Pro
 115 120 125
 Glu Leu Phe Ser Ile Pro Gly Glu Ser Arg Arg Glu Ile Phe His Ser
 130 135 140
 Leu Val Met Gln Lys Leu Pro Asp Met Leu Val Leu Phe Leu Leu Phe
 145 150 155 160
 Ala Pro Ala Ser Ser Arg Arg Phe Phe Arg Leu Gln
 165 170

<210> 7088

<211> 514

<212> PRT

<213> *Enterobacter cloacae*

<400> 7088

Lys Lys Met Pro Pro Ser Arg Arg Ser Phe Ala Pro Ser Gly Ala Lys
 1 5 10 15
 Ala Thr Asn Ser Ser Arg Ser Arg Ile Met Met Arg Arg Phe Ser Leu Ser
 20 25 30
 Gln Arg Leu Thr Leu Leu Phe Thr Val Leu Leu Leu Cys Ala Thr
 35 40 45
 Val Ala Cys Ala Val Gln Leu Tyr Ile Ser Met Gln Tyr Gly Asn Ala
 50 55 60
 Met Val Gln Arg Leu Ser Gly Gly Leu Ala Gln Gln Ile Val Gln Arg
 65 70 75 80
 Glu Ala Ile Leu Asp Ser Gln Gly Arg Val Asp Arg Ser Ala Leu Lys
 85 90 95
 Pro Leu Phe Asp Arg Leu Met Thr Phe Asn Pro Ser Val Glu Leu Tyr
 100 105 110
 Val Val Ser Pro Asp Gly Asp Ile Leu Ala Asp Ala Ala Pro Pro Gly
 115 120 125
 His Ile Gln Arg Gln Lys Ile Asp Leu Ala Pro Ile Gln Asn Phe Leu
 130 135 140
 Ser Gly Thr Val Met Pro Val Phe Gly Asp Asp Pro Arg Ser Gln Asn
 145 150 155 160
 Lys Lys Val Phe Ser Ala Thr Pro Leu Arg Gln Asp Gly Glu Leu Lys
 165 170 175
 Gly Tyr Leu Tyr Ile Ile Leu Gln Gly Glu Glu Ser Asn Ala Leu Ala
 180 185 190
 Glu Met Ala Trp His Lys Ala Leu Trp Ser Thr Ala Leu Trp Ser Met
 195 200 205
 Leu Leu Val Ala Leu Phe Gly Leu Leu Ala Gly Val Leu Leu Trp Tyr
 210 215 220
 Trp Val Thr Arg Pro Val Lys Glu Leu Thr Leu Asp Val Ala Gly Leu
 225 230 235 240
 Glu Gln Asp Ser Ile Ser Ala Ile Lys Gln Leu Ala Ala Gln Pro Leu
 245 250 255

Glu Pro Ala Gly Gln Asp Glu Val Ala Ile Leu Arg Asn Thr Phe Ile
 260 265 270
 Glu Leu Ala Arg Lys Ile Thr Ser Gln Trp Asp Arg Leu Ala Asp Ser
 275 280 285
 Asp Arg Gln Arg Arg Glu Phe Ile Ala Asn Ile Ser His Asp Leu Arg
 290 295 300
 Thr Pro Leu Thr Ser Leu Leu Gly Tyr Leu Glu Thr Leu Ser Leu Lys
 305 310 315 320
 Ser Ala Thr Leu Ser Pro Gln Glu His Gln Gln Tyr Leu Ala Thr Ala
 325 330 335
 Leu Arg Gln Gly Gln Lys Val Arg His Leu Ser Gln Gln Leu Phe Glu
 340 345 350
 Leu Ala Arg Leu Glu His Gly Gly Ile Lys Pro Gln Arg Glu Arg Phe
 355 360 365
 Ala Met Ala Glu Leu Ile Ser Asp Val Ala Gln Lys Phe Glu Leu Thr
 370 375 380
 Ala Arg Thr Arg Glu Val Asn Leu Arg Ile Asp Val Pro Gly Arg Leu
 385 390 395 400
 Pro Leu Val Asn Ala Asp Val Ser Met Ile Glu Arg Val Val Thr Asn
 405 410 415
 Leu Leu Asp Asn Ala Ile Arg His Thr Pro Ser Gly Gly Glu Ile Arg
 420 425 430
 Leu Ala Val Trp Gln Glu Asn Glu Arg Leu Gln Val Glu Val Ala Asp
 435 440 445
 Asn Gly Thr Gly Val Asp Ala Ser Leu Arg Asp Asp Leu Phe Gln Arg
 450 455 460
 Pro Ser Ala Leu Asn Pro Gln Ala Ser Arg Glu Asn Arg Gly Gly Leu
 465 470 475 480
 Gly Leu Leu Ile Val Lys Arg Met Leu Glu Leu His Gly Gly Gly Ile
 485 490 495
 Arg Leu Met Glu Ser Val Ser Gly Ala Arg Phe Arg Phe Phe Val Pro
 500 505 510
 Leu

<210> 7089

<211> 406

<212> PRT

<213> *Enterobacter cloacae*

<400> 7089

Ala Gly Gln Ala Leu Ala Pro Pro Gly Asp Ala His Pro Asp Gly Ala
 1 5 10 15
 Phe Ala Pro Val Leu Ile Tyr Ala Gly Glu His Pro Val Asn Asp Ala
 20 25 30
 Ile Pro Arg Pro Gln Ala Lys Val Arg Lys Ala Leu Thr Pro Leu Leu
 35 40 45
 Glu Ile Arg Asn Leu Thr Lys Ser Phe Asp Gly Gln His Ala Val Asp
 50 55 60
 Asp Val Ser Leu Thr Ile Tyr Lys Gly Glu Ile Phe Ala Leu Leu Gly
 65 70 75 80
 Ala Ser Gly Cys Gly Lys Ser Thr Leu Leu Arg Met Leu Ala Gly Phe
 85 90 95
 Glu Gln Pro Thr Ala Gly Gln Ile Val Leu Asp Gly Val Asp Leu Ser
 100 105 110
 Ser Val Pro Pro Tyr Gln Arg Pro Ile Asn Met Met Phe Gln Ser Tyr
 115 120 125
 Ala Leu Phe Pro His Met Thr Val Glu Gln Asn Ile Ala Phe Gly Leu
 130 135 140
 Lys Gln Asp Lys Leu Pro Lys Ala Glu Ile Thr Ala Arg Val Ala Glu
 145 150 155 160

Met Leu Ser Leu Val His Met Gln Glu Phe Ala Lys Arg Lys Pro His
 165 170 175
 Gln Leu Ser Gly Gly Gln Arg Gln Arg Val Ala Leu Ala Arg Ser Leu
 180 185 190
 Ala Lys Arg Pro Lys Leu Leu Leu Leu Asp Glu Pro Met Gly Ala Leu
 195 200 205
 Asp Lys Lys Leu Arg Asp Arg Met Gln Leu Glu Val Val Asp Ile Leu
 210 215 220
 Glu Arg Val Gly Val Thr Cys Val Met Val Thr His Asp Gln Glu Glu
 225 230 235 240
 Ala Met Thr Met Ala Gly Arg Ile Ala Ile Met Asn Arg Gly Lys Phe
 245 250 255
 Val Gln Ile Gly Glu Pro Glu Glu Ile Tyr Glu His Pro Thr Thr Arg
 260 265 270
 Tyr Ser Ala Glu Phe Ile Gly Ser Val Asn Val Phe Glu Gly Leu Leu
 275 280 285
 Lys Glu Arg Gln Asp Asp Gly Leu Val Ile Glu Ser Pro Gly Leu Val
 290 295 300
 His Pro Leu Lys Val Asp Ser Asp Asn Ser Val Val Asp Asn Val Pro
 305 310 315 320
 Val Tyr Val Ala Leu Arg Pro Glu Lys Ile Met Leu Cys Asp Glu Pro
 325 330 335
 Pro Ala Asp Gly Tyr Asn Phe Ala Val Gly Glu Val Val His Ile Ala
 340 345 350
 Tyr Leu Gly Asp Leu Ser Ile Tyr His Val Arg Leu Lys Ser Gly Gln
 355 360 365
 Met Leu Ser Ala Gln Leu Gln Asn Glu His Arg Tyr Arg Lys Gly Gln
 370 375 380
 Pro Thr Trp Gly Asp Glu Val Ser Leu Cys Trp Asp Ala Asp Ser Cys
 385 390 395 400
 Val Val Leu Thr Val
 405

<210> 7090

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 7090

Gly Ala Val Met Ser Thr Leu Glu Pro Pro Ala Arg Val Lys Lys Pro
 1 5 10 15
 Gly Gly Phe Ala Leu Trp Leu Ala Arg Met Gln Met Ala His Gly Arg
 20 25 30
 Lys Leu Val Ile Ala Met Pro Tyr Ile Trp Leu Ile Leu Leu Phe Leu
 35 40 45
 Leu Pro Phe Leu Ile Val Phe Lys Ile Ser Leu Ala Glu Met Ala Arg
 50 55 60
 Ala Ile Pro Pro Tyr Thr Asp Leu Trp Glu Trp Ala Asp Gly Gln Leu
 65 70 75 80
 Thr Leu Thr Val Asn Leu Gly Asn Phe Leu Gln Leu Thr Asp Asp Pro
 85 90 95
 Leu Tyr Phe Glu Ala Tyr Leu Gln Ser Leu Gln Val Ala Ala Ile Ser
 100 105 110
 Thr Ile Cys Cys Leu Leu Met Gly Tyr Pro Leu Ala Trp Ala Val Ala
 115 120 125
 His Ser Lys Pro Ser Thr Arg Asn Ile Leu Leu Leu Val Ile Leu
 130 135 140
 Pro Ser Trp Thr Ser Phe Leu Ile Arg Val Tyr Ala Trp Met Gly Ile
 145 150 155 160
 Leu Lys Asn Asn Gly Ile Leu Asn Asn Phe Leu Leu Trp Leu Gly Val
 165 170 175

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Ile Asp Gln Pro Leu Thr Ile Leu His Thr Asn Leu Ala Val Tyr Ile
      180      185      190
Gly Ile Val Tyr Ala Tyr Leu Pro Phe Met Val Leu Pro Ile Tyr Thr
      195      200      205
Ala Leu Thr Arg Ile Asp Tyr Ser Leu Val Glu Ala Ser Leu Asp Leu
      210      215      220
Gly Ala Arg Pro Leu Lys Thr Phe Phe Ser Val Ile Val Pro Leu Thr
      225      230      235      240
Lys Gly Gly Ile Ile Ala Gly Ser Met Leu Val Phe Ile Pro Ala Val
      245      250      255
Gly Glu Phe Val Ile Pro Glu Leu Leu Gly Gly Pro Asp Ser Ile Met
      260      265      270
Ile Gly Arg Val Leu Trp Gln Glu Phe Phe Asn Asn Arg Asp Trp Pro
      275      280      285
Val Ala Ser Ala Val Ala Ile Val Met Leu Leu Leu Ile Val Pro
      290      295      300
Ile Met Trp Phe His Lys His Gln Gln Lys Gln Met Gly Asp His Gly
      305      310      315      320

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<210> 7091

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 7091

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Gly Phe His Met Gln Cys Ala Leu Tyr Asp Ala Gly Arg Cys Arg Ser
1      5      10      15
Cys Gln Trp Ile Glu Gln Pro Val Ser Gln Gln Leu Thr Ala Lys Met
      20      25      30
Ala Asn Leu Gln Gln Leu Leu Ala Ala His Ala Val Gly Glu Trp Cys
      35      40      45
Ala Pro Val Ser Gly Pro Glu Gln Gly Phe Arg Asn Lys Ala Lys Met
      50      55      60
Val Val Ser Gly Ser Val Glu Lys Pro Leu Leu Gly Met Leu His Arg
      65      70      75      80
Asp Gly Thr Pro Glu Asp Leu Thr Asp Cys Pro Leu Tyr Pro Ala Ser
      85      90      95
Phe Glu Pro Val Phe Ser Ala Leu Lys Pro Phe Ile Ala Arg Ala Gly
      100      105      110
Leu Thr Pro Tyr Asn Val Ala Arg Arg Gly Glu Leu Lys Tyr Leu
      115      120      125
Leu Leu Thr Glu Ser Gln Ile Asp Gly Gly Met Met Leu Arg Phe Val
      130      135      140
Leu Arg Ser Glu Thr Lys Leu Glu Gln Leu Arg Ala Ala Leu Pro Gly
      145      150      155      160
Leu Gln Gln Gln Leu Pro Gln Leu Lys Val Ile Thr Ala Asn Ile Gln
      165      170      175
Pro Val His Met Ala Ile Met Glu Gly Glu Lys Glu Ile Phe Phe Thr
      180      185      190
Glu Gln His Ala Leu Glu Glu Arg Phe Asn Gly Val Pro Leu Trp Ile
      195      200      205
Arg Pro Gln Ser Phe Phe Gln Thr Asn Pro Thr Val Ala Ser Ala Leu
      210      215      220
Tyr Thr Thr Ala Arg Asp Trp Val Arg Ala Leu Gln Val His His Met
      225      230      235      240
Trp Asp Leu Phe Cys Gly Val Gly Gly Phe Gly Leu His Cys Ala Thr
      245      250      255
Pro Asp Met Gln Leu Thr Gly Ile Glu Ile Ser Ala Glu Ala Ile Ala
      260      265      270

```

Cys Ala Lys Gln Ser Ala Ala Glu Leu Gly Leu Thr Asn Leu His Phe
 275 280
 Gln Ala Leu Asp Ser Thr Gln Phe Ala Thr Gly Gln Gly Asn Val Pro
 290 295 300
 Glu Leu Val Leu Val Asn Pro Pro Arg Arg Gly Ile Gly Gln Ala Leu
 305 310 315 320
 Cys Asp Tyr Leu Ser Gln Met Ala Pro Glu Tyr Ile Val Tyr Ser Ser
 325 330 335
 Cys Asn Ala Gln Thr Met Ala Lys Asp Ile Ala Ser Leu Pro Gly Tyr
 340 345 350
 Arg Ile Ala Arg Val Gln Leu Phe Asp Met Phe Pro His Thr Ala His
 355 360 365
 Tyr Glu Val Leu Thr Leu Leu Thr Lys Ala
 370 375

<210> 7092

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 7092

Tyr Ser Gln Ala Met Phe Arg Gln Leu His Gln Val Glu His Cys Leu
 1 5 10 15
 Tyr Trp Leu Pro Tyr Val Leu Arg Asn Thr Lys Arg Asp Lys Met Thr
 20 25 30
 Pro Thr Ile Asp Leu Leu Arg Ser His Arg Ser Ile Arg His Phe Thr
 35 40 45
 Asp Glu Pro Ile Thr Gln Ala Gln Arg Asp Ala Ile Ile Asp Ser Ala
 50 55 60
 Arg Gly Thr Ser Ser Ser Ser Phe Leu Gln Cys Ser Ser Ile Ile Arg
 65 70 75 80
 Ile Thr Asp Pro Ala Met Arg Glu Gln Leu Val Thr Leu Thr Gly Gly
 85 90 95
 Gln Lys His Val Ala Gln Ala Ala Glu Phe Trp Val Phe Cys Ala Asp
 100 105 110
 Phe Asn Arg His Leu Gln Ile Cys Pro Glu Ala Glu Leu Gly Leu Ala
 115 120 125
 Glu Gln Leu Leu Leu Gly Val Val Asp Thr Ala Leu Met Ala Gln Asn
 130 135 140
 Ala Phe Thr Ala Ala Glu Ser Leu Gly Leu Gly Gly Val Tyr Ile Gly
 145 150 155 160
 Gly Leu Arg Asn Asn Ile Glu Ser Val Thr Glu Leu Leu Lys Leu Pro
 165 170 175
 Lys His Val Leu Pro Leu Phe Gly Leu Cys Leu Gly Trp Pro Ala Asp
 180 185 190
 Asn Pro Asp Leu Lys Pro Arg Ile Pro Ala Ala Met Leu Val His Glu
 195 200 205
 Asn His Tyr Gln Pro Val Asp Gln Asp Val Leu His Gln Tyr Asp Glu
 210 215 220
 Glu Leu Ala Asn Tyr Tyr Leu Thr Arg Asp Ser Asn Asn Arg Arg Asp
 225 230 235 240
 Thr Trp Ser Asp His Ile Arg Arg Thr Ile Ile Lys Glu Asn Arg Pro
 245 250 255
 Phe Ile Leu Asp Tyr Leu His Lys Gln Gly Trp Ala Thr Arg
 260 265 270

<210> 7093

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 7093

Arg Thr Phe Arg Arg Asn Asn Asn Met Ile Ala Leu Asn Lys Lys Trp
 1 5 10 15
 Leu Ser Gly Leu Val Ala Gly Ala Leu Met Ala Val Ser Ala Gly Thr
 20 25 30
 Leu Ala Ala Glu Gln Lys Thr Leu His Val Tyr Asn Trp Ser Asp Tyr
 35 40 45
 Ile Ala Pro Asp Thr Val Ala Asn Phe Glu Lys Glu Thr Gly Ile Lys
 50 55 60
 Val Val Tyr Asp Val Phe Asp Ser Asn Glu Val Leu Glu Gly Lys Leu
 65 70 75 80
 Met Ala Gly Ser Thr Gly Phe Asp Leu Val Val Pro Ser Ala Ser Phe
 85 90 95
 Leu Glu Arg Gln Leu Thr Ala Gly Val Phe Gln Pro Leu Asp Lys Ser
 100 105 110
 Lys Leu Pro Asn Trp Lys Asn Leu Asp Pro Asp Val Leu Lys Leu Val
 115 120 125
 Ala Lys His Asp Pro Asp Asn Lys Tyr Ala Met Pro Tyr Leu Trp Ala
 130 135 140
 Thr Thr Gly Ile Gly Tyr Asn Val Asp Lys Val Lys Ala Ala Leu Gly
 145 150 155 160
 Pro Asp Val Lys Leu Asp Ser Trp Asp Val Val Leu Lys Pro Glu Asn
 165 170 175
 Leu Glu Lys Leu Lys Ser Cys Gly Val Ser Phe Leu Asp Ala Pro Glu
 180 185 190
 Glu Ile Phe Ala Thr Val Leu Asn Tyr Leu Gly Lys Asp Pro Asn Ser
 195 200 205
 Ser Lys Ala Asp Asp Tyr Thr Gly Pro Ala Thr Asp Leu Leu Lys
 210 215 220
 Leu Arg Pro Asn Ile Arg Tyr Phe His Ser Ser Gln Tyr Ile Asn Asp
 225 230 235 240
 Leu Ala Asn Gly Asp Ile Cys Val Ala Ile Gly Trp Ala Gly Asp Val
 245 250 255
 Trp Gln Ala Ala Asn Arg Ala Lys Glu Ala Lys Asn Gly Val Asn Val
 260 265 270
 Ser Tyr Phe Ile Pro Lys Glu Gly Ala Leu Ala Phe Phe Asp Val Phe
 275 280 285
 Ala Met Pro Ala Asp Ala Lys Asn Lys Glu Glu Ala Tyr Gln Phe Leu
 290 295 300
 Asn Tyr Leu Met Arg Pro Asp Val Ile Ala His Ile Ser Asp His Val
 305 310 315 320
 Tyr Tyr Ala Asn Gly Asn Lys Ala Ser Glu Pro Leu Val Ser Glu Glu
 325 330 335
 Ile Arg Asn Asn Pro Ala Ile Tyr Pro Pro Ala Asp Val Phe Ala Lys
 340 345 350
 Leu Phe Thr Leu Lys Val Gln Glu Pro Lys Ile Asp Arg Val Arg Thr
 355 360 365
 Arg Ala Trp Thr Lys Val Lys Ser Gly Lys
 370 375

<210> 7094

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 7094

Gln Met Ile Glu Gly Leu Pro Met Lys Gln Ile Leu Leu Val Glu Asp
 1 5 10 15
 Asp His Asp Ile Ala Ala Leu Leu Arg Leu Asn Leu Glu Asp Glu Gly
 20 25 30
 Tyr Ala Ile Thr His Glu Pro Asp Gly Gly Asn Ala Leu Gln Arg Leu

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      35      40      45
Glu Thr Gln Pro Trp Asp Ala Val Ile Leu Asp Leu Met Leu Pro Asn
50      55      60
Val Asp Gly Leu Glu Ile Cys Arg Arg Ile Arg Gln Met Thr Arg Tyr
65      70      75      80
Leu Pro Ile Ile Ile Ile Ser Ala Arg Ser Ser Glu Thr Asp Arg Ile
      85      90      95
Thr Gly Leu Glu Thr Gly Ala Asp Asp Tyr Leu Ala Lys Pro Phe Ser
100      105      110
Val Gln Glu Leu Ile Ala Arg Ile Lys Ala Leu Phe Arg Arg Gln Gln
115      120      125
Ala Met Gly Gln Ala Gln Thr Asp Gly Ile Ile Gln Ala His Gly Leu
130      135      140
Thr Ile Asp Pro Leu Ala Arg Thr Val Arg Leu Asn Gly Gln His Val
145      150      155      160
Asp Leu Thr Pro Arg Glu Phe Glu Leu Leu Tyr Phe Phe Ala Arg His
      165      170      175
Pro Gly Glu Val Phe Ser Arg Leu Ala Leu Leu Glu Gln Val Trp Gly
180      185      190
Tyr Gln His Glu Gly Tyr Glu His Thr Val Asn Thr His Ile Asn Arg
195      200      205
Leu Arg Ile Lys Ile Glu Lys Asp Ala Ala Glu Pro Glu Ile Val Arg
210      215      220
Thr Val Trp Gly Lys Gly Tyr Lys Phe Ala Glu Gln Asn His Asp Ala
225      230      235
Ser Leu
240

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<210> 7095

<211> 699

<212> PRT

<213> Enterobacter cloacae

<400> 7095

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Leu Met Asn Lys Leu Phe Leu Leu Ser Gly Leu Ala Leu Ala Ile Ser
1      5      10      15
Ser Ala Cys His Ala Glu Leu Arg Thr Trp Pro Asp Pro Thr Gly Pro
20      25      30
Ser Gln Ser Asp Phe Gly Gly Thr Gly Leu Met Gln Met Pro Asp Ala
35      40      45
Arg Phe Gly Arg Glu Gly Glu Phe Ser Val Asn Tyr Arg Asp Asn Asn
50      55      60
Gln Tyr Arg Phe Tyr Ser Ser Ser Val Val Leu Phe Pro Trp Leu Glu
65      70      75      80
Gly Thr Ile Arg Tyr Thr Asp Val Arg Thr Arg Lys Tyr Ser Ser Asn
      85      90      95
Glu Asp Phe Ser Gly Asp Gln Ser Tyr Lys Asp Lys Ser Phe Asp Phe
100      105      110
Lys Val Arg Leu Trp Glu Glu Asp Tyr Ser Leu Pro Gln Val Ala Leu
115      120      125
Gly Lys Arg Asp Ile Ala Gly Tnr Gly Leu Phe Asp Gly Glu Tyr Leu
130      135      140
Val Ala Ser Lys Met Ala Gly Pro Val Asp Phe Thr Phe Gly Ile Ala
145      150      155      160
Trp Gly Tyr Pro Gly Asn Ser Asp Asn Val Gly Asn Pro Leu Cys His
      165      170      175
Asp Asn Asn Lys Tyr Cys Thr Arg Gly Glu Ser His Asp Ala Gly Asp
180      185      190
Ile Ser Phe Ser Asp Met Phe Arg Gly Pro Ala Ser Leu Phe Gly Gly
195      200      205
Leu Gln Tyr Gln Thr Pro Trp Gln Pro Leu Arg Leu Lys Leu Glu Tyr

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210	215	220
Asp Gly Asn Asn Tyr	Ala Asp Asp Phe	Ala Gly Ser Ile Lys Gln Ser
225	230	235
Ser His Ile Asn Val	Gly Ala Val Tyr Arg	Val Ala Asp Trp Ala Asp
245	250	255
Leu Asn Leu Ser Tyr	Glu Arg Gly Asn Thr	Leu Met Phe Gly Phe Thr
260	265	270
Leu Arg Thr Asn Phe	Asn Asp Leu Arg Pro	Ala Leu Arg Asp Asn Pro
275	280	285
Lys Pro Ala Trp Gln	Pro Ala Pro Ala Gly	Glu Thr Leu Asp Tyr Thr
290	295	300
Ser Ala Ala Asn Gln	Leu Thr Ala Leu Lys	Tyr Asn Ala Gly Phe Asp
305	310	315
Ala Pro Glu Ile Leu	Gln His Gly Asn Thr	Leu Tyr Met Thr Gly Glu
325	330	335
Gln Tyr Arg Tyr Arg	Asp Pro Arg Glu Ala	Val Asp Arg Ala Asn Arg
340	345	350
Ile Leu Ile Asn Asn	Leu Pro Asp Gly Val	Asp Thr Ile Ala Ile Thr
355	360	365
Gln Gln Arg Asp His	Leu Pro Leu Val Thr	Thr Gln Thr Asp Val Ala
370	375	380
Ser Leu Arg Lys Gln	Leu Ala Gly Gln Pro	Leu Gly Gln Glu Glu Ala
385	390	395
Leu Arg Gln Gln Arg	Val Glu Pro Val Asp	Thr Thr Ala Phe Gly Arg
405	410	415
Gly Tyr Arg Ile Arg	Ala Asp Arg Phe Ser	Tyr Ser Val Lys Pro Thr
420	425	430
Leu Ala Gln Ser Leu	Gly Gly Pro Glu Asp	Phe Tyr Met Phe Gln Val
435	440	445
Gly Val Met Ala Ser	Ala Ser Tyr Trp Leu	Thr Asp Arg Leu Leu Leu
450	455	460
Asp Gly Gly Val Phe	Ala Asn Leu Tyr Asn	Asn Tyr Asp Lys Phe Lys
465	470	475
Ser Ser Leu Leu Pro	Ala Asp Ser Ser Leu	Pro Arg Val Arg Thr His
485	490	495
Ile Arg Asp Tyr Val	Ser Asn Asp Val Tyr	Ile Asn Asn Leu Gln Ala
500	505	510
Asn Tyr Val Asp Ala	Leu Gly Asn Gly Phe	Tyr Ala Gln Ile Tyr Gly
515	520	525
Gly Tyr Leu Glu Thr	Met Tyr Gly Gly Val	Gly Ala Glu Ala Leu Trp
530	535	540
Arg Pro Leu Asp Ser	Asp Trp Ala Leu Gly	Val Asp Ala Asn Tyr Val
545	550	555
Lys Gln Arg Asp Trp	Asp Asp Met Met Arg	Phe Thr Asp Tyr Ser Val
565	570	575
Pro Thr Gly Phe Ile	Thr Ala Tyr Trp Asn	Pro Ala Lys Leu Asn Ser
580	585	590
Val Leu Met Lys Leu	Ser Val Gly Gln Tyr	Leu Ala Lys Asp Lys Gly
595	600	605
Ala Thr Leu Asp Val	Ala Lys Arg Phe Asp	Ser Gly Val Thr Val Gly
610	615	620
Val Trp Ala Ala Leu	Thr Asn Val Ser Lys	Glu Asp Tyr Gly Glu Gly
625	630	635
Gly Phe Ser Lys Gly	Phe Tyr Ile Ser Ile	Pro Leu Asp Leu Met Thr
645	650	655
Ile Gly Pro Asn Arg	Asn Arg Ala Val Val	Ser Trp Thr Pro Leu Thr
660	665	670
Arg Asp Gly Gly Gln	Met Leu Gly Arg Lys	Tyr Gln Leu Tyr Asp Met
675	680	685
Thr Ser Glu Arg Glu	Thr Pro Val Gly Gln	
690	695	

<210> 7096

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 7096

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Asn Arg Glu Ile Tyr Gln Asn Met Ala Lys Leu Thr Phe Asn Ala Ile
1      5      10      15
Leu Val Ile Cys Thr Gly Asn Ile Cys Arg Ser Pro Ile Gly Glu Arg
      20      25      30
Leu Leu Arg Arg Leu Leu Pro Ala Ala Arg Val Asp Ser Ala Gly Thr
      35      40      45
Cys Gly Leu Glu Gly Arg Thr Ala Asp Ser Gln Ala Thr Glu Ile Ala
      50      55      60
Ala Glu Arg Gly Thr Leu Leu Glu Gly His Val Ala Arg Arg Leu Thr
      65      70      75      80
Pro Ala Met Val Arg Asp Tyr Asp Leu Ile Leu Ala Met Glu Leu Glu
      85      90      95
His Ile Glu Gln Phe Thr Ala Ile Ala Pro Glu Ala Arg Gly Lys Met
      100      105      110
Met Leu Phe Gly His Trp Thr Gly Lys Lys Glu Ile Pro Asp Pro Thr
      115      120      125
Val Lys Pro Gly Thr His Leu Asn Met Phe Met Gly Cys Trp Ser Arg
      130      135      140
Pro Val Trp Asn Gly Arg Asn Gly Ser Val Asn His Thr Gly
      145      150      155

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<210> 7097

<211> 729

<212> PRT

<213> Enterobacter cloacae

<400> 7097

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Leu Arg Phe Met Ser Thr Asn Asn Leu His Ala His Asp Ala Ser Ala
1      5      10      15
Ala Asn Asn Glu Ile Asp Leu Val Arg Leu Leu Gly Glu Leu Asp
      20      25      30
His Arg Lys Phe Ile Leu Ile Leu Thr Ala Leu Phe Thr Leu Val Ala
      35      40      45
Leu Leu Tyr Ala Leu Phe Ala Thr Pro Val Tyr Gln Ala Asp Ala Leu
      50      55      60
Ile Gln Val Glu Gln Lys Gln Gly Asn Ala Leu Leu Ser Asn Leu Ser
      65      70      75      80
Glu Phe Ile Pro Asp Ser Ser Pro Glu Ser Ala Pro Glu Leu Gln Leu
      85      90      95
Leu Gln Ser Arg Met Ile Leu Gly Lys Thr Ile Asp Asp Leu Asn Leu
      100      105      110
Arg Thr Gln Val Ser Glu Asn Tyr Phe Pro Phe Val Gly Arg Gly Trp
      115      120      125
Ala Arg Leu Thr Gly Gln Gln Pro Gly Ile Val Asp Ile Arg Met Leu
      130      135      140
Asn Leu Pro Pro Val Ala Gly Arg Ala Gln Lys Leu Thr Leu Thr Val
      145      150      155      160
Gly Glu Lys Gly His Tyr Gln Leu Glu Gly Asp Asn Val Thr Leu Gln
      165      170      175
Gly Val Val Gly Gln Pro Leu Ser Ala Ala Asn Ile Ala Ile Thr Ile
      180      185      190
Ala Asp Ile Gln Ala Lys Pro Gly Thr Gln Phe Thr Ile Thr Gln Gln
      195      200      205
Ser Glu Leu Glu Ala Ile Asp Ala Leu Gln Leu Arg Phe Ser Val Ser

```

210		215		220	
Glu Arg Ser Lys Asp	Ser Gly Met Leu Gly Leu Thr Ile Thr Gly Glu				
225	230	235	240		
Asp Pro Asp Glu Met Ala Arg Val Leu Asn Cys Ile Ala Asp Asn Tyr					
245	250	255			
Leu Gln Gln Asn Val Ala Arg Gln Ala Ala Gln Asp Ala Lys Ser Leu					
260	265	270			
Gln Phe Leu Lys Gln Gln Leu Pro Gln Val Arg Ser Glu Leu Asp Gln					
275	280	285			
Ala Glu Glu Lys Leu Asn Arg Tyr Arg Gln Gln Asn Asp Ser Val Asp					
290	295	300			
Leu Asn Leu Glu Ala Lys Ala Val Leu Glu Gln Ile Val Asn Ala Asp					
305	310	315			
Asn Gln Leu Asn Glu Leu Thr Phe Arg Glu Ala Glu Ile Ser Gln Leu					
325	330	335			
Tyr Lys Lys Asp His Pro Thr Tyr Arg Ala Leu Ile Glu Lys Arg Gln					
340	345	350			
Thr Leu Glu Gln Glu Lys Asn Arg Leu Asn Lys Arg Val Ser Ser Met					
355	360	365			
Pro Ser Thr Gln Gln Glu Val Leu Arg Leu Ser Arg Asp Val Glu Ser					
370	375	380			
Gly Arg Val Ile Tyr Gln Gln Leu Leu Asn Arg Glu Gln Glu Leu Ser					
385	390	395			
Ile Ala Arg Ser Ser Ala Ile Gly Asn Val Arg Ile Ile Asp Pro Ala					
405	410	415			
Val Thr Arg Pro Gln Pro Val Lys Pro Lys Lys Ala Leu Val Val Val					
420	425	430			
Leu Gly Val Leu Leu Gly Leu Phe Val Ser Ala Gly Trp Ile Leu Ala					
435	440	445			
Arg Ser Met Leu Arg Met Gly Ile Glu Thr Pro Glu Gln Leu Glu Glu					
450	455	460			
His Gly Ile Asn Val Tyr Ala Thr Val Pro Leu Ser Glu Trp Leu Ala					
465	470	475			
Lys Lys Met Arg Leu Arg Lys Lys Asp Phe Met Ser Pro Gly Leu Arg					
485	490	495			
His Lys Thr Lys His Ile Pro Phe Leu Ala Ala Asp Asn Pro Val Asp					
500	505	510			
Leu Ser Val Glu Ala Ile Arg Gly Leu Arg Thr Ser Leu His Phe Ala					
515	520	525			
Met Met Glu Ser Ala Asn Asn Ile Leu Met Ile Ser Gly Ala Thr Pro					
530	535	540			
Asp Ser Gly Lys Thr Phe Val Ser Ser Thr Leu Ala Ala Val Val Ala					
545	550	555			
Gln Ala Gly Gln Lys Val Leu Tyr Ile Asp Ala Asp Met Arg Arg Gly					
565	570	575			
Tyr Ala His Asp Leu Phe Lys Leu Asp Asn Thr Cys Gly Leu Ser Glu					
580	585	590			
Ile Leu Ser Gly Lys Ala Glu Tyr Thr Gln Gly Val Gln Thr Phe Asp					
595	600	605			
Lys Gly Gly Phe Asp Thr Ile Val Arg Gly Gln Ile Pro Pro Asn Pro					
610	615	620			
Ala Glu Leu Leu Met His Thr Arg Phe Gln Gln Leu Leu Asp Trp Ala					
625	630	635			
Asn Glu Arg Tyr Asp Leu Val Ile Ile Asp Thr Pro Pro Ile Leu Ala					
645	650	655			
Val Thr Asp Ala Val Val Gly Arg Arg Ala Gly Thr Thr Leu Leu					
660	665	670			
Val Ala Arg Phe Gly Met Asn Ser Val Lys Glu Met Leu Val Cys Val					
675	680	685			
Gln Arg Leu Glu Gln Ser Gly Val Asn Thr Lys Gly Val Ile Leu Asn					
690	695	700			

Gly Val Val Lys Arg Ala Ser Asn Ala Tyr Gly Tyr Gly Tyr His His
 705 710 715 720
 Tyr Gly Tyr Asn Tyr Ser Ser Asn
 725

<210> 7098

<211> 606

<212> PRT

<213> *Enterobacter cloacae*

<400> 7098

Leu Asn Phe Ala Cys Arg Phe Gln Leu Leu Pro Ser Phe Cys Cys Asn
 1 5 10 15
 Lys Asn Asn Ala Leu Lys Arg Ala Arg Lys Met His Phe Cys Ser Trp
 20 25 30
 Ser Ala Ala Pro Gly Gln Gly Ile Pro Phe Ala Lys Gln Gly Gly Val
 35 40 45
 Ile Met Val Lys Trp Ile Ser Ile Leu Met Ile Phe Leu Ser Ser Gly
 50 55 60
 Ala Met Ala Ile Cys Pro Val Trp Ser Pro Ala Lys Ala Gly Gln Glu
 65 70 75 80
 Ile Ala Ala Leu Lys Ala Gln Leu Thr Arg Trp Asn Glu Asp Tyr Trp
 85 90 95
 Lys Gln Gly Ser Ser Glu Val Ser Asp Asp Val Tyr Asp Arg Leu Asn
 100 105 110
 Ala Arg Leu Lys Gln Trp Gln Arg Cys Phe His Asp Glu Pro Leu His
 115 120 125
 Asp Asp Pro Pro Ala Ala Ser Gly Thr Val Lys His Pro Phe Ala His
 130 135 140
 Thr Gly Val His Lys Val Glu Ser Lys Gln Ala Leu Ser Arg Trp Met
 145 150 155 160
 Ala Thr Gln Gln Asp Leu Trp Val Gln Pro Lys Val Asp Gly Val Ala
 165 170 175
 Val Thr Leu Val Tyr Lys Asn Gly Lys Leu Ala Gln Ala Ile Ser Arg
 180 185 190
 Gly Asp Gly Leu Gln Gly Glu Glu Trp Thr Ala Gln Ala Arg Met Ile
 195 200 205
 Pro Ala Ile Pro Gln Thr Leu Ala Gly Pro Leu Ala Asn Ser Val Leu
 210 215 220
 Gln Gly Glu Leu Phe Leu Leu Arg Glu Gly His Ile Gln Gln Arg Met
 225 230 235 240
 Gly Gly Met Asn Ala Arg Ala Lys Val Ala Gly Ala Met Met Arg Ala
 245 250 255
 Thr Asp Arg Ala Ala Leu Lys Gln Thr Gly Ile Phe Ile Trp Ala Trp
 260 265 270
 Pro Asn Gly Pro Lys Val Met Lys Ala Arg Leu Ser Ala Leu Ala Glu
 275 280 285
 Ala Gly Phe Thr Leu Thr Ala Arg Tyr Thr Leu Pro Val Lys Asn Ala
 290 295 300
 Ala Asp Val Glu Ala Gln Arg Thr Ala Trp Phe Lys Ala Ser Leu Pro
 305 310 315 320
 Phe Ala Thr Asp Gly Ile Val Val Arg Ala Ser Ala Glu Pro Pro Gly
 325 330 335
 Glu Glu Trp Leu Pro Gly Glu Gly Ser Trp Val Val Ala Trp Lys Tyr
 340 345 350
 Leu Pro Val Ala Gln Val Thr Glu Val Lys Ala Ile His Phe Thr Val
 355 360 365
 Gly Arg Thr Gly Arg Ile Thr Ala Ile Ala Gln Leu Glu Pro Leu Met
 370 375 380
 Leu Asp Asp Lys Arg Val Gln Arg Val Ser Leu Gly Ser Val Asn Arg
 385 390 395 400

Trp Gln Arg Leu Asp Ile Ala Pro Gly Asp Gln Val Leu Val Ser Leu
 405 410 415
 Ala Gly Gln Gly Ile Pro Arg Leu Asp Asn Val Val Trp Arg Asn Val
 420 425 430
 Asp Arg Arg Lys Pro Gln Pro Pro Ser Arg Tyr Asn Gly Leu Thr
 435 440 445
 Cys Phe Tyr Ala Ser Pro Glu Cys Met Glu Gln Phe Phe Ala Arg Leu
 450 455 460
 Thr Trp Leu Ser Ser Arg Gln Ala Leu Asp Ile Glu Gly Met Gly Glu
 465 470 475 480
 Ser Gly Trp Arg Thr Leu Tyr Gln Ala His Arg Phe Glu His Leu Phe
 485 490 495
 Ser Trp Leu Gln Leu Thr Gln Ala Gln Leu Thr Ala Thr Pro Gly Ile
 500 505 510
 Ser Ala Ser His Gly Ala Ala Leu Trp His Gln Phe Asn Leu Ala Arg
 515 520 525
 Glu Arg Pro Phe Ile Arg Trp Ile Thr Ala Met Gly Ile Pro Leu Ala
 530 535 540
 Arg Ser Thr Leu Lys Ala Ala Gly Asp Arg Thr Trp Gln Ala Leu Ile
 545 550 555 560
 Gln Arg Ser Glu Ala Glu Trp Arg Met Leu Pro Gly Val Gly Gln Glu
 565 570 575
 Lys Ala Arg Gln Ile Val Asn Trp Leu His Gln Pro Gln Ile Asp Ala
 580 585 590
 Leu Ala Lys Trp Leu Ala Ala Glu His Ile Gly Gly Phe
 595 600 605

<210> 7099

<211> 275

<212> PRT

<213> *Enterobacter cloacae*

<400> 7099

Phe Arg Tyr Arg Pro Gly Thr Pro Glu Arg Thr Asp Ala Arg Arg Gly
 1 5 10 15
 Arg Ile Pro Cys Arg His Asp Asp Val Glu Ala Arg Pro Met Asn Arg
 20 25 30
 Leu Arg Lys Trp Leu Pro Gly Val Gly Leu Ser Leu Phe Ser Leu Ser
 35 40 45
 Ala Leu Cys Ala Ser Val Val Thr Val His Gln Pro Gly Lys Thr Trp
 50 55 60
 Ser Ala Glu Pro Ala Asp Thr Leu Ser Arg Leu Val Thr Gln Pro Gln
 65 70 75 80
 Leu Asn Asn Val Trp Trp Gln Gly Ala Val Ile Ala Thr Pro Ser Ala
 85 90 95
 Thr Leu Arg Ala Gln Gln Thr Gln Gln Val Leu Ala Ser Leu Ser
 100 105 110
 Val Trp Gln Asn Arg Thr Asp Asp Glu Arg Ile Ala Thr Ile Arg Ala
 115 120 125
 Val Ala Ala Gln Ile Arg Ser Leu Arg Ile Val Gly Arg Gln Phe Val
 130 135 140
 Ser Leu Asp Pro Asp Ala Val Arg Thr Asp Ala Arg Gly Asp Arg Phe
 145 150 155 160
 Leu Glu Gly Arg Tyr Asp Leu Trp Leu Ser Pro Ala Pro Arg Thr Val
 165 170 175
 Thr Leu Met Gly Ala Val Val Thr Pro Gly Lys Arg Ala Trp Arg Pro
 180 185 190
 Gly Ala Ser Ile Arg Asp Tyr Leu Gln Gly Gln Leu Arg Leu Ala Gly
 195 200 205
 Ala Asp Arg Asn Asn Val Thr Val Ile Asp Pro Asp Gly Ser Thr Val
 210 215 220

Val Ala Pro Val Ala Tyr Trp Asn Ala Arg His Ile Glu Ala Glu Pro
 225 230 240
 Gly Ala Val Leu Trp Val Gly Phe Asp Pro Arg Ala Val Pro Asp Asp
 245 250 255
 Phe Thr Gly Leu Asn Glu Gln Ile Val Ala Leu Leu Thr Arg Arg Ile
 260 265 270

Pro Asp
 275

<210> 7100

<211> 378

<212> PRT

<213> *Enterobacter cloacae*

<400> 7100

Met Lys Asn Val Lys Phe Ser Val Leu Ala Leu Ala Met Met Ala Leu
 1 5 10 15
 Ser Gly Cys Thr Ile Val Pro Gly Gln Gly Leu Ser Thr Gln Gly Lys
 20 25 30
 Asp Ile Ile Asp Leu Pro Asp Ser Asn Tyr Asp Leu Asn Lys Met Val
 35 40 45
 Asn Val Tyr Pro Leu Thr Pro Gly Leu Val Glu Gln Leu Leu Pro Gly
 50 55 60
 Lys Val Asp Ser Arg Ala Asn Pro Glu Leu Asp Arg Gln Leu Gln Asn
 65 70 75 80
 Tyr Gln Tyr Cys Ile Gly Val Gly Asp Val Leu Met Val Thr Val Trp
 85 90 95
 Asp His Pro Glu Leu Thr Thr Pro Ala Gly Gln Tyr Arg Ser Ala Ser
 100 105 110
 Asp Thr Gly Asn Trp Val Asn Ala Asp Gly Thr Ile Phe Tyr Pro Tyr
 115 120 125
 Ile Gly Lys Ile Arg Val Val Gly Lys Thr Leu Ala Gln Val Arg Asp
 130 135 140
 Glu Ile Ala Ala Arg Leu Asp Ser Val Ile Glu Ser Pro Gln Val Asp
 145 150 155 160
 Val Ser Val Ala Ala Phe Arg Ser Gln Lys Ala Tyr Val Thr Gly Glu
 165 170 175
 Val Ala Lys Ser Gly Gln Gln Pro Ile Thr Asn Ile Pro Leu Thr Ile
 180 185 190
 Met Asp Ala Ile Asn Ala Ala Gly Gly Leu Thr Ser Glu Ala Asp Trp
 195 200 205
 Arg His Val Val Leu Thr His Asn Gly Gln Asp Thr His Ile Ser Leu
 210 215 220
 Tyr Ala Leu Met Gln Arg Gly Asp Leu Thr Gln Asn Lys Leu Leu Tyr
 225 230 235 240
 Pro Gly Asp Ile Leu Phe Ile Pro Arg Asn Asp Asp Leu Lys Val Phe
 245 250 255
 Val Met Gly Glu Val Gly Lys Gln Ser Thr Gln Lys Met Asp Arg Ser
 260 265 270
 Gly Met Thr Leu Ala Glu Ala Leu Gly Asn Ala Gln Gly Val Asn Gln
 275 280 285
 Asp Met Ala Asp Ala Thr Gly Ile Phe Val Ile Arg Pro Leu Gln Gly
 290 295 300
 Lys Gln Asn Gly Lys Ile Ala Asn Val Tyr Gln Leu Asn Ala Arg Asp
 305 310 315 320
 Ala Thr Ala Met Val Leu Ser Thr Glu Phe Gln Leu Glu Pro Tyr Asp
 325 330 335
 Ile Val Tyr Val Thr Thr Ala Pro Leu Val Arg Trp Asn Arg Val Ile
 340 345 350
 Ser Gln Leu Val Pro Thr Ile Thr Gly Val His Asp Leu Thr Glu Thr
 355 360 365

Gly Arg Tyr Ile Arg Thr Trp Pro Asn
370 375

<210> 7101

<211> 226

<212> PRT

<213> *Enterobacter cloacae*

<400> 7101

Leu Ile Ser Met Leu Phe Asn Gln Gly Phe Leu Val Arg Leu Phe Ile
1 5 10 15
Leu Leu Ile Met Thr Leu Leu Ile Gln Gly Cys Thr Pro Ser Gln Gln
20 25 30
Ser Ile Ile Glu Thr Phe Asn Ala Ser Leu Asp Gly Arg Gln Asp Val
35 40 45
Thr Val Thr Asp Gly Gln Ile Gln Ala Phe Pro Tyr Ser Thr Met Tyr
50 55 60
Leu Arg Leu Asp Asn Gly Pro Arg Ile Leu Val Val Leu Gly Tyr Ile
65 70 75 80
Glu Gln Gly Asn Ser Lys Trp Leu Ser Gln Asp Asn Ala Met Ile Val
85 90 95
Thr His Asn Gly Arg Leu Ile His Thr Leu Lys Leu Pro Tyr Asn Leu
100 105 110
Leu Glu Val Thr Asn Leu Glu His Asp Pro Leu Arg His Thr Pro Gln
115 120 125
Leu Arg Asp Gly Ser Gln Trp Ser Arg Asp Val Arg Trp Gln Glu Glu
130 135 140
Gly Arg Tyr Arg Ser Ala His Leu Asn Ser Arg Phe Ser Leu Ser Gly
145 150 155 160
Thr Glu Asn Leu Thr Leu Ala Gly Asn Thr Leu Arg Cys Gln Val Trp
165 170 175
Gln Glu Ala Val Gln Ala Asp Gly Leu Asp Arg Arg Trp His Asn Thr
180 185 190
Phe Trp Ile Asp Ser Ala Thr Gly Gln Val Arg Gln Ser Glu Gln Met
195 200 205
Leu Gly Ala Gly Val Phe Pro Val Ala Met Thr Met Leu Lys Pro Ala
210 215 220
Pro
225

<210> 7102

<211> 83

<212> PRT

<213> *Enterobacter cloacae*

<400> 7102

Gly Pro Arg Gly Ala Gln Ala His Pro Arg His Gly Ala Arg Leu Arg
1 5 10 15
Ser Asp Ser Gly Asp Gly Ala Gly Thr Tyr Arg Ala Val His Gly Tyr
20 25 30
Arg Thr Gly Gly Ala Arg Gln Asn Asp Ala Leu Trp Ser Leu Asp Gly
35 40 45
Gln Lys Arg Asp Pro Gly Pro His Arg Lys Thr Arg Asp Ala Phe Glu
50 55 60
Tyr Val Tyr Gly Leu Leu Glu Gln Ala Ser Leu Glu Trp Ala Lys Arg
65 70 75 80
Leu Ser

<210> 7103

<211> 280

<212> PRT

<213> *Enterobacter cloacae*

<400> 7103

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Thr Phe Pro Phe Leu Lys Glu Arg Trp Gly Asp Tyr Ser Phe Gln Gly
1      5      10      15
Leu Leu Arg Ile Gly Ile Ser Val Leu Tyr Pro Tyr Asn Ala Gln Pro
20      25      30
His Ser Phe Gln Ala Gly Glu Ser Ile Met Arg Pro Ala Gly Arg Asn
35      40      45
Ala Asn Gln Val Arg Pro Val Thr Leu Thr Arg Asn Tyr Thr Lys His
50      55      60
Ala Glu Gly Ser Val Leu Val Glu Phe Gly Asp Thr Lys Val Leu Cys
65      70      75      80
Thr Ala Ser Ile Glu Lys Gly Val Pro Arg Phe Leu Lys Gly Gln Gly
85      90      95
Gln Gly Trp Ile Thr Ala Glu Tyr Cys Met Leu Pro Arg Ala Thr His
100     105     110
Thr Arg Asn Ala Arg Glu Ala Ala Lys Gly Lys Gln Gly Arg Thr
115     120     125
Met Glu Ile Gln Arg Leu Ile Ala Arg Ala Leu Arg Ala Ala Val Asp
130     135     140
Leu Lys Thr Leu Gly Glu Phe Thr Ile Thr Leu Asp Cys Asp Val Ile
145     150     155     160
Gln Ala Asp Gly Gly Thr Arg Thr Ala Ser Ile Thr Gly Ala Cys Val
165     170     175
Ala Leu Ala Asp Ala Leu Asn Lys Leu Val Ala Ala Gly Lys Leu Lys
180     185     190
Thr Asn Pro Met Lys Gly Met Val Ala Ala Val Ser Val Gly Ile Val
195     200     205
Asn Gly Glu Ala Leu Cys Asp Leu Glu Tyr Val Glu Asp Ser Ala Ala
210     215     220
Glu Thr Asp Met Asn Val Val Met Thr Glu Asp Gly Arg Ile Ile Glu
225     230     235     240
Val Gln Gly Thr Ala Glu Gly Glu Pro Phe Thr His Glu Glu Leu Leu
245     250     255
Thr Leu Leu Ala Leu Ala Arg Gly Gly Ile Glu Ser Ile Val Ala Thr
260     265     270
Gln Lys Ala Ala Leu Glu Asn
275     280

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<210> 7104

<211> 230

<212> PRT

<213> *Enterobacter cloacae*

<400> 7104

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Val Ala Phe Phe Leu Pro Val Arg Leu Lys Arg Gln Arg Ser Lys Ser
1      5      10      15
Met Lys Ser Tyr Gln Arg Gln Phe Ile Glu Phe Ala Leu Asn Lys Gln
20      25      30
Val Leu Lys Phe Gly Glu Phe Thr Leu Lys Ser Gly Arg Lys Ser Pro
35      40      45
Tyr Phe Phe Asn Ala Gly Leu Phe Asn Thr Gly Arg Asp Leu Ala Leu
50      55      60
Leu Gly Arg Phe Tyr Ala Glu Ala Leu Val Asp Ser Gly Ile Asp Phe
65      70      75      80
Asp Leu Leu Phe Gly Pro Ala Tyr Lys Gly Ile Pro Ile Ala Thr Thr
85      90      95
Thr Ala Val Ala Leu Ala Glu His His Asp Arg Asp Val Pro Tyr Cys
100     105     110

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Phe Asn Arg Lys Glu Ala Lys Thr His Gly Glu Gly Asn Leu Val
 115 120 125
 Gly Ser Ala Leu Gln Gly Arg Val Met Leu Val Asp Asp Val Ile Thr
 130 135 140
 Ala Gly Thr Ala Ile Arg Glu Ser Met Glu Ile Ile Gln Ala Asn Gly
 145 150 155 160
 Ala Thr Leu Ala Gly Val Leu Ile Ser Leu Asp Arg Gln Glu Arg Gly
 165 170 175
 Arg Gly Asp Ile Ser Ala Ile Gln Glu Val Glu Arg Asp Tyr Asn Cys
 180 185 190
 Lys Val Thr Ser Ile Ile Thr Leu Lys Asp Leu Ile Ala Tyr Leu Glu
 195 200 205
 Glu Lys Pro Glu Met Ala Asp His Leu Ala Ala Val Arg Gln Tyr Arg
 210 215 220
 Glu Glu Phe Gly Val
 225 230

<210> 7105

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 7105

Arg Thr Pro Asp Ile Val Ala Gly Val Ala Ala Leu Lys Thr Leu Val
 5 10 15
 Pro Asn Val Val Gly Phe Ala Ala Glu Thr Asn Asn Val Glu Glu Tyr
 20 25 30
 Ala Arg Gln Lys Arg Thr Arg Lys Asn Leu Asp Leu Ile Cys Ala Asn
 35 40 45
 Asp Val Ser Leu Ser Thr Gln Gly Phe Asn Ser Asp Arg Gln Arg Ile
 50 55 60
 Ala Pro Phe Leu Ala Gly Trp Arg
 65 70

<210> 7106

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 7106

Cys Asn Asn Lys Pro Gln Thr Ser Val Cys Gly Ser Leu Cys Gly Cys
 1 5 10 15
 Gln Pro Asp Lys Cys Leu Phe Ser Gly Val Phe Cys Asn Met Ala Glu
 20 25 30
 Lys Gln Thr Ala Lys Arg Asn Arg Arg Glu Glu Ile Leu Gln Ser Leu
 35 40 45
 Ala Leu Met Leu Glu Ser Ser Asp Gly Ser Gln Arg Ile Thr Thr Ala
 50 55 60
 Lys Leu Ala Ala Ser Val Gly Val Ser Glu Ala Ala Leu Tyr Arg His
 65 70 75 80
 Phe Pro Ser Lys Thr Arg Met Phe Asp Ser Leu Ile Glu Phe Ile Glu
 85 90 95
 Asp Ser Leu Ile Thr Arg Ile Asn Leu Ile Leu Lys Asp Glu Lys Asp
 100 105 110
 Thr Ser Thr Arg Leu Arg Leu Ile Val Leu Leu Ile Leu Gly Phe Gly
 115 120 125
 Glu Arg Asn Pro Gly Leu Thr Arg Ile Leu Thr Gly His Ala Leu Met
 130 135 140
 Phe Glu Gln Asp Arg Leu Gln Gly Arg Ile Asn Gln Leu Phe Glu Arg
 145 150 155 160
 Ile Glu Ala Gln Leu Arg Gln Val Leu Arg Glu Lys Lys Met Arg Glu

Asp Glu Gly Tyr Asn Thr Asp Glu Thr 165 170 175
 180 185 190
 Ala Phe Cys Glu Gly Met Leu Ser Arg Phe Val Arg Ser Glu Phe Lys
 195 200 205
 Tyr Arg Pro Thr Asp Asp Phe Asp Ala Arg Trp Pro Leu Val Ala Ala
 210 215 220
 Gln Leu Gln
 225

<210> 7107

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 7107

Glu Ala Pro Glu Ser Tyr Asn Pro Pro Ile Ser Pro Leu Lys Thr Gly
 1 5 10 15
 Met Ser Met Ile Arg Ser Met Thr Ala Tyr Ala Arg Arg Glu Ile Lys
 20 25 30
 Gly Ser Trp Gly Ser Ala Thr Trp Glu Met Arg Ser Val Asn Gln Arg
 35 40 45
 Tyr Leu Glu Thr Tyr Phe Arg Met Pro Glu Gln Phe Arg Ser Leu Glu
 50 55 60
 Pro Val Val Arg Glu Arg Ile Arg Thr Arg Leu Thr Arg Gly Lys Val
 65 70 75 80
 Glu Cys Asn Leu Arg Phe Glu Pro Asp Ala Ser Ala Gln Gly Glu Leu
 85 90 95
 Ile Leu Asn Glu Lys Leu Ala Lys Gln Leu Val Asn Ala Ala Asn Trp
 100 105 110
 Val Lys Met Gln Ser Asp Glu Gly Glu Ile Asn Pro Val Asp Ile Leu
 115 120 125
 Arg Trp Pro Gly Val Met Ala Ala Gly Glu Gln Asp Leu Asp Ala Ile
 130 135 140
 Thr Ala Glu Ile Leu Ala Ala Leu Asp Gly Thr Leu Asp Asp Phe Ile
 145 150 155 160
 Val Ala Arg Glu Thr Glu Gly Gln Ala Leu Lys Ala Met Ile Glu Gln
 165 170 175
 Arg Leu Glu Gly Val Ser Ala Glu Val Ala Lys Val Arg Ala His Met
 180 185 190
 Pro Glu Val Leu Gln Trp Gln Arg Glu Arg Leu Val Ala Lys Leu Glu
 195 200 205
 Glu Ala Glu Val Gln Leu Glu Asn Asn Arg Leu Glu Gln Glu Leu Val
 210 215 220
 Leu Met Ala Gln Arg Val Asp Val Ala Glu Glu Leu Asp Arg Leu Glu
 225 230 235 240
 Ala His Val Lys Glu Thr Tyr Asn Ile Leu Lys Lys Lys Glu Ala Val
 245 250 255
 Gly Arg Arg Leu Asp Phe Met Met Gln Glu Phe Asn Arg Glu Ser Asn
 260 265 270
 Thr Leu Ala Ser Lys Ser Ile Asn Ala Glu Val Thr Asn Ser Ala Ile
 275 280 285
 Glu Leu Lys Val Leu Ile Glu Gln Met Arg Glu Gln Ile Gln Asn Ile
 290 295 300
 Glu
 305

<210> 7108

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 7108

His Ile Gln Lys Thr Leu Met Ala Gln Gly Thr Leu Tyr Ile Val Ser
 1 5 10 15
 Ala Pro Ser Gly Ala Gly Lys Ser Ser Leu Ile Gln Ala Leu Leu Lys
 20 25 30
 Thr Gln Pro Leu Tyr Asp Thr Gln Val Ser Val Ser His Thr Thr Arg
 35 40 45
 Ala Pro Arg Pro Gly Glu Val His Gly Glu His Tyr Phe Phe Val Asn
 50 55 60
 His Asp Glu Phe Arg Ala Met Ile Gly Arg Asp Ala Phe Leu Glu His
 65 70 75 80
 Ala Glu Val Phe Gly Asn Tyr Tyr Gly Thr Ser Arg Glu Thr Ile Glu
 85 90 95
 Gln Val Leu Ala Thr Gly Val Asn Val Phe Leu Asp Ile Asp Trp Gln
 100 105 110
 Gly Ala Gln Gln Ile Arg Lys Lys Met Pro Asp Ser Arg Ser Ile Phe
 115 120 125
 Ile Leu Pro Pro Ser Lys Asp Glu Leu Asp Arg Arg Leu Arg Gly Arg
 130 135 140
 Gly Gln Asp Ser Glu Glu Val Ile Ala Lys Arg Met Ala Gln Ala Val
 145 150 155 160
 Ala Glu Met Ser His Tyr Ala Glu Tyr Asp Tyr Leu Ile Val Asn Asp
 165 170 175
 Asp Phe Asp Ala Pro Leu Ser Asp Arg Phe His Gln Arg Arg Pro Glu
 180 185 190
 Gly

<210> 7109

<211> 215

<212> PRT

<213> *Enterobacter cloacae*

<400> 7109

Ser Pro Ser Leu His Ser Gly Gly Phe Met Leu Leu His Ile Leu Tyr
 1 5 10 15
 Leu Ile Gly Ile Thr Ala Glu Ala Met Thr Gly Ala Leu Ala Ala Gly
 20 25 30
 Arg Arg Arg Met Asp Thr Phe Gly Val Ile Ile Ile Ala Thr Ala Thr
 35 40 45
 Ala Leu Gly Gly Gly Ser Val Arg Asp Ile Leu Leu Gly His Tyr Pro
 50 55 60
 Leu Gly Trp Val Lys Asn Pro Glu Tyr Val Ile Ile Val Ala Thr Ala
 65 70 75 80
 Ala Val Leu Thr Thr Ile Val Ala Pro Val Met Pro His Leu Arg Arg
 85 90 95
 Val Phe Leu Val Leu Asp Ala Leu Gly Leu Ile Val Phe Ser Ile Ile
 100 105 110
 Gly Ala Gln Ile Ala Leu Asp Met Gly Glu Gly Pro Val Ile Ala Thr
 115 120 125
 Ile Ala Ala Val Ile Thr Gly Val Phe Gly Gly Val Leu Arg Asp Met
 130 135 140
 Phe Cys Lys Arg Ile Pro Leu Val Phe Gln Lys Glu Leu Tyr Ala Gly
 145 150 155 160
 Ile Ser Phe Ala Ala Val Leu Tyr Val Ala Leu Gln His Tyr Val
 165 170 175
 Thr Ser His Asp Val Val Val Ile Ser Thr Leu Leu Phe Gly Phe Thr
 180 185 190
 Ala Arg Met Leu Ala Leu Arg Leu Lys Leu Gly Leu Pro Val Phe His
 195 200 205

Tyr Lys His Asn Ala His
210 215

<210> 7110
<211> 190
<212> PRT
<213> Enterobacter cloacae

<400> 7110
Gln Arg Gln Ala Thr His Cys Thr Phe Ser Gly Arg Met Glu Ile Lys
1 5 10 15
Ser Tyr Arg Leu Ser Ala Lys Asn Ser Trp Ala Asn Thr Tyr Trp Thr
20 25 30
Arg Ser Leu Pro Val Met Met Lys Lys Ile Asp Val Lys Ile Leu Asp
35 40 45
Pro Arg Val Gly Glu Gln Phe Pro Leu Pro Thr Tyr Ala Thr Ser Gly
50 55 60
Ser Ala Gly Leu Asp Leu Arg Ala Cys Leu Asp Asp Ala Val Glu Leu
65 70 75 80
Ala Pro Gly Ala Thr Thr Leu Ile Pro Thr Gly Leu Ala Ile His Ile
85 90 95
Ala Asp Pro Ser Leu Ala Ala Val Ile Leu Pro Arg Ser Gly Leu Gly
100 105 110
His Lys His Gly Val Val Leu Gly Asn Leu Val Gly Leu Ile Asp Ser
115 120 125
Asp Tyr Gln Gly Gln Leu Met Val Ser Val Trp Asn Arg Gly Gln Asp
130 135 140
Ser Phe Thr Ile Glu Pro Gly Glu Arg Ile Ala Gln Met Val Phe Val
145 150 155 160
Pro Val Val Gln Ala Glu Phe Asn Leu Val Ala Asp Phe Asp Ala Thr
165 170 175
Asp Arg Gly Glu Gly Gly Phe Gly His Ser Gly Arg Lys
180 185 190

<210> 7111
<211> 526
<212> PRT
<213> Enterobacter cloacae

<400> 7111
Phe Ala Ala Gly Glu Cys Phe Pro Arg Met Arg Ile Ser Phe Ser Val
1 5 10 15
Leu Ala Ser Pro Ser Asp Asp Phe Met Asp Ala Leu Leu Gln Leu Lys
20 25 30
Gly Ile Asp Lys Ser Phe Pro Gly Val Lys Ala Leu Ser Gly Ala Ala
35 40 45
Leu Asn Val Tyr Ser Gly Arg Val Met Ala Leu Val Gly Glu Asn Gly
50 55 60
Ala Gly Lys Ser Thr Met Met Lys Val Leu Thr Gly Ile Tyr Gln Arg
65 70 75 80
Asp Ala Gly Ser Leu Leu Trp Leu Gly Lys Glu Thr Thr Phe Asn Gly
85 90 95
Pro Lys Ser Ser Gln Glu Ala Gly Ile Gly Ile Ile His Gln Glu Leu
100 105 110
Asn Leu Ile Pro Gln Leu Thr Ile Ala Glu Asn Ile Phe Leu Gly Arg
115 120 125
Glu Phe Val Asn Arg Phe Gly Lys Ile Asp Trp Lys Thr Met Tyr Ala
130 135 140
Glu Ala Asp Lys Leu Leu Ala Lys Leu Asn Leu Arg Phe Lys Ser Asp
145 150 155 160
Arg Leu Val Gly Asp Leu Ser Ile Gly Asp Gln Gln Met Val Glu Ile

165 170 175
 Ala Lys Val Leu Ser Phe Glu Ser Lys Val Ile Ile Met Asp Glu Pro
 180 185 190
 Thr Asp Ala Leu Thr Asp Thr Glu Thr Glu Ser Leu Phe Arg Val Ile
 195 200 205
 Arg Glu Leu Lys Ser Gln Gly Arg Gly Ile Val Tyr Ile Ser His Arg
 210 215 220
 Met Lys Glu Ile Phe Glu Ile Cys Asp Asp Val Thr Val Phe Arg Asp
 225 230 235 240
 Gly Gln Phe Ile Ala Glu Arg Glu Val Ala Thr Leu Thr Glu Asp Ser
 245 250 255
 Leu Ile Glu Met Met Val Gly Arg Lys Leu Glu Asp Gln Tyr Pro His
 260 265 270
 Leu Glu Lys Ala Pro Gly Glu Ile Arg Leu Lys Val Asp Asn Leu Cys
 275 280 285
 Gly Pro Gly Val Asn Asp Val Ser Phe Thr Leu Arg Lys Gly Glu Ile
 290 295 300
 Leu Gly Val Ala Gly Leu Met Gly Ala Gly Arg Thr Glu Leu Met Lys
 305 310 315 320
 Val Leu Tyr Gly Ala Leu Pro Arg Thr Ser Gly Tyr Val Thr Leu Asp
 325 330 335
 Gly His Glu Val Val Thr Arg Ser Pro Gln Asp Gly Leu Ala Asn Gly
 340 345 350
 Ile Val Tyr Ile Ser Glu Asp Arg Lys Arg Asp Gly Leu Val Leu Gly
 355 360 365
 Met Ser Val Lys Glu Asn Met Ser Leu Thr Ala Leu Gly Tyr Phe Ser
 370 375 380
 Arg Ser Gly Gly Ser Leu Lys His Lys Asp Glu Gln Gln Ala Val Ser
 385 390 395 400
 Asp Phe Ile Arg Leu Phe Asn Val Lys Thr Pro Ser Met Glu Gln Ala
 405 410 415
 Ile Gly Leu Leu Ser Gly Gly Asn Gln Gln Lys Val Ala Ile Ala Arg
 420 425 430
 Gly Leu Met Thr Arg Pro Lys Val Leu Ile Leu Asp Glu Pro Thr Arg
 435 440 445
 Gly Val Asp Val Gly Ala Lys Lys Glu Ile Tyr Gln Leu Ile Asn Gln
 450 455 460
 Phe Lys Ala Asp Gly Leu Ser Ile Ile Leu Val Ser Ser Glu Met Pro
 465 470 475 480
 Glu Val Leu Gly Met Ser Asp Arg Ile Ile Val Met His Glu Gly His
 485 490 495
 Leu Gly Gly Glu Phe Thr Arg Glu Gln Ala Thr Gln Glu Val Leu Met
 500 505 510
 Ala Ala Ala Val Gly Lys Leu Asn Arg Val Asn Gln Glu
 515 520 525

<210> 7112

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 7112

Ser Ser Pro Ser Ala Ala Val Gly Cys Gly Leu Ala Ser Met Ala Lys
 1 5 10 15
 Val Val Ala Cys Arg Ala Leu Arg Ser Lys Pro Leu Ile Pro Ser Pro
 20 25 30
 Gln Gly Asp Thr Phe Asn Gly Ala Leu Val Thr Ala Leu Leu Glu Gly
 35 40 45
 Lys Ala Met Asp Asp Ala Ile Arg Phe Ala His Ala Ala Ala Ile
 50 55 60
 Ala Val Thr Arg Lys Gly Ala Gln Pro Ser Val Pro Trp Arg Lys Glu

65 70 75 80
Ile Asp Glu Phe Leu Ser Gln Gln Gly
 85 90

[illegible]

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<400> 7114
Ser Met Ser Thr Asp Asn Lys Gln Ser Leu Pro Ala Val Thr Leu Ala
1          5          10          15
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Ala Ile Gly Val Val Tyr Gly Asp Ile Gly Thr Ser Pro Leu Tyr Thr
 20 25 30
 Leu Arg Glu Cys Leu Ser Gly Gln Phe Gly Phe Gly Val Glu Arg Asp
 35 40 45
 Ala Val Phe Gly Phe Leu Ser Leu Ile Phe Trp Leu Leu Ile Leu Val
 50 55 60
 Val Ser Leu Lys Tyr Leu Ser Phe Val Met Arg Ala Asp Asn Ala Gly
 65 70 75 80
 Glu Gly Gly Ile Leu Thr Leu Met Ser Leu Ala Gly Arg Asn Thr Ser
 85 90 95
 Ala Arg Met Thr Ser Val Leu Val Ile Gly Leu Ile Gly Gly Ser
 100 105 110
 Phe Phe Tyr Gly Glu Val Val Ile Thr Pro Ala Ile Ser Val Met Ser
 115 120 125
 Ala Ile Lys Gly Leu Glu Ile Val Ala Pro Gln Leu Asp Thr Trp Val
 130 135 140
 Val Pro Leu Ala Ile Ile Val Leu Thr Leu Leu Phe Ala Ile Gln Lys
 145 150 155 160
 His Gly Thr Gly Leu Val Gly Lys Leu Phe Ala Pro Ile Met Leu Ala
 165 170 175
 Trp Phe Leu Ile Leu Ala Ala Leu Gly Leu Arg Ser Ile Ile Ala Asn
 180 185 190
 Pro Asp Val Leu His Ala Leu Asn Pro Leu Trp Ala Val His Phe Phe
 195 200 205
 Leu Lys Tyr Lys Val Val Ser Phe Val Ala Leu Gly Ala Val Val Leu
 210 215 220
 Ser Ile Thr Gly Val Glu Ala Leu Tyr Ala Asp Met Gly His Phe Gly
 225 230 235 240
 Lys Leu Pro Ile Arg Val Ala Trp Phe Ser Val Val Leu Pro Ser Leu
 245 250 255
 Val Leu Asn Tyr Phe Gly Gln Gly Ala Leu Leu Leu Ala His Pro Glu
 260 265 270
 Ala Ile Lys Asn Pro Phe Phe Leu Leu Ala Pro Asp Trp Ala Leu Val
 275 280 285
 Pro Met Leu Ile Leu Ala Thr Leu Ala Thr Val Ile Ala Ser Gln Ala
 290 295 300
 Val Ile Ser Gly Val Phe Ser Leu Thr Arg Gln Ala Val Arg Leu Gly
 305 310 315 320
 Tyr Leu Ser Pro Met Arg Ile Ile His Thr Ser Glu Met Glu Ser Gly
 325 330 335
 Gln Ile Tyr Ile Pro Phe Val Asn Trp Leu Leu Tyr Phe Ala Val Val
 340 345 350
 Ile Val Ile Val Ser Phe Glu His Ser Ser Asn Leu Ala Ala Tyr
 355 360 365
 Gly Ile Ala Val Thr Gly Thr Met Val Leu Thr Ser Ile Leu Ser Thr
 370 375 380
 Thr Val Ala Tyr Arg Asn Trp His Trp Asn Lys Phe Leu Val Gly Leu
 385 390 395 400
 Ile Leu Val Gly Phe Leu Cys Ile Asp Val Pro Leu Phe Ser Ala Asn
 405 410 415
 Leu Asp Lys Ile Val Ser Gly Trp Leu Pro Leu Thr Leu Gly Leu
 420 425 430
 Val Met Phe Ile Val Met Thr Thr Trp Lys Ser Glu Arg Phe Arg Leu
 435 440 445
 Leu Arg Arg Met His Glu His Gly Asn Ser Leu Glu Ala Met Ile Ala
 450 455 460
 Ser Leu Glu Lys Ser Pro Pro Val Arg Val Pro Gly Thr Ala Val Tyr
 465 470 475 480
 Met Ser Arg Ala Leu Asn Val Ile Pro Phe Ala Leu Met His Asn Leu
 485 490 495
 Lys His Asn Lys Val Leu His Glu Arg Val Ile Leu Leu Thr Leu Arg

		500						505				510			
Thr	Glu	Asp	Ala	Pro	Tyr	Val	His	Asn	Val	Arg	Arg	Gln	Ile	Glu	
		515					520				525				
Gln	Leu	Ser	Pro	Thr	Phe	Trp	Arg	Val	Val	Ala	Ser	Tyr	Gly	Trp	Arg
		530				535					540				
Glu	Thr	Pro	Asn	Val	Glu	Glu	Val	Phe	His	Arg	Cys	Gly	Leu	Glu	Gly
		545			550				555					560	
Leu	Ser	Cys	Arg	Met	Met	Glu	Thr	Ser	Phe	Phe	Met	Ser	His	Glu	Ser
				565					570					575	
Leu	Ile	Ile	Gly	Lys	Arg	Pro	Trp	Tyr	Leu	Arg	Leu	Arg	Gly	Lys	Leu
			580					585					590		
Tyr	Leu	Ile	Leu	Gln	Arg	Asn	Ala	Leu	Arg	Ala	Pro	Asp	Gln	Phe	Glu
		595					600					605			
Ile	Pro	Pro	Asn	Arg	Val	Ile	Glu	Leu	Gly	Thr	Gln	Val	Glu	Ile	
		610				615						620			

<210> 7115

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 7115

Ile	Arg	Ser	Lys	Lys	Met	Thr	Thr	Gln	Ala	Val	Ser	Gly	Arg	Arg	Tyr
1			5					10					15		
Phe	Thr	Lys	Ala	Trp	Leu	Met	Glu	Gln	Lys	Ser	Leu	Ile	Ala	Leu	Leu
			20					25				30			
Val	Leu	Ile	Ala	Ile	Val	Ser	Tyr	Met	Ser	Pro	Asn	Phe	Phe	Thr	Val
		35					40					45			
Asn	Asn	Leu	Phe	Asn	Ile	Leu	Gln	Gln	Thr	Ser	Val	Asn	Ala	Ile	Met
		50			55					60					
Ala	Val	Gly	Met	Thr	Leu	Val	Ile	Leu	Thr	Ser	Gly	Ile	Asp	Leu	Ser
		65			70					75				80	
Val	Gly	Ser	Leu	Leu	Ala	Leu	Thr	Gly	Ala	Ile	Ala	Ala	Ser	Ile	Val
			85					90						95	
Gly	Ile	Glu	Val	Asn	Ala	Leu	Val	Ala	Val	Ala	Ala	Ala	Leu	Ala	Ala
		100					105						110		
Gly	Ala	Ala	Ile	Gly	Ala	Val	Thr	Gly	Val	Ile	Val	Ala	Lys	Gly	Arg
		115				120						125			
Val	Gln	Ala	Phe	Ile	Ala	Thr	Leu	Val	Met	Met	Leu	Leu	Leu	Arg	Gly
		130				135					140				
Val	Thr	Met	Val	Tyr	Thr	Asn	Gly	Ser	Pro	Ile	Asn	Thr	Gly	Phe	Thr
		145			150					155				160	
Asp	Asn	Ala	Asp	Leu	Phe	Gly	Trp	Phe	Gly	Ile	Gly	Arg	Pro	Leu	Gly
			165						170					175	
Val	Pro	Thr	Pro	Val	Trp	Ile	Met	Ala	Ile	Val	Phe	Leu	Ala	Ala	Trp
		180					185					190			
Tyr	Met	Leu	His	Thr	Arg	Leu	Gly	Arg	Tyr	Ile	Tyr	Ala	Leu	Gly	
		195				200					205				
Gly	Asn	Glu	Ala	Ala	Thr	Arg	Leu	Ser	Gly	Ile	Ser	Val	Asn	Lys	Val
		210				215					220				
Lys	Ile	Ile	Val	Tyr	Ser	Leu	Cys	Gly	Leu	Leu	Ala	Ser	Leu	Ala	Gly
		225			230					235				240	
Ile	Ile	Glu	Val	Ala	Arg	Leu	Ser	Ser	Ala	Gln	Pro	Thr	Ala	Gly	Thr
			245						250					255	
Gly	Tyr	Glu	Leu	Asp	Ala	Ile	Ala	Ala	Val	Val	Leu	Gly	Gly	Thr	Ser
			260				265						270		
Pro	Cys	Gly	Arg												
			275												

<210> 7116

<211> 332

<212> PRT

<213> *Enterobacter cloacae*

<400> 7116

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Ile Met Lys Thr Ala Tyr Ile Ala Lys Gln Arg Gln Ile Ser Phe Val
1      5      10      15
Lys Ser His Phe Ser Arg Gln Leu Glu Gln Lys Leu Gly Leu Ile Glu
      20      25      30
Val Gln Ala Pro Ile Leu Ser Arg Val Gly Asp Gly Thr Gln Asp Asn
      35      40      45
Leu Ser Gly Cys Glu Lys Ala Val Gln Val Lys Val Lys Thr Leu Pro
      50      55      60
Asp Ala Gln Phe Glu Val Val His Ser Leu Ala Lys Trp Lys Arg Gln
      65      70      75      80
Thr Leu Gly Gln His Asp Phe Ser Ala Gly Glu Gly Leu Tyr Thr His
      85      90      95
Met Lys Ala Leu Arg Pro Asp Glu Asp Arg Leu Ser Pro Ile His Ser
      100      105      110
Val Tyr Val Asp Gln Trp Asp Trp Glu Arg Val Met Gly Asp Gly Glu
      115      120      125
Arg His Val Gly Thr Leu Lys Ser Thr Val Glu Ala Ile Tyr Ala Gly
      130      135      140
Ile Lys Ala Thr Glu Ala Ala Val Ser Lys Glu Phe Gly Leu Ala Pro
      145      150      155      160
Phe Leu Pro Glu Thr Ile His Phe Val His Ser Gln Glu Leu Leu Ser
      165      170      175
Arg Phe Pro Asp Leu Asp Ala Lys Gly Arg Glu Arg Ala Ile Ala Lys
      180      185      190
Glu Leu Gly Ala Val Phe Leu Ile Gly Ile Gly Gly Lys Leu Ser Asp
      195      200      205
Gly Lys Arg His Asp Val Arg Ala Pro Asp Tyr Asp Asp Trp Ser Thr
      210      215      220
Val Gly Glu Ser Glu Tyr Ala Gly Leu Asn Gly Asp Ile Leu Val Trp
      225      230      235      240
Asn Pro Val Leu Glu Asp Ala Phe Glu Leu Ser Ser Met Gly Ile Arg
      245      250      255
Val Asp Ala Glu Ala Leu Lys Arg Gln Leu Ala Val Thr Gly Asp Glu
      260      265      270
Asp Arg Leu Gln Leu Glu Trp His Gln Ala Leu Leu Arg Gly Glu Met
      275      280      285
Pro Gln Thr Ile Gly Gly Gly Ile Gly Gln Ser Arg Leu Thr Met Leu
      290      295      300
Leu Leu Gln Leu Ser His Ile Gly Gln Val Gln Cys Gly Val Trp Pro
      305      310      315      320
Gln Gln Val Arg Glu Ser Val Gly Ser Leu Leu
      325      330

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<210> 7117

<211> 150

<212> PRT

<213> *Enterobacter cloacae*

<400> 7117

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Arg Asn Val Ser Leu Val Glu Gln Lys Met Lys Lys Gly Thr Val Leu
1      5      10      15
Asn Ser Glu Ile Ser Ser Val Ile Ser Arg Leu Gly His Thr Asp Thr
      20      25      30
Leu Val Val Cys Asp Ala Gly Leu Pro Val Pro Arg Ser Thr Thr Arg
      35      40      45
Ile Asp Met Ala Leu Thr Gln Gly Val Pro Ser Phe Met Gln Val Leu
      50      55      60

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Glu Val Val Thr Ala Glu Met Gln Val Glu Ala Ala Ile Leu Ala Ala
 65 70 75 80
 Glu Ile Lys Gln His Asn Pro Gln Leu His Glu Thr Leu Leu Ser His
 85 90 95
 Ile Glu Gln Leu Gln Gln His Gln Gly Asn Thr Ile Glu Ile Arg Tyr
 100 105 110
 Thr Thr His Glu Gln Cys Lys Gln His Thr Ala His Ser His Ala Val
 115 120 125
 Ile Arg Ser Gly Gly Met Phe Pro Pro Tyr Ala Asn Ile Ile Leu Cys
 130 135 140
 Ala Gly Val Thr Phe
 145 150

<210> 7118

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 7118

Pro Trp Cys Thr Pro Thr Ala Ala Arg Leu Ile Pro Ala Leu Pro Ile
 1 5 10 15
 Thr Pro Ile Cys Leu Ala Gly Ser Val Ser Val Ala Arg Trp Val Ser
 20 25 30
 Arg Pro Arg Ser Gly Ser Trp Leu Ser Phe Ser Trp Arg Arg Gly Thr
 35 40 45
 Cys Cys Thr Ile Pro Val Trp Val Val Ile Ser Met Arg Trp Ala Val
 50 55 60
 Thr Lys Arg Gln Arg Ala Cys Pro Val Ser Ala Leu Ile Lys Ser Lys
 65 70 75 80
 Leu Ser Phe Thr Pro Cys Ala Ala Cys Trp Arg Leu Trp Arg Ala Ser
 85 90 95
 Ser Lys Trp Arg Ala Ser Leu Pro His Ser Gln Arg Arg Val Arg Ala
 100 105 110
 Met Ser Trp Met Pro Ser Arg Gln Trp Phe Trp Ala Val Arg Val Leu
 115 120 125
 Ala Gly Gly Lys Gly Arg Ile Val Gly Thr Leu Ile Gly Ala Leu Ile
 130 135 140
 Leu Gly Phe Leu Asn Asn Gly Leu Asn Leu Leu Gly Val Ser Ser Tyr
 145 150 155 160
 Tyr Gln Met Ile Val Lys Ala Val Val Ile Leu Leu Ala Val Leu Val
 165 170 175
 Asp Asn Lys Lys Gln
 180

<210> 7119

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 7119

Leu Thr Thr Leu Gln Asp Ile Leu Asp Met Asn Met Lys Lys Leu Ala
 1 5 10 15
 Thr Leu Val Ser Ala Val Ala Leu Ser Ala Thr Val Ser Ala Asn Ala
 20 25 30
 Met Ala Lys Asp Thr Ile Ala Leu Val Val Ser Thr Leu Asn Asn Pro
 35 40 45
 Phe Phe Val Ser Leu Lys Asp Gly Ala Gln Lys Glu Ala Asp Lys Leu
 50 55 60
 Gly Tyr Asn Leu Val Val Leu Asp Ser Gln Asn Asn Pro Ala Lys Glu
 65 70 75 80
 Leu Ala Asn Val Gln Asp Leu Thr Val Arg Gly Thr Lys Ile Leu Leu

85 90 95
 Ile Asn Pro Thr Asp Ser Asp Ala Val Gly Asn Ala Val Lys Met Ala
 100 105 110
 Asn Gln Ala Lys Ile Pro Val Ile Thr Leu Asp Arg Gln Ala Thr Lys
 115 120 125
 Gly Asp Val Val Ser His Ile Ala Ser Asp Asn Val Leu Gly Gly Lys
 130 135 140
 Ile Ala Gly Asp Tyr Ile Ala Lys Lys Ala Gly Glu Gly Ala Lys Val
 145 150 155 160
 Ile Glu Leu Gln Gly Ile Ala Gly Thr Ser Ala Ala Arg Glu Arg Gly
 165 170 175
 Glu Gly Phe Gln Gln Ala Val Ala Ala His Lys Phe Asn Val Leu Ala
 180 185 190
 Ser Gln Pro Ala Asp Phe Asp Arg Thr Lys Gly Leu Asn Val Met Gln
 195 200 205
 Asn Leu Leu Thr Ala His Pro Asp Val Gln Ala Val Phe Ala Gln Asn
 210 215 220
 Asp Glu Met Ala Leu Gly Ala Leu Arg Ala Leu Gln Thr Ala Gly Lys
 225 230 235 240
 Ser Asp Val Met Val Val Gly Phe Asp Gly Thr Pro Asp Gly Glu Lys
 245 250 255
 Ala Val Asn Asp Gly Lys Leu Ala Ala Thr Ile Ala Gln Leu Pro Glu
 260 265 270
 Gln Ile Gly Ala Thr Gly Val Gln Thr Ala Asp Lys Val Leu Lys Gly
 275 280 285
 Glu Lys Val Gln Ala Lys Tyr Pro Val Asp Leu Lys Leu Val Ile Lys
 290 295 300
 Gln
 305

<210> 7120

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 7120

Gly Thr Pro Asn Lys Arg Lys Val Trp His Thr Pro Pro Gly Asn Thr
 1 5 10 15
 Gly Gly Ala Leu Arg Trp Thr Pro Gln Tyr Met Lys Thr Ala Gly Asn
 20 25 30
 Leu Val Val Leu Gly Ser Ile Asn Ala Asp His Ile Leu Asn Leu Glu
 35 40 45
 Thr Phe Pro Thr Pro Gly Glu Thr Val Thr Gly Asn Gln Tyr Gln Val
 50 55 60
 Ala Phe Gly Gly Lys Gly Ala Asn Gln Ala Val Ala Ala Gly Arg Ser
 65 70 75 80
 Gly Ala Asn Ile Ala Phe Ile Ala Cys Thr Gly Asp Asp Asp Thr Gly
 85 90 95
 Glu Arg Val Arg Lys Gln Leu Ala Ser Asp Asn Ile Asp Ile Ala Pro
 100 105 110
 Val Ser Val Val Ala Gly Glu Ser Thr Gly Val Ala Leu Ile Phe Val
 115 120 125
 Asn Ala Glu Gly Glu Asn Val Ile Gly Ile His Ala Gly Ala Asn Ala
 130 135 140
 Ala Leu Thr Thr Glu Arg Val Glu Ala Gln Arg Gly Ile Ile Ala Gly
 145 150 155 160
 Ala Glu Ala Leu Leu Met Gln Leu Glu Ser Pro Val Glu Ser Val Leu
 165 170 175
 Ala Ala Ala Lys Ile Ala His Glu Asn His Thr Ser Val Val Leu Asn
 180 185 190
 Pro Ala Pro Ala Arg Val Leu Ser Asp Glu Leu Leu Ala Leu Val Asp

195 200 205
 Ile Ile Thr Pro Asn Glu Thr Glu Ala Glu Lys Leu Thr Gly Ile Arg
 210 215 220
 Val Glu Asn Asp Asp Ala Ala Arg Ala Ala Leu Ala Leu His Asp
 225 230 235 240
 Lys Gly Ile Gly Thr Val Ile Ile Thr Leu Gly Ser Arg Gly Val Trp
 245 250 255
 Ala Ser Val Asn Gly Glu Gly Arg Arg Val Pro Gly Phe Lys Val Lys
 260 265 270
 Ala Ile Asp Thr Ile Ala Ala Gly Arg His Leu Gln Arg Cys Ala Gly
 275 280 285
 Asn Gly Ala Ala Gly Arg Lys Ser Asn Gly
 290 295

<210> 7121

<211> 147

<212> PRT

<213> *Enterobacter cloacae*

<400> 7121

Lys Leu Thr Trp Trp Arg Thr Glu Asp Asn Phe Asn Gln Val Val Asp
 1 5 10 15
 His Phe Leu Val Met Arg Ser Ser Leu Glu Pro Gln Ala Cys Leu Leu
 20 25 30
 Ala Ala Thr Leu Gly Thr Ala Glu Gln Lys Ala Gln Leu Asn Thr Leu
 35 40 45
 Met Glu Glu Met Val Asp Leu Lys Lys His Phe Asn Arg Glu Arg Trp
 50 55 60
 Ile Ala Val Asp Met Ala Trp His Glu His Ile Tyr Asn Met Ser Gly
 65 70 75 80
 Asn Pro Phe Leu Thr Ser Phe Ala Ser Leu Phe His Ser Val Tyr His
 85 90 95
 Thr Tyr Phe Thr Ser Ile Thr Gln Asp Glu Val Val Lys Leu Asn Leu
 100 105 110
 His Gln Ala Ile Val Asp Ala Ile Gln Glu Ser Asp Gly Gln Arg Ala
 115 120 125
 Leu Ser Ala Cys Gln Ala Leu Leu Ala Ala Pro Thr His Gln Gln Val
 130 135 140
 Asn Lys
 145

<210> 7122

<211> 488

<212> PRT

<213> *Enterobacter cloacae*

<400> 7122

Thr Gly Ala Ser Met Leu Thr Leu Asp Thr Leu Asn Val Met Leu Ala
 1 5 10 15
 Val Ser Glu Glu Gly Leu Ile Glu Glu Val Val Ile Thr Leu Leu Ala
 20 25 30
 Ser Pro Gln Leu Ala Ala Phe Phe Glu Lys Phe Pro Lys Leu Arg Lys
 35 40 45
 Ala Met Thr Asp Asp Leu Pro Arg Trp Arg Asp Asn Leu Arg Gln Arg
 50 55 60
 Phe Lys Glu Thr Glu Val Pro Pro Glu Leu Thr Glu Glu Val Ala Gly
 65 70 75 80
 Tyr Gln Gln Cys Gln Arg Leu Ser Thr Pro Gln Phe Ile Ala Gln Leu
 85 90 95
 Gln Gln Thr Leu Thr Leu Leu Asp Asn Val His Ser Pro Phe Ala Ser
 100 105 110

Gln Ala Arg Ala Leu Val Thr Asp Asn Pro Ser Phe Thr Pro Ala Leu
 115 120 125
 His Thr Leu Phe Leu Gln Arg Trp Arg Leu Ser Leu Val Val Gln Ala
 130 135 140
 Thr Ala Leu Asn Gln Gln Leu Leu Asp Glu Glu Arg Glu Gln Leu Leu
 145 150 155 160
 Ser Glu Val Gln Glu Arg Met Thr Leu Ser Gly Gln Leu Glu Gln Val
 165 170 175
 Leu Val Glu Asn Glu Asn Ala Ala Gly Arg Leu Trp Asp Met Ser Ala
 180 185 190
 Gly Gln Leu Lys Arg Gly Asp Tyr Gln Leu Ile Val Lys Tyr Gly Asp
 195 200 205
 Phe Leu Ala Gln Gln Pro Glu Leu Met Lys Leu Ala Glu Gln Leu Gly
 210 215 220
 Arg Ser Arg Glu Ala Arg Ser Val Pro Lys Lys Asp Ala Pro Met Glu
 225 230 235 240
 Thr Phe Arg Thr Leu Val Arg Lys Pro Ser Thr Val Pro Glu Gln Val
 245 250 255
 Asp Gly Leu Gln Gln Ser Asp Asp Ile Leu Arg Leu Leu Pro Thr Glu
 260 265 270
 Leu Ser Thr Leu Gly Met Thr Glu Leu Glu Tyr Glu Phe Tyr Arg Arg
 275 280 285
 Leu Val Glu Lys Gln Leu Ile Thr Tyr Arg Leu His Gly Glu Ala Trp
 290 295 300
 Arg Glu Lys Ile Ser Gln Arg Pro Val Val His Gln Asp Phe Asp Glu
 305 310 315 320
 Gln Pro Arg Gly Pro Phe Ile Val Cys Val Asp Thr Ser Gly Ser Met
 325 330 335
 Gly Gly Phe Asn Glu Gln Cys Ala Lys Ala Phe Cys Leu Ala Leu Met
 340 345 350
 Arg Val Ala Leu Ala Asp Arg Arg Cys Tyr Ile Met Leu Phe Ser
 355 360 365
 Ser Glu Val Val Gly Tyr Glu Leu Thr Ser Pro Gln Gly Leu Glu Gln
 370 375 380
 Ala Ile Arg Phe Leu Ser Gln Arg Phe Arg Gly Gly Thr Asp Leu Ala
 385 390 395 400
 Ser Cys Phe Arg Ser Ile Ile Glu Arg Met Gln Gly Gly Asp Trp Tyr
 405 410 415
 Asp Ala Asp Ala Val Val Ile Ser Asp Phe Ile Ala Gln Arg Leu Pro
 420 425 430
 Asp Glu Val Val Asn Lys Val Lys Glu Met Gln Arg Val His Gln His
 435 440 445
 Arg Phe His Ala Val Ala Met Ser Ala His Gly Lys Pro Gly Ile Met
 450 455 460
 Arg Ile Phe Asp His Ile Trp Arg Phe Asp Thr Gly Leu Arg Ser Arg
 465 470 475 480
 Leu Leu Arg Arg Trp Arg Arg
 485

<210> 7123

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 7123

Met Thr Glu Lys Lys Ala Arg Ser Met Ala Gly Leu Pro Trp Ile Ala
 1 5 10 15
 Ala Met Ala Phe Phe Met Gln Ala Leu Asp Ala Thr Ile Leu Asn Thr
 20 25 30
 Ala Leu Pro Ala Ile Ala Gln Ser Leu Asn Arg Ser Pro Leu Ala Met
 35 40 45

Gln Ser Ala Ile Ile Ser Tyr Thr Leu Thr Val Ala Met Leu Ile Pro
 50 55 60
 Val Ser Gly Trp Leu Ala Asp Arg Phe Gly Thr Arg Lys Val Phe Met
 65 70 75 80
 Leu Ala Val Thr Leu Phe Thr Leu Gly Ser Leu Ala Cys Ala Leu Ser
 85 90 95
 Thr Ser Leu Thr Glu Leu Val Ile Phe Arg Val Leu Gln Gly Ile Gly
 100 105 110
 Gly Ala Met Met Met Pro Val Ala Arg Leu Ala Leu Arg Ala Tyr
 115 120 125
 Pro Arg Ser Glu Leu Leu Pro Val Leu Asn Phe Val Thr Met Pro Gly
 130 135 140
 Leu Val Gly Pro Ile Leu Gly Pro Val Leu Gly Gly Val Leu Val Thr
 145 150 155 160
 Trp Ala Ser Trp His Trp Ile Phe Leu Ile Asn Ile Pro Ile Gly Val
 165 170 175
 Ala Gly Leu Ile Tyr Ala Arg Lys Tyr Met Pro Asn Phe Thr Thr Pro
 180 185 190
 Arg Arg Ser Phe Asp Met Gly Gly Phe Phe Leu Phe Gly Leu Ser Leu
 195 200 205
 Val Leu Phe Ser Ser Gly Met Glu Leu Phe Gly Glu Lys Ile Val Ser
 210 215 220
 Thr Trp Leu Ala Leu Ala Val Ile Leu Ser Gly Ile Leu Leu Phe Leu
 225 230 235 240
 Leu Tyr Ile Arg His Ala Arg Arg His Pro Thr Pro Leu Ile Ser Leu
 245 250 255
 Ser Leu Phe Asn Thr Arg Thr Phe Ser Val Gly Ile Ala Gly Asn Ile
 260 265 270
 Ala Ser Arg Leu Gly Thr Gly Cys Val Pro Phe Leu Met Pro Leu Met
 275 280 285
 Leu Gln Val Gly Phe Gly Tyr Pro Ala Leu Ile Ala Gly Cys Met Met
 290 295 300
 Ala Pro Thr Ala Met Gly Ser Ile Leu Ala Lys Ser Thr Val Thr Gln
 305 310 315 320
 Val Leu Arg Trp Phe Gly Tyr Arg Lys Thr Leu Val Gly Val Thr Ile
 325 330 335
 Phe Ile Gly Leu Met Ile Ala Gln Phe Ser Leu Gln Ser Ala Ala Leu
 340 345 350
 Pro Ile Trp Met Leu Ile Leu Pro Leu Phe Val Leu Gly Met Ala Met
 355 360 365
 Ser Thr Gln Phe Thr Ser Met Asn Thr Ile Thr Leu Ala Asp Leu Thr
 370 375 380
 Asp Glu Asn Ala Ser Ser Gly Asn Ser Val Leu Ala Val Thr Gln Gln
 385 390 395 400
 Leu Ser Ile Ser Leu Gly Val Ala Val Ser Ala Ala Val Leu Arg Phe
 405 410 415
 Tyr Glu Gly Phe Asp Gly Thr Asn Thr Val Glu Gln Phe His Tyr Thr
 420 425 430
 Phe Ile Thr Met Gly Ala Leu Thr Val Val Ser Ala Val Val Phe Met
 435 440 445
 Leu Leu Lys Pro Lys Asp Gly Arg Asn Leu Ile Lys Glu Arg His Lys
 450 455 460
 Glu Lys Ala Lys Pro Asn Arg Val Pro Ser Glu Gln Glu
 465 470 475

<210> 7124

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 7124

Arg Arg Thr Ser Ala Tyr Tyr Gln Ala Arg Pro Lys Arg Leu Tyr Ser
 1 5 10 15
 Leu Gln Leu Ala Ala Thr Thr Ala Lys Gly Cys Lys Thr Ile Met Ala
 20 25 30
 His Ser His Leu Leu Ala Glu Arg Ile Ser Arg Leu Ser Ser Ala Leu
 35 40 45
 Glu Lys Gly Leu Tyr Glu Arg Ser His Ala Ile Arg Leu Cys Leu Leu
 50 55 60
 Ala Ala Leu Ser Gly Glu Ser Val Phe Leu Leu Gly Pro Pro Gly Ile
 65 70 75 80
 Ala Lys Ser Leu Ile Ala Arg Arg Leu Lys Phe Ala Phe Gln Asn Ala
 85 90 95
 Arg Ala Phe Glu Tyr Leu Met Thr Arg Phe Ser Thr Pro Glu Glu Val
 100 105 110
 Phe Gly Pro Leu Ser Ile Gln Ala Leu Lys Asp Glu Gly Arg Tyr Glu
 115 120 125
 Arg Leu Thr Ala Gly Tyr Leu Pro Glu Ala Glu Ile Val Phe Leu Asp
 130 135 140
 Glu Ile Trp Lys Ala Gly Pro Ala Ile Leu Asn Thr Leu Leu Thr Ala
 145 150 155 160
 Ile Asn Glu Arg Arg Phe Arg Asn Gly Ala Ser Glu Glu Lys Ile Pro
 165 170 175
 Met Arg Leu Leu Val Ala Ala Ser Asn Glu Leu Pro Glu Ala Asp Ser
 180 185 190
 Ser Leu Glu Ala Leu Tyr Asp Arg Met Leu Ile Arg Leu Trp Leu Asp
 195 200 205
 Lys Val Gln Asp Lys Ser Asn Phe Arg Ser Met Leu Val Ser Gln Gln
 210 215 220
 Asp Glu Asn Glu Asn Pro Val Ala Ala Ser Leu Gln Val Thr Asp Glu
 225 230 235 240
 Glu Tyr His Gln Trp Gln Glu Glu Ile Gly Lys Ile Lys Leu Pro Asp
 245 250 255
 Pro Val Phe Glu Leu Ile Phe Met Leu Arg Gln Gln Leu Asp Leu Leu
 260 265 270
 Pro Ser Ala Pro Tyr Val Ser Asp Arg Arg Trp Lys Lys Ala Ile Arg
 275 280 285
 Leu Leu Gln Ala Ser Ala Leu Phe Ser Gly Arg Asp Ala Val Ala Pro
 290 295 300
 Ile Asp Leu Ile Leu Leu Lys Asp Cys Leu Trp His Asp Ala Glu Gly
 305 310 315 320
 Met Asn Leu Met Gln Gln Gln Leu Asp Val Leu Met Thr Gly His Ala
 325 330 335
 Trp Gly Gln Gln Ser Met Leu Asn Gln Leu Gly Ala Ile Ala Gln Arg
 340 345 350
 Arg Leu Gln Leu Gln Gln Gln Gln Ser Asp Lys Thr Ala Leu Lys Val
 355 360 365
 Asn Arg Leu Gly Gly Met Phe Ala Arg Lys Pro His Tyr Glu Leu Pro
 370 375 380
 Ala Gly Leu Thr Asp Ala Ser Leu Thr Leu Leu Gln Gln Pro Leu
 385 390 395 400
 Lys Leu His Asp Met Gln Val Val His Val Thr Ile Glu Arg Val Ala
 405 410 415
 Leu Val Gln Trp Leu Asp Lys Gly Gly Glu Ile Arg Gly Lys Leu Asn
 420 425 430
 Gly Ile Gly Phe Ala Gln Pro Leu Ser Met Glu Val Asp Ser Ser Gln
 435 440 445
 His Leu Val Ile Arg Asp Val Ser Leu Gln Gly Ser Arg Leu Ala Leu
 450 455 460
 Pro Gly Thr Ala Ser Asp Thr Val Pro Glu Glu Ile Lys Gln Gln Leu
 465 470 475 480
 Asp Ala Leu Asp Asn Glu Trp His Gln Gln His Thr Arg Phe Ser Glu

			485				490			495	
Gln	Gln	Lys	Cys	Leu	Phe	Ile	His	Ser	Asp	Trp	Leu
			500					505			510
Ala	Ser	Leu	Gln	Asp	Val	Ser	Ala	Gln	Ile	Lys	Gln
		515					520				525
											Arg
											Ile
											Glu
											Cys

<210> 7125

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 7125

Glu	Lys	Pro	Met	Glu	Asn	Tyr	Gln	Ile	Asp	Asn	Leu	Asp	Arg	Gly	Ile
1				5					10					15	
Leu	Glu	Ala	Leu	Met	Ala	Asn	Ala	Arg	Thr	Ala	Tyr	Ala	Glu	Leu	Asp
			20					25					30		
Lys	Gln	Phe	Gly	Val	Ser	Pro	Gly	Thr	Ile	His	Val	Arg	Val	Glu	Lys
		35					40					45			
Met	Lys	Gln	Ala	Gly	Ile	Ile	Thr	Gly	Ala	Arg	Ile	Asp	Val	Ser	Pro
	50				55						60				
Lys	Gln	Phe	Gly	Tyr	Asp	Val	Cys	Cys	Phe	Ile	Gly	Ile	Ile	Met	Lys
65				70					75					80	
Ser	Ala	Lys	Asp	Tyr	Pro	Ser	Ala	Leu	Glu	Lys	Leu	Asn	Ala	Leu	Asp
			85						90					95	
Glu	Val	Thr	Glu	Ala	Tyr	Tyr	Thr	Thr	Gly	His	Tyr	Ser	Ile	Phe	Ile
			100					105					110		
Lys	Val	Met	Cys	Arg	Ser	Ile	Asp	Ala	Leu	Gln	Gln	Val	Leu	Ile	Asn
		115					120						125		
Lys	Ile	Gln	Thr	Ile	Asp	Glu	Ile	Gln	Ser	Thr	Glu	Thr	Leu	Ile	Ser
	130				135						140				
Leu	Gln	Asn	Pro	Ile	Met	Arg	Thr	Ile	Arg	Pro					
145				150					155						

<210> 7126

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7126

Ser	Gly	Asn	Phe	Ile	Pro	Thr	Phe	Ser	Thr	Gly	Arg	Ser	Gln	Leu	Val
1			5						10					15	
His	Ser	Val	Gln	Trp	Pro	Pro	Leu	Tyr	Leu	Ser	Glu	Arg	Ser	Met	Ala
			20					25					30		
Asp	Ile	Thr	Leu	Ile	Ser	Gly	Ser	Thr	Leu	Gly	Gly	Ala	Glu	Tyr	Val
		35				40					45				
Ala	Glu	His	Leu	Ala	Glu	Lys	Leu	Glu	Asp	Ala	Gly	Phe	Ser	Thr	Gln
	50				55					60					
Thr	Leu	His	Gly	Pro	Leu	Leu	Glu	Asp	Leu	Pro	Thr	Asp	Gly	Val	Trp
65			70					75						80	
Leu	Leu	Ile	Thr	Ser	Thr	His	Gly	Ala	Gly	Asp	Leu	Pro	Asp	Asn	Leu
			85						90					95	
Gln	Pro	Leu	Tyr	Asp	Glu	Leu	Leu	Glu	Gln	Pro	Asp	Leu	Ser	Asn	
			100					105				110			
Val	Arg	Phe	Gly	Ala	Val	Gly	Ile	Gly	Ser	Arg	Glu	Tyr	Asp	Thr	Phe
		115				120					125				
Cys	Gly	Ala	Ile	Glu	Lys	Val	Glu	Ala	Ala	Val	Thr	Ala	Cys	Gly	Ala
	130				135					140					
Lys	Gln	Leu	Gly	Glu	Thr	Leu	Lys	Ile	Asn	Ile	Leu	Asp	His	Asp	Ile
145				150				155						160	

Pro Glu Asp Pro Ala Glu Ile Trp Leu Ala Glu Trp Lys Asn Leu Leu
 165 170 175
 Lys Asn Asp
 180

<210> 7127

<211> 326

<212> PRT

<213> *Enterobacter cloacae*

<400> 7127

Trp His Val Val Ser Arg Ser Leu Arg Tyr Leu His Arg Leu Tyr Ile
 1 5 10 15
 Gly Ser Thr Ile Leu Ser Gln Ser Lys Phe Gln Arg Ala Phe Leu His
 20 25 30
 Pro Arg Tyr Trp Phe Thr Trp Phe Gly Leu Gly Val Leu Trp Leu Leu
 35 40 45
 Val Gln Leu Pro Tyr Pro Val Ile Arg Phe Leu Gly Ser Lys Leu Gly
 50 55 60
 Ser Ala Ser Arg His Phe Leu Lys Arg Arg Glu Ser Ile Ala Arg Lys
 65 70 75 80
 Asn Leu Glu Leu Cys Phe Pro His Tyr Asn Ala Gln Gln Arg Glu Thr
 85 90 95
 Leu Ile Ala Glu Asn Phe Lys Ser Ile Gly Met Ala Leu Leu Glu Thr
 100 105 110
 Gly Met Ala Trp Phe Trp Pro Asp Glu Arg Val Arg Lys Trp Phe Asp
 115 120 125
 Val Glu Gly Leu Asp Asn Leu Lys Arg Ala Gln Met Gln Asn Arg Gly
 130 135 140
 Val Met Val Val Gly Leu His Phe Met Ser Leu Glu Leu Gly Gly Arg
 145 150 155 160
 Val Met Gly Leu Cys Gln Pro Met Met Ala Thr Tyr Arg Pro His Asn
 165 170 175
 Ser Ala Leu Met Glu Trp Val Gln Thr Arg Gly Arg Met Arg Ser Asn
 180 185 190
 Lys Ala Met Ile Ser Arg Asn Asn Leu Arg Gly Met Val Gly Ala Leu
 195 200 205
 Lys Lys Gly Glu Ala Val Trp Phe Ala Pro Asp Gln Asp Tyr Gly Pro
 210 215 220
 Lys Gly Ser Ser Phe Ala Pro Phe Phe Ala Val Lys Asp Val Ala Thr
 225 230 235 240
 Thr Asn Gly Thr Phe Val Ile Ser Arg Leu Ser Gly Ala Ala Met Leu
 245 250 255
 Thr Val Thr Met Val Arg Lys Ala Asp Lys Ser Gly Tyr Arg Leu His
 260 265 270
 Ile Ser Pro Glu Met Ala Asn Tyr Pro Glu Asp Glu Ser Glu Ala Ala
 275 280 285
 Thr Phe Ile Asn Lys Val Ile Glu Phe Glu Ile Met Arg Ala Pro Glu
 290 295 300
 Gln Tyr Leu Trp Met His Arg Arg Phe Lys Thr Arg Pro Leu Gly Glu
 305 310 315 320
 Ala Ser Leu Tyr Ile
 325

<210> 7128

<211> 245

<212> PRT

<213> *Enterobacter cloacae*

<400> 7128

Gln Met Lys Val Ile Ile Val Glu Asp Glu Phe Leu Ala Gln Gln Glu

```

1          5          10          15
Leu Ser Trp Leu Ile Lys Thr His Ser Gln Met Glu Ile Val Gly Cys
20          25          30
Phe Glu Asp Gly Leu Asp Val Leu Lys Phe Leu Gln His Asn Arg Val
35          40          45
Asp Ala Ile Phe Leu Asp Ile Asn Ile Pro Ser Leu Asp Gly Val Leu
50          55          60
Leu Ala Gln Asn Ile Asn Gln Phe Ala His Lys Pro Phe Ile Val Phe
65          70          75
Val Thr Ala Trp Lys Glu His Ala Val Glu Ala Phe Glu Leu Glu Ala
85          90          95
Phe Asp Tyr Ile Leu Lys Pro Tyr Gln Glu Ser Arg Ile Ile Ser Met
100          105          110
Leu His Lys Leu Glu Ala Ala Trp Gln Gln Gln Ser Leu Pro Ala Ser
115          120          125
Ala Ser Pro Val Ala Arg Glu Asn Asp Thr Ile Asn Leu Val Lys Asp
130          135          140
Glu Arg Ile Ile Val Thr Pro Val Asp Asp Ile Tyr Tyr Ala Glu Ala
145          150          155
His Glu Lys Met Thr Phe Val Tyr Thr Arg Arg Glu Ser Tyr Val Met
165          170          175
Ala Met Asn Ile Thr Glu Phe Cys Asn Lys Leu Pro Ala Ala His Phe
180          185          190
Phe Arg Cys His Arg Ser Phe Cys Val Asn Leu Asn Lys Ile Arg Glu
195          200          205
Ile Glu Pro Trp Phe Asn Asn Thr Tyr Ile Leu Arg Leu Lys Asp Leu
210          215          220
Asp Phe Gln Val Pro Val Ser Arg Ser Arg Val Lys Glu Phe Arg Gln
225          230          235          240
Leu Met His Leu
245

```

<210> 7129

<211> 420

<212> PRT

<213> *Enterobacter cloacae*

<400> 7129

```

Ala Val Leu Tyr Lys Glu Ile Ile Met Leu His Pro Arg Ala Arg Thr
1          5          10          15
Met Leu Leu Leu Ala Val Pro Ala Leu Ile Ile Gly Val Ala Ser Ser
20          25          30
Leu Val Leu Ile Val Val Met Lys Val Ala Ala Val Leu Gln Thr Ile
35          40          45
Leu Trp Thr Ala Leu Pro Val Lys Leu Gly Ile Ser Ile Asp Ser Pro
50          55          60
Gly Trp Ile Met Val Met Leu Thr Leu Thr Gly Ile Ala Val Gly Leu
65          70          75
Val Ile Arg Tyr Ser Pro Gly His Ala Gly Pro Asp Pro Ala Leu Glu
85          90          95
Pro Leu Ile Gly Ala Pro Val Ser Pro Ser Ala Leu Pro Gly Leu Ile
100          105          110
Ile Ala Leu Ile Ile Gly Leu Ala Gly Gly Val Ser Leu Gly Pro Glu
115          120          125
His Pro Ile Met Ala Val Asn Ile Ala Leu Ala Val Phe Leu Gly Ala
130          135          140
Arg Leu Phe Pro Arg Val Gly Ala Leu Asp Trp Thr Ile Leu Ala Ser
145          150          155
Ala Gly Thr Ile Gly Ala Leu Phe Gly Thr Pro Val Ala Ala Ala Leu
165          170          175
Ile Phe Ser Gln Thr Leu Ser Ser Asp His Glu Val Pro Leu Trp Asp

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180 185 190
 Lys Leu Phe Ala Pro Leu Met Ala Ala Ala Gly Ala Leu Thr Thr
 195 200 205
 Ser Leu Phe Phe His Pro His Phe Ser Leu Ser Ile Pro His Tyr Gly
 210 215 220
 Gln Met Gln Leu Thr Asp Ile Phe Ser Gly Ala Val Val Val Ala Ile
 225 230 235 240
 Ala Ile Ala Leu Gly Met Val Ala Val Trp Cys Leu Pro Arg Leu His
 245 250 255
 Arg Leu Met His Arg Leu Lys His Pro Val Leu Ile Leu Gly Met Gly
 260 265 270
 Gly Phe Ile Leu Gly Val Leu Gly Ala Ile Gly Gly Thr Val Thr Leu
 275 280 285
 Phe Lys Gly Leu Asp Glu Met Gln Gln Leu Ala Phe Ser Gln Val Phe
 290 295 300
 Ser Val Ser Asp Tyr Leu Leu Phe Ala Leu Val Lys Leu Ala Ala Leu
 305 310 315 320
 Val Val Ala Ala Ala Cys Gly Phe Arg Gly Gly Arg Ile Phe Pro Ala
 325 330 335
 Val Phe Val Gly Val Ala Leu Gly Leu Met Leu His Glu His Val Asp
 340 345 350
 Ala Val Pro Ala Ala Ile Thr Val Ser Cys Ser Ile Leu Gly Leu Val
 355 360 365
 Leu Val Val Thr Arg Asp Ala Trp Leu Ser Leu Phe Met Ala Ala Val
 370 375 380
 Val Val Pro Asp Thr Thr Leu Leu Pro Leu Leu Cys Ile Val Met Leu
 385 390 395 400
 Pro Ala Trp Leu Leu Leu Ala Gly Lys Pro Met Leu Met Ala Trp Arg
 405 410 415
 Asn Asp Arg 420

<210> 7130

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 7130

Met Ser Asn Tyr Pro Glu Gly Ala Val Met Lys Asp Ile Asn Glu Glu
 1 5 10 15
 Lys Ile Gly Glu Asn Asn Glu Glu Leu Glu Ile Glu Ser Glu Glu Lys
 20 25 30
 Asp Arg Gly Glu Glu Ile Glu Val Asp Glu Asp Arg Leu Pro Ser Arg
 35 40 45
 Ala Met Ala Ile His Glu His Ile Arg Gln Asp Gly Glu Lys Glu Met
 50 55 60
 Glu Arg Asp Ala Met Ala Leu Leu Trp Ser Ala Ile Ala Ala Gly Leu
 65 70 75 80
 Ser Met Gly Ala Ser Leu Leu Ala Lys Gly Ile Phe His Val Gln Leu
 85 90 95
 Glu Gly Val Pro Gly Gly Phe Leu Leu Glu Asn Leu Gly Tyr Thr Phe
 100 105 110
 Gly Phe Ile Val Ile Met Ala Arg Gln Gln Leu Phe Thr Glu Asn
 115 120 125
 Thr Val Thr Ala Val Leu Pro Val Met Gln Asn Pro Thr Leu Gly Asn
 130 135 140
 Phe Gly Leu Leu Met Arg Leu Trp Ser Val Val Leu Leu Gly Asn Leu
 145 150 155 160
 Ile Gly Thr Gly Ile Ala Ala Trp Ala Phe Glu Tyr Met Pro Ile Phe
 165 170 175
 Asp Glu Pro Thr Arg Asp Ala Phe Val Lys Ile Gly Met Asp Val Met

<210> 7131
<211> 127
<212> PRT
<213> Enterobacter cloacae

<400> 7131
His Asn Gln Lys Phe Ile Ala Ala Val Ala Lys Asn Val Ile Thr Gly
1 5 10 15
Ser His Val Val Val Glu Arg Ala Gly Asp Phe Ser Gln Asp Leu Val
20 25 30
Pro Gly Ile Val Pro Pro Gly Ile Val Asp Leu Phe Lys Phe Val Asp
35 40 45
Val Asn Gln Gln Arg Arg Glu Leu Cys Ser Arg Pro Gly Gly Val Gln
50 55 60
Asp Phe Ala Phe Glu Asp Gly Trp Gln Glu Thr Ala Ile Gln Gln Ala
65 70 75 80
Gly Gln Asp Ile Asn Pro His Leu Val Ser Arg His Phe Val Lys Gln
85 90 95
Phe Ala Gln Lys Arg Asp Asp Leu Arg Glu Arg Ile Thr His Ser Leu
100 105 110
Gln Glu Phe Ile Pro Leu Arg Phe Ile Thr Gln Thr Leu Pro
115 120 125

400> 7132																	
Ile	Phe	Pro	Val	Phe	Pro	Gly	Leu	Tnr	Val	His	Glu	Ile	Phe	Asn	Met		
1				5					10					15			
Leu	Leu	Aia	Val	Phe	Asp	Arg	Ala	Aia	Leu	Met	Leu	Ile	Cys	Leu	Phe		
			20					25					30				
Phe	Leu	Ile	Arg	Ile	Arg	Leu	Phe	Arg	Glu	Leu	Leu	His	Lys	Ser	Ala		
		35					40					45					
His	Ser	Pro	Lys	Glu	Leu	Leu	Ala	Val	Thr	Phe	Ile	Phe	Ser	Met	Phe		
	50					55					60						
Ala	Leu	Phe	Ser	Thr	Trp	Ser	Gly	Val	Pro	Val	Glu	Gly	Ser	Leu	Val		
65				70						75					80		
Asn	Val	Arg	Ile	Ile	Ala	Val	Met	Ser	Gly	Gly	Ile	Leu	Phe	Gly	Pro		
			85						90					95			
Trp	Val	Gly	Ile	Ile	Thr	Gly	Ile	Ile	Ala	Gly	Thr	His	Arg	Tyr	Leu		
			100					105						110			

Ile Asp Ile Gly Gly Val Thr Ala Val Pro Cys Phe Ile Thr Ser Ile
 115 120 125
 Ile Ala Gly Leu Leu Ser Gly Trp Ile Asn Arg Lys Ile Pro Lys Lys
 130 135 140
 Gln His Trp Arg Ala Gly Ile Ile Ala Gly Met Val Cys Glu Thr Leu
 145 150 155 160
 Thr Met Ile Leu Val Ile Val Trp Ala Pro Thr Val Ala Leu Gly Leu
 165 170 175
 Asp Ile Val Ser Lys Ile Gly Ile Pro Met Ile Leu Gly Ser Val Cys
 180 185 190
 Ile Gly Phe Ile Val Leu Leu Val Gln Ser Val Glu Gly Glu Lys Glu
 195 200 205
 Ala Ser Ala Ala Arg Gln Ala Lys Leu Ala Leu Asp Ile Ala Asn Lys
 210 215 220
 Thr Leu Pro Leu Phe Arg His Val Asn Ala Glu Ser Leu Arg Gln Val
 225 230 235 240
 Cys Asp Ile Ile Arg Arg Asp Ile His Ala Asp Ala Val Ala Ile Thr
 245 250 255
 Asn Ile Asp His Val Leu Ala Tyr Val Gly Val Gly Glu His Asn Tyr
 260 265 270
 Arg Asp Ser Asp Asp Thr Ile Ser Pro Thr Thr Arg Gln Ala Ile Asn
 275 280 285
 Tyr Gly Lys Ile Ile Ile Lys Asn Asn Asp Glu Ala His Arg Thr Pro
 290 295 300
 Glu Ile His Ser Met Leu Val Ile Pro Leu Trp Glu Lys Gly Val Val
 305 310 315 320
 Thr Gly Thr Leu Lys Ile Tyr Tyr Cys His Ala His Gln Ile Thr Ser
 325 330 335
 Ser Leu Gln Glu Met Ala Ile Gly Leu Ser Gln Ile Ile Ser Thr Gln
 340 345 350
 Leu Glu Val Ser Arg Ala Glu Gln Leu Arg Glu Met Ala Asn Lys Ala
 355 360 365
 Glu Leu Arg Ala Leu Gln Ser Lys Ile Asn Pro His Phe Leu Phe Asn
 370 375 380
 Ala Leu Asn Ala Ile Ser Ser Ser Ile Arg Leu Asn Pro Asp Thr Ala
 385 390 395 400
 Arg Gln Leu Ile Phe Asn Leu Ser Arg Tyr Leu Arg Tyr Asn Ile Glu
 405 410 415
 Leu Lys Asp Asp Glu Gln Ile Asp Ile Lys Lys Glu Leu Tyr Gln Ile
 420 425 430
 Lys Asp Tyr Ile Ala Ile Glu Gln Ala Arg Phe Gly Asp Lys Leu Thr
 435 440 445
 Val Ile Tyr Asp Ile Asp Glu Glu Val Asn Cys Val Ile Pro Ser Leu
 450 455 460
 Leu Ile Gln Pro Leu Val Glu Asn Ala Ile Val His Gly Ile Gln Pro
 465 470 475 480
 Cys Lys Gly Lys Gly Val Val Thr Ile Ser Val Thr Glu Ser Gly Asn
 485 490 495
 Arg Val Arg Ile Ala Val Arg Asp Thr Gly His Gly Ile Asp Pro Lys
 500 505 510
 Val Ile Glu Arg Val Lys Ser Asn Glu Met Pro Gly Asn Lys Ile Gly
 515 520 525
 Leu Leu Asn Val His His Arg Val Lys Leu Leu Tyr Gly Asp Gly Leu
 530 535 540
 His Ile His Arg Leu Glu Pro Gly Thr Glu Ile Ala Phe Tyr Val Pro
 545 550 555 560
 Asn Glu Arg Thr Pro Val Asn Ala Pro Ile Ser Leu Leu Pro
 565 570 575

<210> 7133

<211> 437

<212> PRT

<213> *Enterobacter cloacae*

<400> 7133

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Arg Trp Ala Asn Gly Glu Ser Gly His Phe Tyr His Met Ser Glu Pro
1      5      10      15
Ile Thr Val Ala Gln Ala Val Leu Thr Glu Gln Asn Ala Cys Tyr Glu
20      25      30
Ile Asp Arg Val Leu Thr Thr Met Leu Arg Glu Arg Arg Pro Gly Tyr
35      40      45
Leu Met Leu Pro Ala Asp Val Ala Lys Lys Ala Ala Thr Pro Pro Val
50      55      60
Ser Ala Leu Thr Val Asn Pro Ala Pro Ala Asp Ser Ala Cys Leu Gln
65      70      75      80
Ala Phe Arg Glu Ala Ala Glu Lys Arg Leu Ser Thr Ser Lys Arg Thr
85      90      95
Ala Leu Leu Ala Asp Phe Leu Val Leu Arg His Gly Leu Arg Ala Ala
100      105      110
Leu Gln Thr Trp Val Lys Glu Val Pro Met Ala His Ala Thr Met Leu
115      120      125
Met Gly Lys Gly Ile Phe Asp Glu Arg Gln Ser Gly Phe Tyr Gly Thr
130      135      140
Tyr Ser Gly Ser Ala Ser Ala Ala Pro Val Lys Glu Ala Ile Glu Gly
145      150      155      160
Ala Asp Thr Val Leu Cys Ile Gly Thr Arg Phe Thr Asp Thr Leu Thr
165      170      175
Ala Gly Phe Thr His Gln Leu Thr Pro Asp Gln Thr Ile Glu Val Gln
180      185      190
Pro His Ala Ser Arg Val Gly Asp Val Trp Phe Thr Gly Ile Pro Met
195      200      205
Arg Glu Ala Ile Glu Thr Leu Thr Ala Leu Cys Lys Thr Tyr Val Arg
210      215      220
Asp Thr Arg Ala Pro Ser Asp His Ser Gly Phe Ser Phe Pro Thr Ile
225      230      235      240
Glu Gly Ala Leu Thr Gln Glu Ser Phe Trp Arg Thr Leu Gln Thr Phe
245      250      255
Ile Arg Pro Gly Asp Ile Ile Leu Ala Asp Gln Gly Thr Ser Ala Phe
260      265      270
Gly Ala Ile Asp Leu Arg Leu Pro Ala Asp Val Asn Phe Ile Val Gln
275      280      285
Pro Leu Trp Gly Ser Ile Gly Tyr Thr Leu Ala Ala Ala Phe Gly Ala
290      295      300
Gln Thr Ala Cys Pro Asn Arg Arg Val Ile Val Leu Thr Gly Asp Gly
305      310      315      320
Ala Ala Gln Leu Thr Ile Gln Glu Leu Gly Ser Met Leu Arg Asp Lys
325      330      335
Gln Arg Pro Ile Ile Leu Val Leu Asn Asn Glu Gly Tyr Thr Val Glu
340      345      350
Arg Ala Ile His Gly Pro Glu Gln Arg Tyr Asn Asp Ile Ala Leu Trp
355      360      365
Asn Trp Thr Gln Ile Pro Gln Ala Leu Ser Leu Ala Pro Gln Ala Glu
370      375      380
Cys Trp Arg Val Ser Glu Ala Glu Ala Leu Ala Glu Val Leu Asp Lys
385      390      395      400
Val Ala His His Glu Arg Leu Ser Leu Ile Glu Val Met Leu Pro Lys
405      410      415
Ala Asp Ile Pro Pro Leu Leu Ser Ala Leu Thr Lys Ala Leu Glu Ala
420      425      430
Arg Asn Asn Ala
435

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<210> 7134
 <211> 418
 <212> PRT
 <213> Enterobacter cloacae

<400> 7134

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Arg Asp Ser Glu Glu Ser Met Ala Glu Phe Ser Pro Glu Arg Arg Phe
1      5      10      15
Thr Arg Ile Asp Arg Leu Pro Pro Tyr Val Phe Asn Ile Thr Ala Glu
20      25      30
Leu Lys Met Ala Ala Arg Arg Arg Gly Glu Asp Ile Ile Asp Phe Ser
35      40      45
Met Gly Asn Pro Asp Gly Pro Thr Pro Pro His Ile Val Glu Lys Leu
50      55      60
Cys Thr Val Ala Gln Arg Pro Asp Thr His Gly Tyr Ser Thr Ser Arg
65      70      75      80
Gly Ile Pro Arg Leu Arg Arg Ala Ile Ser Arg Trp Tyr Gln Asp Arg
85      90      95
Tyr Gln Val Asp Ile Asp Pro Glu Asn Glu Ala Ile Val Thr Ile Gly
100     105     110
Ser Lys Glu Gly Leu Ala His Leu Met Leu Ala Thr Leu Asp His Gly
115     120     125
Asp Thr Val Leu Val Pro Asn Pro Ser Tyr Pro Ile His Ile Tyr Gly
130     135     140
Ala Val Ile Ala Gly Ala Gln Val Arg Ser Val Pro Leu Val Glu Gly
145     150     155     160
Val Asp Phe Phe Asn Glu Leu Glu Arg Ala Ile Arg Glu Ser Tyr Pro
165     170     175
Lys Pro Lys Met Met Ile Leu Gly Phe Pro Ser Asn Pro Thr Ala Gln
180     185     190
Cys Val Glu Leu Glu Phe Phe Glu Lys Val Val Ala Leu Ala Lys Arg
195     200     205
Tyr Asp Val Leu Val Val His Asp Leu Ala Tyr Ala Asp Ile Val Tyr
210     215     220
Asp Gly Trp Lys Ala Pro Ser Ile Met Gln Val Pro Gly Ala Arg Asp
225     230     235     240
Val Ala Val Glu Phe Phe Thr Leu Ser Lys Ser Tyr Asn Met Ala Gly
245     250     255
Trp Arg Ile Gly Phe Met Val Gly Asn Lys Thr Leu Val Ser Ala Leu
260     265     270
Ala Arg Ile Lys Ser Tyr His Asp Tyr Gly Thr Phe Thr Pro Leu Gln
275     280     285
Val Ala Ala Ile Ala Ala Leu Glu Gly Asp Gln Gln Cys Val Leu Asp
290     295     300
Ile Ala Ala Gln Tyr Lys Arg Arg Arg Asp Val Leu Val Lys Gly Leu
305     310     315     320
His Glu Ala Gly Trp Met Val Glu Met Pro Lys Ala Ser Met Tyr Val
325     330     335
Trp Ala Lys Ile Pro Glu Pro Tyr Ala Ala Met Gly Ser Leu Glu Phe
340     345     350
Ala Lys Lys Leu Leu Gln Asp Ala Lys Val Cys Val Ser Pro Gly Ile
355     360     365
Gly Phe Gly Asp Tyr Gly Asp Thr His Val Arg Phe Ala Leu Ile Glu
370     375     380
Asn Ser Asp Arg Ile Arg Gln Ala Val Arg Gly Ile Lys Ser Met Phe
385     390     395     400
Arg Ala Asp Gly Leu Leu Ala Ala Lys Ser Val Ala Glu Gln Pro Glu
405     410     415

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Ser

<210> 7135

<211> 327

<212> PRT

<213> *Enterobacter cloacae*

<400> 7135

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Arg Ser Ser Arg Arg Met Thr Lys Tyr Ala Leu Val Gly Asp Val Gly
1      5      10      15
Gly Thr Asn Ala Arg Leu Ala Leu Cys Asp Val Asn Ser Gly Glu Ile
20      25      30
Ser Gln Ala Lys Thr Tyr Ser Gly Leu Asp Tyr Pro Ser Leu Glu Ala
35      40      45
Val Val Arg Val Tyr Leu Glu His Lys Val Ser Val Glu Asp Gly
50      55      60
Cys Ile Ala Ile Ala Cys Pro Ile Thr Gly Asp Trp Val Ala Met Thr
65      70      75      80
Asn His Thr Trp Ala Phe Ser Ile Ala Glu Met Arg Lys Asn Leu Gly
85      90      95
Phe Ser His Leu Glu Ile Ile Asn Asp Phe Thr Ala Val Ser Met Ala
100     105     110
Ile Pro Met Leu Lys Pro Glu His Leu Ile Gln Phe Gly Gly Thr Ala
115     120     125
Pro Val Glu Gly Lys Pro Ile Ala Val Tyr Gly Ala Gly Thr Gly Leu
130     135     140
Gly Val Ala His Leu Val His Val Asp Lys Arg Trp Val Ser Leu Pro
145     150     155     160
Gly Glu Gly Gly His Val Asp Phe Ala Pro Asn Ser Glu Glu Glu Gly
165     170     175
Ile Ile Leu Glu Glu Leu Arg Ala Glu Ile Gly His Val Ser Ala Glu
180     185     190
Arg Val Leu Ser Gly Pro Gly Leu Val Asn Leu Tyr Arg Ala Ile Val
195     200     205
Lys Ser Asp Gly Arg Leu Pro Glu Asn Leu Gln Pro Lys Asp Val Thr
210     215     220
Glu Arg Ala Leu Ala Asp Ser Cys Ile Asp Cys Arg Arg Ala Leu Ser
225     230     235     240
Leu Phe Cys Val Ile Met Gly Arg Phe Gly Gly Asn Leu Ala Leu Asn
245     250     255
Leu Gly Thr Phe Gly Gly Val Tyr Ile Ala Gly Gly Ile Val Pro Arg
260     265     270
Phe Leu Asp Phe Phe Thr Ala Ser Gly Phe Arg Gly Gly Phe Glu Asp
275     280     285
Lys Gly Arg Phe Arg Ser Tyr Val Gln Asp Ile Pro Val Tyr Leu Ile
290     295     300
Val His Asp Asn Pro Gly Leu Leu Gly Ser Gly Ala His Leu Arg Gln
305     310     315     320
Val Leu Gly Gln Ile Leu
325

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<210> 7136

<211> 472

<212> PRT

<213> *Enterobacter cloacae*

<400> 7136

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Ile Cys Val Pro Ala Cys Leu Leu Lys Val Gln Thr Met Glu Thr Tyr
1      5      10      15
Leu Gln Thr Val Lys Glu Glu Trp Val Lys Leu Ile Asn Glu Thr Asp
20      25      30
Pro Asp Val His Arg Leu Ala Thr Glu Leu Ala Arg Asp Asn Ala Thr
35      40      45

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Pro Leu Val Ala Glu Phe Tyr Arg Val Val Leu Ala Asp Pro Ser Ala
 50 55 60
 Ala Glu Phe Leu Thr Thr Glu Gln Val Glu Arg Gln Leu Gln Glu Ala
 65 70 75 80
 Leu Arg Arg Trp Leu Ile Asp Val Leu Ser Cys Arg Val Glu Gln Val
 85 90 95
 Glu Glu Gln Met Arg Ala Gln Gln Arg Ala Ala Asp Val His Ala Arg
 100 105 110
 Ile Gly Ile Ser Val Asp Leu Val Glu Met Gly Phe Arg Val Leu Lys
 115 120 125
 Lys Leu Leu Leu Pro Val Ile Thr Thr Ser Ala His Ser Pro Glu Val
 130 135 140
 Lys Leu His Ile Tyr His Tyr Ala Ile Asn Ser Ile Asp Leu Ala Met
 145 150 155 160
 Glu Val Met Ser Arg Ala Tyr Val Phe Ser Glu Asn Asn Ala Ala Lys
 165 170 175
 Glu Asp Glu Asn Tyr Arg Ile Phe Ser Leu Met Glu Asn Ala Glu Glu
 180 185 190
 Glu Lys Glu Arg Gln Thr Ala Ala Leu Leu Ser Trp Glu Met Val Leu
 195 200 205
 Leu Tyr Lys Ile Thr Leu Asn Ser Ser Ile Gly Asn Ser Leu Pro Leu
 210 215 220
 Gly Gln Ser Glu Phe Gly Leu Trp Phe Ser His Lys Gly Arg His Tyr
 225 230 235 240
 Phe Ser Gly Ile Ala Glu Ala Gly His Ile Ser Arg Leu Ile Gln Glu
 245 250 255
 Phe Asp Asp Leu Phe Asn Glu Val Arg Leu Ser Gly Gln Gly Leu Ser
 260 265 270
 Asp Lys Ala Gln Arg Asp Lys Phe Leu Gln Arg Met Arg Asn Thr Leu
 275 280 285
 Ser Gln Ile Ile Thr Leu Leu Arg Glu Leu Phe Asp Glu Val Ser Arg
 290 295 300
 His Glu Val Gly Val Asp Val Leu Thr Arg Leu Leu Asn Arg Arg Phe
 305 310 315 320
 Leu Pro Thr Ile Phe Lys Arg Glu Ile Leu His Ala Thr Arg Ala Gly
 325 330 335
 Thr Lys Leu Ser Thr Leu Leu Ile Asp Val Asp Lys Phe Lys Gln Ile
 340 345 350
 Asn Asp Thr Trp Gly His Asn Thr Gly Asp Glu Ile Leu Arg Lys Val
 355 360 365
 Ser Gly Ala Phe Tyr Asp Asn Val Arg Thr Cys Asp Tyr Val Phe Arg
 370 375 380
 Tyr Gly Gly Asp Glu Phe Leu Ile Val Leu Thr Glu Ile Ser Glu Val
 385 390 395 400
 Asp Ala Leu Arg Ile Ala Glu Arg Ile Arg Arg Arg Val Glu Lys Ile
 405 410 415
 Lys Val Asn Ser Pro Thr Gly Asp Ile Ile Pro Leu Ser Leu Ser Ile
 420 425 430
 Gly Val Ala Met Phe Asn Gly His Pro Asp Tyr Glu Arg Leu Ile Gln
 435 440 445
 Ala Ala Asp Glu Ala Leu Tyr Gly Val Lys Arg Arg Gly Arg Asn Cys
 450 455 460
 Val Glu Leu Trp Lys Gly Ala
 465 470

<210> 7137

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7137

Arg Glu Arg Val Val Ile Val Leu Val Asp Ile Gly Lys Arg Ala Val
 1 5 10 15
 Thr Ile Thr Cys Thr Phe Gln Ala Glu His His Arg Leu Arg His Arg
 20 25 30
 Trp His Ser Thr Ile Ala Ile Leu Asn Arg Glu Lys Phe Met Lys Leu
 35 40 45
 Arg Leu Ser Ala Leu Ala Leu Gly Val Thr Met Leu Val Gly Cys Ala
 50 55 60
 Ser Ser Gly Glu Gln Thr Gly Arg Ser Asp Pro Leu Glu Gly Phe Asn
 65 70 75 80
 Arg Ser Met Tyr Ser Phe Asn Tyr Asn Val Leu Asp Pro Tyr Leu Val
 85 90 95
 Arg Pro Val Ala Val Ala Trp Arg Asp Tyr Val Pro Gln Pro Ala Arg
 100 105 110
 Asn Gly Leu Ser Asn Phe Thr Ser Asn Leu Glu Glu Pro Ala Val Met
 115 120 125
 Val Asn Tyr Phe Leu Gln Gly Asp Pro Tyr Gln Gly Met Val His Phe
 130 135 140
 Thr Arg Phe Phe Leu Asn Ser Leu Leu Gly Met Gly Gly Leu Ile Asp
 145 150 155 160
 Val Ala Gly Met Ala Asn Pro Lys Leu Gln Arg Glu Gln Pro His Arg
 165 170 175
 Phe Gly Ser Thr Leu Gly His Tyr Gly Val Gly Tyr Gly Pro Tyr Val
 180 185 190
 His Leu Pro Phe Tyr Gly Ser Phe Thr Val Arg Asp Asp Gly Gly Asp
 195 200 205
 Met Val Asp Thr Leu Tyr Pro Val Leu Ser Trp Leu Thr Trp Pro Leu
 210 215 220
 Ser Ile Gly Lys Trp Thr Val Glu Gly Ile Glu Thr Arg Ala Gln Leu
 225 230 235 240
 Leu Asp Ser Asp Gly Leu Leu Arg Gln Ser Ser Asp Pro Tyr Ile Met
 245 250 255
 Val Arg Glu Ala Tyr Phe Gln Asn His Asp Phe Ile Ala Asn Gly Gly
 260 265 270
 Lys Leu Lys Pro Glu Asp Asn Pro Asn Ala Lys Ala Ile Glu Asn Glu
 275 280 285
 Leu Lys Asp Ile Asp Ser Glu
 290 295

<210> 7138

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7138

Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
 1 5 10 15
 Arg Trp Pro Gln His Asp Phe Pro Pro Phe Lys Lys Leu Arg Pro Gln
 20 25 30
 Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
 35 40 45
 Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
 50 55 60
 Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
 65 70 75 80
 Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
 85 90 95
 Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
 100 105 110
 Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
 115 120 125

Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
 130 135 140
 Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
 145 150 155 160
 Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 7139

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 7139

Cys Cys Gln Leu Thr Asp Leu Val Tyr Asp Gly Val Phe Glu Val Leu
 1 5 10 15
 Gln Trp Leu Leu Phe Leu Ser Ala Val Pro Pro Val Gln Leu Leu Thr
 20 25 30
 Gly Trp Cys Val Thr Val Lys Val Leu Pro Asp Ile Ser Ala Ile Ser
 35 40 45
 Ala Leu Thr Ala Val Lys His Gly Ser Tyr Ser Ser His Thr Gln Pro
 50 55 60
 Leu Asn Pro Val Arg Thr Arg Lys Ser Leu Ile Trp Pro
 65 70 75

<210> 7140

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 7140

Pro Gly Arg Asn Pro Ser Cys Ile Pro Ser Trp Ser Gly Leu Glu Gln
 1 5 10 15
 Arg Ala Arg Leu Ala Ala Glu Phe Met Tyr Gly Leu Leu Ser Arg Gln
 20 25 30
 Gly Val Ile Asp Thr Ala Phe Ala Ser Leu Thr Thr Lys Pro His Leu
 35 40 45
 Thr Gln Asp Gln Gln Ala Leu Ile Gln Asp Ile Leu Thr Asp Ile Arg
 50 55 60
 Ile Tyr Gly Gln Pro His Phe Asp Val Thr Ala Phe Tyr Asn Gly Met
 65 70 75 80
 Leu Ser Tyr Leu Asn Arg Gly Arg Phe Arg Ala Thr Gly Glu Leu Thr
 85 90 95
 Thr Gln Asp Arg Leu Arg Glu Val Phe Arg Ile Ser Ser Ile Asp Glu
 100 105 110
 Phe Arg Ala Leu Leu Ala Asn Glu Pro Met Leu Val Leu Pro Glu Cys
 115 120 125
 Pro Asp Asn Lys Leu Thr Leu Glu Ala Phe Phe Trp Arg Asp Glu Tyr
 130 135 140
 Phe Asn Ser Gln Gly Pro Asp Ala Leu Leu Ser Tyr Leu Phe Ser Pro
 145 150 155 160
 Glu Gln Ile Gln Arg Tyr Leu Asn Val Arg Ala Glu Phe Glu Asp Lys
 165 170 175
 Gly Lys Thr Val Glu Lys Leu Ser Ala Gly Gln Arg Gly Thr Phe Tyr
 180 185 190
 Val Cys Leu Lys Leu Ala Ala Asp Ala Phe Gly Ser Pro Phe Val Phe
 195 200 205
 Asp Gln Pro Glu Asp Asp Leu Asp Asn Glu Phe Ile Met His Ser Leu
 210 215 220
 Val Pro Leu Phe Arg Lys Ile Lys Gln Tyr Arg Gln Val Ile Ile Val
 225 230 235 240
 Thr His Asn Ala Asn Leu Val Val Asn Cys Asp Ala Glu Gln Val Ile

245 250 255
 Ile Ala Ala Asn Asn Asp Glu Val Ile Ser Tyr Arg Ser Gly Ala Leu
 260 265 270
 Glu Tyr Gly Asp His Gly Ala Pro Asn Ser Met Cys Lys Ala Ile Cys
 275 280 285
 Asp Val Leu Glu Gly Gly Arg Gln Ala Phe Glu Ala Arg Glu Gln Lys
 290 295 300
 Tyr Gly Met Val Trp Leu Asn Ala Ile
 305 310

<210> 7141

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7141

Gly Ala Pro Val Ala Ser Val Ser Ile Ser Cys Pro Ser Cys Ser Ala
 1 5 10 15
 Thr Asp Gly Val Val Arg Asn Gly Lys Ser Thr Ala Gly His Gln Arg
 20 25 30
 Tyr Leu Cys Ser His Cys Arg Lys Thr Trp Gln Leu Gln Phe Thr Tyr
 35 40 45
 Thr Ala Ser Gln Pro Gly Thr His Gln Lys Ile Ile Asp Met Ala Met
 50 55 60
 Asn Gly Val Gly Cys Arg Ala Thr Ala Arg Ile Met Gly Val Gly Leu
 65 70 75 80
 Asn Thr Ile Phe Arg His Leu Lys Asn Ser Gly Arg Ser Arg
 85 90 95

<210> 7142

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7142

Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
 1 5 10 15
 Arg Trp Pro Gln His Asp Phe Pro Phe Lys Lys Leu Arg Pro Gln
 20 25 30
 Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
 35 40 45
 Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
 50 55 60
 Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
 65 70 75 80
 Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Arg Leu
 85 90 95
 Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
 100 105 110
 Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
 115 120 125
 Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
 130 135 140
 Arg Leu Gly Arg Thr Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
 145 150 155 160
 Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 7143

<211> 78

<212> PRT

<213> *Enterobacter cloacae*

<400> 7143

Cys Cys Gln Leu Thr Asp Leu Val Tyr Asp Gly Val Phe Glu Val Leu
 1 5 10 15
 Gln Trp Leu Leu Phe Leu Ser Ala Val Pro Pro Val Gln Leu Thr
 20 25 30
 Gly Trp Cys Val Thr Ala Lys Ala Leu Pro Asp Ile Ser Ala Ile Ser
 35 40 45
 Ala Leu Thr Ala Val Lys His Gly Asn Cys Ser Ser Leu Thr Pro Leu
 50 55 60
 Leu Asn Pro Val Arg Thr Arg Lys Ser Leu Ile Trp Pro
 65 70 75

<210> 7144

<211> 95

<212> PRT

<213> *Enterobacter cloacae*

<400> 7144

Gly Ala Pro Val Ala Ser Val Ser Ile Ser Cys Pro Ser Cys Ser Ala
 1 5 10 15
 Thr Asp Gly Val Val Arg Asn Gly Lys Ser Thr Ala Gly His Gln Arg
 20 25 30
 Tyr Leu Cys Ser His Cys Arg Lys Thr Trp Gln Leu Gln Phe Thr Tyr
 35 40 45
 Thr Ala Ser Gln Pro Gly Thr His Gln Lys Ile Ile Asp Met Ala Met
 50 55 60
 Asn Gly Val Gly Cys Arg Ala Thr Ala Arg Ile Met Gly Val Gly Leu
 65 70 75 80
 Asn Thr Ile Phe Arg His Leu Lys Asn Ser Gly Arg Ser Arg
 85 90 95

<210> 7145

<211> 243

<212> PRT

<213> *Enterobacter cloacae*

<400> 7145

Cys Thr His His Leu Asn Thr Phe Asp Gly Gly Val Ser Arg Leu His
 1 5 10 15
 Gly Phe Lys Ser Gln Arg Gly Ala Asp Tyr Pro Phe Gln Phe Ala Met
 20 25 30
 Ile Ala Phe Asn His Val Val Pro Val Leu Asn Leu Ser Val Phe Asn
 35 40 45
 Val Arg Arg Ala Pro Ala Phe Ala Phe Glu Gln Ser Lys Arg Ala Thr
 50 55 60
 Ile Gly Gly Arg Phe Ile Arg Val Asp Glu Ser Arg Asp Leu Pro Leu
 65 70 75 80
 Leu His Val Val Glu Asp Phe Thr Gln Lys Pro Val Cys Ser Phe Ala
 85 90 95
 Val Thr Thr Gly Gly Glu Ile Lys Ile Asp Ser Ala Ala Pro Ala Val
 100 105 110
 Asp Gly Pro Val Gln Ile Arg Pro Ala Ala Ile Asp Leu His Val Gly
 115 120 125
 Phe Ile His Val Pro Arg Ala Lys Ile Gly Arg Val Thr Pro Val Pro
 130 135 140
 Ala Gln Pro Phe Phe His Phe Arg Arg Ile Thr Leu Asn Pro Ala Val
 145 150 155 160
 Asn Arg Gly Val Ile Asp Ile His Ser Ala Phe Ser Gln His Leu Leu
 165 170 175

Gln Leu Thr Val Thr Asp Ala Val Phe Ala Val Pro Ala Tyr Gly Pro
 180 185 190
 Gln Asn Asp Val Thr Leu Lys Met Pro Ala Phe Glu Trp Val His Val
 195 200 205
 Gln Leu His Gln Gln Lys Gly Met Ile Ser Leu Ser Pro Pro Thr Ile
 210 215 220
 Cys Asn Ser Ala Asn Arg Asn Asp Lys Asn Glu Pro Pro Gly Cys Asp
 225 230 235 240
 Gly Leu

<210> 7146

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7146

Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser
 1 5 10 15
 Asp Val Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
 20 25 30
 Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
 35 40 45
 Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
 50 55 60
 Thr Ser Lys Gly Asp Ser Ser Leu Ile Arg Arg Pro Ser Val Ala Ile
 65 70 75 80
 Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
 85 90 95
 Tyr Ala

<210> 7147

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 7147

Ala Ile Asn Pro Met Arg Ile Leu Leu Val Glu Asp Asp Pro Met Val
 1 5 10 15
 Gly Glu Val Val Thr Ser Ser Leu Lys Asp Asn Ala Trp Ala Val Asp
 20 25 30
 Trp Val Lys Ser Gly Asn Asp Ala Cys Val Gly Phe Ser Thr Trp Gln
 35 40 45
 Tyr Asp Val Ile Leu Leu Asp Leu Gly Leu Pro Gly Lys Asp Gly Leu
 50 55 60
 Thr Val Leu Ala Glu Ile Arg Gln Lys Ala Leu Pro Val Pro Val Leu
 65 70 75 80
 Ile Leu Thr Ala Arg Asp Ala Leu Glu Asp Arg Leu Lys Gly Leu Asp
 85 90 95
 Gly Gly Ala Asp Tyr Ile Leu Lys Pro Phe Glu Met Ser Glu Leu
 100 105 110
 Leu Ala Arg Ile Arg Ala Val Ile Arg Arg Asn Thr Gly Asn Gly Asn
 115 120 125
 Pro Val Leu Ser Asn Gly Val Leu Thr Leu Asp Pro Val Thr His Glu
 130 135 140
 Ala Ser Ile Ser Glu Thr Gln Gln Lys Phe Leu Leu Ser Asn Arg Glu
 145 150 155 160
 Tyr Ala Leu Leu Glu Ala Leu Met Leu Arg Pro Gly Gly Ile Leu Ser
 165 170 175
 Arg Ser Ala Leu Glu Asp Arg Ile Tyr Gly Trp Gly Asp Glu Val Glu

180 185 190
 Ser Asn Ala Ile Glu Phe Leu Ile His Ala Leu Arg Lys Lys Leu Gly
 195 200 205
 Arg Asp Ala Ile Lys Asn Val Arg Gly Val Gly Trp Leu Val Ser Lys
 210 215 220
 Asn Gly
 225

<210> 7148

<211> 471

<212> PRT

<213> Enterobacter cloacae

<400> 7148

Thr Met Phe Gly Leu Asp Ala Phe His Leu Ala Arg Val Gln Phe Ala
 1 5 10 15
 Phe Thr Val Ser Phe His Ile Ile Phe Pro Ala Ile Thr Ile Gly Leu
 20 25 30
 Ala Ser Phe Leu Ala Val Leu Glu Gly Leu Trp Leu Lys Thr Arg Asn
 35 40 45
 Asp Thr Tyr Lys Glu Leu Tyr His Phe Trp Ser Lys Ile Phe Ala Val
 50 55 60
 Asn Phe Gly Met Gly Val Val Ser Gly Leu Val Met Ala Tyr Gln Phe
 65 70 75 80
 Gly Thr Asn Trp Ser Gly Phe Ser Gln Phe Ala Gly Ser Ile Thr Gly
 85 90 95
 Pro Leu Leu Thr Tyr Glu Val Leu Thr Ala Phe Phe Leu Glu Ala Gly
 100 105 110
 Phe Leu Gly Val Met Leu Phe Gly Trp Asn Arg Val Gly Pro Gly Leu
 115 120 125
 His Phe Phe Ala Thr Cys Met Val Ala Leu Gly Thr Leu Phe Ser Thr
 130 135 140
 Phe Trp Ile Leu Ser Ser Asn Ser Trp Met Gln Thr Pro Gln Gly Tyr
 145 150 155 160
 Ala Ile Glu Asn Gly Val Val Ile Pro Val Asp Trp Leu Lys Ile Ile
 165 170 175
 Phe Asn Pro Ser Phe Pro Phe Arg Leu Leu His Met Ser Thr Ala Ala
 180 185 190
 Phe Leu Ala Ser Ala Phe Phe Val Gly Ala Ser Ala Ala Trp His Leu
 195 200 205
 Leu Lys Gly Asn Asp Thr Pro Ala Ile Arg Lys Met Phe Ser Met Ala
 210 215 220
 Leu Trp Met Ala Leu Ile Val Ser Pro Ile Gln Ala Val Ile Gly Asp
 225 230 235 240
 Ala His Gly Leu Asn Thr Leu Glu His Gln Pro Ala Lys Ile Ala Ala
 245 250 255
 Ile Glu Gly His Trp Glu Asn Lys Pro Gly Glu Ala Thr Pro Leu Val
 260 265 270
 Leu Phe Gly Leu Pro Asp Met Asn Ala Glu Glu Thr Lys Tyr Lys Ile
 275 280 285
 Glu Val Pro Tyr Leu Gly Ser Ile Ile Leu Thr His Ser Leu Asp Lys
 290 295 300
 Gln Val Pro Ala Leu Lys Ser Phe Pro Lys Glu Asp Arg Pro Asn Ser
 305 310 315 320
 Thr Ile Ile Phe Trp Ser Phe Arg Val Met Ala Gly Leu Gly Met Leu
 325 330 335
 Met Ile Leu Leu Gly Val Val Ser Val Trp Leu Arg Trp Arg Lys Arg
 340 345 350
 Leu Tyr Thr Ser Lys Pro Phe Leu Tyr Phe Ser Leu Phe Met Gly Pro
 355 360 365
 Ser Gly Leu Ile Ala Leu Leu Ala Gly Trp Phe Thr Thr Glu Ile Gly

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      370              375              380
Arg Gln Pro Trp Val Val Tyr Gly Val Gln Arg Thr Lys Asp Ala Val
385              390              395              400
Ser Ala His Gly Asp Leu His Met Ser Ile Ser Leu Leu Ala Phe Leu
              405              410              415
Leu Val Tyr Thr Ser Val Phe Gly Val Gly Tyr Ile Tyr Leu Val Arg
              420              425              430
Leu Ile Lys Lys Gly Pro Val His Ala Glu Glu His Gln Glu Val Thr
              435              440              445
Asp Gly Thr Pro Ala Arg Pro Leu Ser Ala Val Asn Glu Gly Leu Ala
              450              455              460
Thr Arg Gly Arg Asp Lys
465              470

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<210> 7149

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 7149

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Thr Tyr His Pro Leu Leu Met Glu Leu His Met Asn Pro Phe Lys
1              5              10              15
Gly Arg His Phe Gln Arg Asp Ile Ile Leu Trp Ala Val Arg Trp Tyr
              20              25              30
Cys Lys Tyr Gly Ile Ser Tyr Arg Glu Leu Gln Glu Met Leu Ala Glu
              35              40              45
Arg Gly Val Asn Val Asp His Ser Thr Ile Tyr Arg Trp Val Gln Arg
              50              55              60
Tyr Ala Pro Glu Met Glu Lys Arg Leu Arg Trp Tyr Trp Arg Asn Pro
65              70              75              80
Ser Asp Leu Cys Pro Trp His Met Asp Glu Thr Tyr Val Lys Val Asn
              85              90              95
Gly Arg Trp Ala Tyr Leu Tyr Arg Ala Val Asp Ser Arg Gly Arg Thr
              100              105              110
Val Asp Phe Tyr Leu Ser Ser Arg Arg Asn Ser Lys Ala Ala Tyr Arg
              115              120              125
Phe Leu Gly Lys Ile Leu Asn Asn Val Lys Lys Trp Gln Ile Pro Arg
              130              135              140
Phe Ile Asn Thr Asp Lys Ala Pro Ala Tyr Gly Arg Ala Leu Ala Leu
145              150              155              160
Leu Lys Arg Glu Gly Arg Cys Pro Ser Asp Val Glu His Arg Gln Ile
              165              170              175
Lys Tyr Arg Asn Asn Val Ile Glu Cys Asp His Gly Lys Leu Lys Arg
              180              185              190
Ile Ile Gly Ala Thr Leu Gly Phe Lys Ser Met Lys Thr Ala Tyr Ala
              195              200              205
Thr Ile Lys Gly Ile Glu Val Met Arg Ala Leu Arg Lys Gly Gln Ala
              210              215              220
Ser Ala Phe Tyr Tyr Gly Asp Pro Leu Gly Glu Met Arg Leu Val Ser
225              230              235              240
Arg Val Phe Glu Met
              245

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<210> 7150

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7150

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Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser
1              5              10              15

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Asp Phe Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
 20 25 30
 Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
 35 40 45
 Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
 50 55 60
 Thr Ser Lys Gly Asp Ser Arg Leu Ile Arg Arg Pro Ser Val Ala Ile
 65 70 75 80
 Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
 85 90 95
 Tyr Ala

<210> 7151

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 7151

Lys Cys Gln Gly Ser Arg Met Ala Gly Phe Lys Lys Arg Met Lys Thr
 1 5 10 15
 Ser Val Gln Leu Arg Leu Ser Leu Ala Leu Gly Ile Ala Ile Leu Leu
 20 25 30
 Thr Ala Val Ile Ser Gly Gly Ile Thr Phe Tyr Leu Ala Leu Asp Glu
 35 40 45
 Ala Arg Glu Leu Gln Asp Asp Thr Leu Lys Gln Ile Ala Tyr Val Thr
 50 55 60
 Lys Ser Pro Gly His Asn Ala Leu Pro Glu Ile Lys Gly Gln Lys Arg
 65 70 75 80
 Ala Asp Glu Asp Ser Asp Gly Lys Ile Leu Val Glu Tyr Leu Thr Val
 85 90 95
 Ser Gly Thr Gln Asn Asp Asp Thr Gly Ile Thr Phe His Leu Pro Ala
 100 105 110
 Pro Val Arg Glu Gly Phe Gln Asn Ala Thr Ile Thr Gly Val Gln Tyr
 115 120 125
 Arg Val Leu Val His Arg Leu Thr Pro Glu Gln Phe Val Ile Val Gly
 130 135 140
 Gln Gln Thr Glu Val Arg Asp Glu Ile Ala Phe Ala Ser Ala Leu Arg
 145 150 155 160
 Thr Leu Ile Pro Phe Ile Leu Leu Leu Pro Val Leu Leu Leu Val Thr
 165 170 175
 Thr Asp Leu Ile Lys Lys Ser Phe Arg Pro Val Leu Asn Leu Ala Ala
 180 185 190
 Gly Val Tyr Arg Arg Asp Glu Arg Asp Leu Thr Pro Leu Arg Asp Asp
 195 200 205
 Asn Ile Pro Asp Glu Ile Arg Pro Phe Val Glu Ser Ile Asn Arg Leu
 210 215 220
 Leu His Lys Val Asn Asn Thr Ile Gln Ala Gln Lys Arg Phe Ile Ala
 225 230 235 240
 Asp Ala Ala His Glu Leu Arg Thr Pro Leu Thr Ala Leu Ser Leu Gln
 245 250 255
 Ala Glu Arg Leu Ser Gly Ser Asp Met Ser Ala Glu Ala Arg Glu Arg
 260 265 270
 Leu Ala Ala Leu Arg Leu Gly Leu Thr Arg Glu Lys Asn Leu Leu Glu
 275 280 285
 Gln Leu Leu Ser Leu Ala Arg Glu Gln Gln Pro Leu Gln Thr Gln Gly
 290 295 300
 Thr Glu Ala Val Ser Leu Asn Glu Val Phe Arg Gln Val Ile Glu Thr
 305 310 315 320
 Leu Leu Pro Leu Ala Leu Glu Lys Gly Ile Asp Ile Gly Val Val Glu
 325 330 335

Thr Pro Tyr Gln Ala Glu Ser Gln Val Ile Thr Glu Lys Asn Thr Leu
 340 345 350
 Tyr Thr Ala Leu Lys Asn Leu Val Glu Asn Ala Ile His Tyr Ile Pro
 355 360 365
 Glu Asn Gly Gln Ile Asp Leu Arg Leu Gln Phe Ile Asp Asn Ser Ala
 370 375 380
 Val Ile Asp Val Glu Asp Asn Gly Pro Gly Ile Ala Ala Glu Gln Arg
 385 390 395 400
 Glu Arg Val Phe Asp Ala Phe Tyr Arg Pro Ala Gly Thr Glu Lys Pro
 405 410 415
 Gly Ser Gly Leu Gly Leu Ser Ile Val Lys Ala Cys Val His Arg Leu
 420 425 430
 Gly Gly Thr Ile Ile Leu Ala Pro Ser Ser His Phe Pro Ser Gly Leu
 435 440 445
 Arg Ala Arg Ile Ile Leu Pro Val Glu Ser His Ser Gly
 450 455 460

<210> 7152

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 7152

Arg Tyr Arg Gly Cys Pro Val Pro Pro Gly Ser Leu Cys Ile Arg Ala
 1 5 10 15
 Arg Asn Ser Met Lys Asp Glu Ile Ala Arg Gln Ile Ala Gly Leu Ile
 20 25 30
 Glu Leu Asn Lys Phe Asn Gly Tyr Thr Leu Val Ser Gly Glu Asp Trp
 35 40 45
 Gln Lys Pro Thr Val Thr Glu Ile Leu Leu Val Arg Gly Phe Ile Pro
 50 55 60
 Leu Thr Asp Asn Gln Leu Ala Asn Arg Leu Asp Val Asp Glu Arg Thr
 65 70 75 80
 Ile Arg Lys Trp Lys Ser Gly Glu Thr Ser Met Val Tyr Thr Thr Trp
 85 90 95
 Cys Cys Leu Cys Trp Leu Ala Gly Leu Gly Met Pro Leu Asp Asn Ile
 100 105 110
 Ile Ser Gly
 115

<210> 7153

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 7153

Gly Phe Gly Asn Thr Trp Glu Arg Gln Ile Met Gly Ile Asp Leu Ser
 1 5 10 15
 Ile Ile Trp Phe Val Ile Ile Val Phe Ala Thr Leu Met Tyr Ile Val
 20 25 30
 Met Asp Gly Phe Asp Leu Gly Ile Gly Ile Leu Phe Pro Phe His Lys
 35 40 45
 His Asp Val Asp Arg Asp Thr Met Met Asn Thr Val Ala Pro Val Trp
 50 55 60
 Asp Gly Asn Glu Thr Trp Met Val Leu Gly Gly Ala Ala Leu Tyr Gly
 65 70 75 80
 Ala Phe Pro Leu Ala Tyr Ala Val Ile Ile Asp Ala Leu Ser Ile Pro
 85 90 95
 Leu Thr Ala Met Leu Leu Gly Leu Ile Phe Arg Gly Val Ala Phe Glu
 100 105 110
 Phe Arg Phe Lys Ala Ile Pro Glu His Arg Pro Ile Trp Asp Lys Ala

115 120 125
 Phe Ile Val Gly Ser Val Leu Ala Thr Phe Ser Gln Gly Val Ala Val
 130 135 140
 Gly Thr Leu Leu Asn Gly Leu Ser Val Ser Gly Arg Ala Phe Ser Gly
 145 150 155 160
 Ser Ala Leu Val Trp Leu Ala Pro Phe Pro Leu Phe Cys Gly Leu Gly
 165 170 175
 Leu Val Leu Ala Tyr Ala Leu Leu Gly Cys Thr Trp Leu Ile Met Lys
 180 185 190
 Thr Glu Asp Ser Phe His Arg Arg Met Ser Glu Leu Ala Thr Pro Leu
 195 200 205
 Thr Ile Gly Leu Leu Ala Val Ile Ala Ile Ile Ser Val Trp Thr Pro
 210 215 220
 Leu Thr His Pro Glu Ile Ala Ser Arg Trp Phe Ser Met Pro Asn Val
 225 230 235 240
 Ile Phe Phe Leu Pro Val Pro Leu Leu Val Leu Val Cys Cys Trp Gly
 245 250 255
 Ile Val Arg Ser Val Tyr Ser Arg Arg Ser Ser Phe Gly Pro Phe Met
 260 265 270
 Leu Thr Leu Gly Leu Ile Phe Leu Gly Phe Ser Gly Leu Gly Ile Ser
 275 280 285
 Ile Trp Pro Tyr Ile Ile Pro Pro Ser Val Thr Ile Trp Gln Ala Ala
 290 295 300
 Ser Pro Pro Gln Ser Gln Gly Phe Met Leu Ile Gly Gly Leu Leu Ile
 305 310 315 320
 Ile Pro Val Ile Leu Met Tyr Thr Cys Trp Ser Tyr Tyr Val Phe Arg
 325 330 335
 Gly Lys Val Lys Thr Gly Asp Gly Tyr His
 340 345

<210> 7154

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7154

Ile Ile Tyr Ile Ser Thr Ile Tyr Met Thr Ser Leu Arg Leu Phe Arg
 1 5 10 15
 Ala Cys Thr Thr Leu Gln Arg His Phe Glu Leu Tyr Asn Ile Phe Cys
 20 25 30
 Glu Phe Ser Ser Lys Leu Tyr Thr Tyr Asn His Met Ile Asn Ile Tyr
 35 40 45
 Phe Ile Lys Tyr Ile Ile Lys Tyr Leu Lys Asn Cys Thr Phe Leu Met
 50 55 60
 Tyr Arg Phe Glu Asn Tyr Val Tyr Leu Lys Cys Asn Val Thr Asp Tyr
 65 70 75 80
 Glu Asn Leu Gln Glu Arg Asn Met Gln Gln Asn Gly His Leu Ala Asp
 85 90 95
 Thr Ala Thr Ala Ile Ala Gln Tyr Phe Glu Lys Ala Ala Leu Pro Thr
 100 105 110
 Gln Gln Glu Thr Leu Gly Gln Val Val Val Glu Ile Leu Ser Asp Gly
 115 120 125
 Arg Asn Leu Asn Arg Lys Ser Leu Cys Thr Lys Leu Leu Ser Arg Leu
 130 135 140
 Glu Lys Ala Asn Gly Pro Glu Glu Glu His His Tyr His Met Leu Leu
 145 150 155 160
 Gly Leu Leu Phe Glu Arg
 165

<210> 7155

<211> 127

<212> PRT

<213> *Enterobacter cloacae*

<400> 7155

Glu Gln Met Arg Gln Asn Ile Gln Leu Gln Pro Glu Tyr His Ser Ala
 1 5 10 15
 Phe Leu Asp Ser Ala Leu Ser Glu Tyr Phe Arg His Ala Gly Asp Arg
 20 25 30
 Phe Ala Glu Glu Ser Ala Ile Phe Ser Thr Ala Val Arg Cys Val Leu
 35 40 45
 Ala Ser Glu Gly His Leu Thr Asn Lys Ser Ile Ile Leu Trp Leu Ile
 50 55 60
 Gln Thr Leu Glu Ser Thr Asp Asp Val Val Lys Ala Asp Val Ile Arg
 65 70 75 80
 Lys Thr Leu Glu Ile Val Val Gly Tyr Thr Met Asp Asp Leu Tyr Arg
 85 90 95
 Leu Thr Leu Pro Ile Ser Ser Asp Ser Val Ser Ser Ser Ile Leu Thr
 100 105 110
 Asn Gly Leu Thr Ile Thr Cys Pro Leu Ser Pro Asn Ala Leu
 115 120 125

<210> 7156

<211> 728

<212> PRT

<213> *Enterobacter cloacae*

<400> 7156

Thr Leu Leu His Phe Leu Thr Gly Leu Leu Met Lys Lys Ile Ala
 1 5 10 15
 Ser Val Cys Pro Tyr Cys Gly Ala Gly Cys Lys Leu Asn Leu Val Val
 20 25 30
 Lys Asn Asn Arg Ile Ile Arg Ala Glu Ala Ala Asp Gly Val Thr Asn
 35 40 45
 Gln Gly Thr Leu Cys Leu Lys Gly Phe Tyr Gly Trp Asp Phe Leu Asn
 50 55 60
 Asp Thr Arg Leu Leu Thr Pro Arg Leu Thr Gln Pro Met Ile Arg Tyr
 65 70 75 80
 Ser Lys Gly Glu Ala Phe Thr Pro Val Thr Trp Glu Glu Ala Ile Arg
 85 90 95
 Tyr Thr Ala Tyr Arg Leu Lys Ser Ile Lys Glu Gln Tyr Gly Pro Arg
 100 105 110
 Ser Ile Met Thr Thr Gly Ser Ser Arg Gly Thr Gly Asn Glu Thr Asn
 115 120 125
 Tyr Val Met Gln Lys Phe Ala Arg Ala Val Leu Asn Thr Asn Asn Val
 130 135 140
 Asp Cys Cys Ala Arg Val Cys His Gly Pro Ser Val Ala Gly Leu Gln
 145 150 155 160
 Glu Thr Leu Gly Asn Gly Ala Met Ser Asn Ser Ile Asn Asp Ile Glu
 165 170 175
 Asn Ser Lys Cys Leu Leu Val Phe Gly Tyr Asn Cys Ala Asp Ser His
 180 185 190
 Pro Ile Val Ala Arg Arg Val Leu Lys Ala Arg Glu Asn Gly Ala Lys
 195 200 205
 Ile Ile Val Cys Asp Pro Arg His Ile Glu Thr Ala Arg Ile Ala Asp
 210 215 220
 Leu His Leu Gln Leu Lys Asn Gly Ser Asn Met Ala Leu Val Asn Ala
 225 230 235 240
 Phe Gly Tyr Val Leu Leu Glu Glu Glu Leu Tyr Asp Lys Asn Tyr Val
 245 250 255
 Ala Arg Phe Thr Glu Gly Leu Glu Ala Tyr Arg Leu Thr Val Lys Asp
 260 265 270

Tyr Ala Pro Glu Gln Val Glu His Leu Thr Gly Ile Pro Ala Arg Asp
 275 280
 Val Arg Gln Ala Met Arg Met Phe Ala Ala Ala Pro Ser Ala Thr Val
 290 295 300
 Met Trp Gly Met Gly Val Thr Gln Phe Gly Gln Ala Val Asp Val Val
 305 310 315 320
 Lys Gly Leu Ser Ser Leu Ala Leu Leu Thr Gly Asn Leu Gly Arg Pro
 325 330 335
 Ala Val Gly Val Gly Pro Val Arg Gly Gln Asn Asn Val Gln Gly Ala
 340 345 350
 Cys Asp Met Gly Val Leu Pro Asn Met Phe Pro Gly Tyr Gln Asp Val
 355 360 365
 Thr Asp Pro Ala Val Arg Leu Lys Phe Ala Asp Ala Trp Lys Ile Asn
 370 375 380
 Val Asn Arg Met Asp Asp Arg Val Gly Thr Arg Ile Thr Glu Val Pro
 385 390 395 400
 His Leu Ala Leu Glu Gly Lys Ile Lys Ala Tyr Tyr Ile Met Gly Glu
 405 410 415
 Asp Pro Leu Gln Thr Glu Ala Asp Leu Gly Leu Val Arg Arg Gly Phe
 420 425 430
 Glu Ala Leu Asp Phe Val Val Val Gln Asp Ile Phe Met Thr Lys Thr
 435 440 445
 Ala Glu Leu Ala Asp Val Leu Leu Pro Ala Thr Ser Trp Gly Glu His
 450 455 460
 Ala Gly Val Phe Thr Cys Ala Asp Arg Gly Phe Gln Arg Phe Gly Lys
 465 470 475 480
 Ala Ile Glu Pro Ser Gly Asn Val Arg Arg Asp Trp Glu Ile Ile Ser
 485 490 495
 Leu Leu Ala Thr Glu Met Gly Tyr Pro Met His Tyr Glu Asp Asn Gln
 500 505 510
 Gln Ile Trp Asp Glu Met Arg Glu Leu Cys Pro Leu Phe Tyr Gly Val
 515 520 525
 Thr Tyr Glu Lys Met Gly Glu Met Gly His Val Gln Trp Pro Cys Pro
 530 535 540
 Thr Leu Asp His Pro Gly Thr Pro Tyr Leu Tyr Lys Asp Asn Gln Phe
 545 550 555 560
 Asp Thr Pro Thr Gly Lys Gly Gln Leu Phe Ala Ala Pro Trp Arg Ala
 565 570 575
 Pro Ala Glu Thr Pro Asp Ala Asp Tyr Pro Leu Val Leu Cys Thr Val
 580 585 590
 Arg Glu Val Gly His Tyr Ser Cys Arg Ser Met Thr Gly Asn Cys Ala
 595 600 605
 Ala Leu Gln Ser Leu Ala Asp Glu Pro Gly Arg Val Gln Ile Asn Pro
 610 615 620
 Ala Asp Ala Asp Glu Arg Gly Ile Ala Glu Gly Gln Leu Val Trp Val
 625 630 635 640
 Arg Ser Arg Arg Gly Lys Val Ile Thr Arg Ala Ser Ile Ser Glu Arg
 645 650 655
 Ile Asn Ala Gly Ala Ile Tyr Met Thr Tyr Gln Trp Trp Ile Gly Ala
 660 665 670
 Cys Asn Glu Leu Thr Gln Asp Asn Leu Asp Pro Ile Ser Arg Thr Pro
 675 680 685
 Glu Thr Lys Tyr Cys Ala Val Gln Leu Glu Ala Ile Glu Asp Gln Arg
 690 695 700
 Trp Ala Glu Asp Phe Ala Ala Ser Ala Tyr Gln Thr Met Lys Thr Arg
 705 710 715 720
 Leu Ile Ala Ala Val Asn Val
 725

<210> 7157

<211> 229

<212> PRT

<213> *Enterobacter cloacae*

<400> 7157

Gly Lys Lys Met Arg Phe Ile Thr Thr Thr Gly Leu Val Met Ala Leu
 1 5 10 15
 Leu Pro Leu Thr Leu Thr Ser Ala Ser Ala Gly Val Ile Ile Gly Gly
 20 25 30
 Thr Arg Val Ile Phe Asp Gly Ala Lys Lys Glu Ala Ser Ile Asn Ile
 35 40 45
 Thr Asn Pro Asp Asn Gly Pro Tyr Leu Ile Gln Ser Trp Ile Asp Val
 50 55 60
 Gln Asp Glu Gln Ser Gly Lys Ala Pro Phe Ile Thr Pro Pro Leu
 65 70 75 80
 Tyr Arg Leu Asp Gly Gly Gln Lys Asn Leu Glu Arg Ile Val Met Thr
 85 90 95
 Gly Ser Leu Pro Gln Gly Gln Glu Ser Leu Phe Trp Leu Asn Ile Lys
 100 105 110
 Ala Ile Pro Ser Ala Ser Lys Gln Met Asn Ser Leu Gln Ile Ala Val
 115 120 125
 Lys Thr Arg Ile Lys Leu Ile Tyr Arg Pro Glu Ala Leu Arg Ala Ser
 130 135 140
 Thr Pro Glu Glu Gln Ala Asn Lys Leu Thr Trp Arg Arg Ala Gly Asn
 145 150 155 160
 Thr Leu Leu Val Asn Asn Pro Thr Pro Tyr Val Ile Asn Phe Asn Glu
 165 170 175
 Ile Thr Leu Gly Asn Lys Lys Leu Asp Asp Val Thr Tyr Val Met Pro
 180 185 190
 Ser Gly Thr Ala Arg Phe Pro Leu Pro Asn Gly Thr Ser Gly Asn Thr
 195 200 205
 Leu Thr Phe Lys Val Ile Asn Asp Tyr Gly Ser Pro Gly Glu Leu His
 210 215 220
 Arg Ala Ser Leu
 225

<210> 7158

<211> 857

<212> PRT

<213> *Enterobacter cloacae*

<400> 7158

Ser Leu Arg Val Asn Gln Val Leu Val Met Thr Thr Ala Leu Asn Thr
 1 5 10 15
 Met Gln Pro Ala Arg Leu Ala Ile Phe Ile Ala Leu Ala Leu Ala Gly
 20 25 30
 Val Ser Pro Thr Leu Tyr Ala Ser Glu Thr Phe Asn Thr Glu Leu Val
 35 40 45
 Glu Leu Asp Asn Pro Gly Met Gly Lys Ala Asp Leu Ser Ala Phe Glu
 50 55 60
 Ser Gly Ser Gln Ala Pro Gly Thr Tyr His Val Asp Ile Ile Leu Asp
 65 70 75 80
 Asp Arg Leu Leu Glu Thr Arg Asp Ile Arg Phe Met Ala Val Lys Asp
 85 90 95
 Ala Asn Gly Ser Glu Thr Leu Gln Pro Cys Leu Ser Ile Gly Gln Leu
 100 105 110
 Lys Ala Trp Gly Val Lys Thr Ala Leu Phe Pro Gln Leu Asp Ala Gly
 115 120 125
 Glu Gly Glu Cys Ala Asp Leu Arg Ala Ile Pro Gln Ala Ser Ala Asp
 130 135 140
 Phe Gln Phe Gly Ala Gln Arg Leu Ala Ile Ser Ile Pro Gln Ala Ala
 145 150 155 160

Ile Asp Leu Pro Ala Arg Gly Tyr Val Pro Pro Asp Met Trp Asp Glu
 165 170 175
 Gly Ile Thr Ala Ala Met Leu Asn Tyr Ser Leu Ser Gly Ala Asn Ser
 180 185 190
 Arg Ala Arg Ser Gly Ala Gly Thr Arg Ser Asp Ser Gln Tyr Ala Asn
 195 200 205
 Leu Arg Pro Gly Ile Asn Val Gly Pro Trp Arg Leu Arg Asn Tyr Thr
 210 215 220
 Thr Trp Ser Arg Asp Ala Ser Gly Leu Asp Lys Trp Asp Asn Val Tyr
 225 230 235 240
 Thr Leu Met Gln Arg Ala Ile Ile Pro Leu Gln Ala Gln Leu Thr Leu
 245 250 255
 Gly Asp Ser Ser Ala Pro Ala Asp Val Phe Asp Ser Met Pro Phe Arg
 260 265 270
 Gly Val Gln Leu Ala Ser Asp Asp Asp Met Leu Pro Asp Ser Leu Lys
 275 280 285
 Gly Tyr Ala Pro Val Val Arg Gly Ile Ala Arg Thr Asn Ala Gln Val
 290 295 300
 Val Val Arg Gln Asn Gly Tyr Gln Ile Tyr Gln Ser Tyr Val Ala Pro
 305 310 315 320
 Gly Ala Phe Glu Ile Ala Asp Met Tyr Pro Thr Gly Gly Ala Gly Asp
 325 330 335
 Leu Asp Val Thr Ile Val Glu Ala Asp Gly Ser Glu Gln His Phe Thr
 340 345 350
 Leu Pro Tyr Ala Ser Leu Pro Val Leu Gln Arg Glu Gly Arg Leu Lys
 355 360 365
 Tyr Ala Leu Thr Ala Gly Gln Tyr Arg Ser Tyr Asn Arg Ser Val Glu
 370 375 380
 Lys Thr Pro Phe Gly Gln Leu Thr Gly Ile Tyr Gly Leu Pro His Gly
 385 390 395 400
 Ile Thr Leu Tyr Gly Gly Val Gln Gly Ala Asp Lys Tyr Gln Ser Ala
 405 410 415
 Ala Leu Gly Met Gly Lys Asn Met Gly Asp Leu Gly Ala Val Ser Ala
 420 425 430
 Asp Val Thr Leu Gly Trp Ser Thr Pro Glu His Thr Ala Lys Thr Asn
 435 440 445
 Gly Gln Ser Trp Arg Ala Arg Tyr Ser Lys Asn Phe Ile Thr Thr Gly
 450 455 460
 Thr Asn Phe Ser Ile Ala Gly Tyr Arg Tyr Ser Thr Arg Gly Tyr Tyr
 465 470 475 480
 Gly Met Gln Asp Val Leu Gly Ser Tyr Gly Asp Ser Ser Ala Leu Gln
 485 490 495
 Asp Arg Arg Arg Asn Arg Ala Glu Leu Thr Met Ser Gln Thr Leu Gly
 500 505 510
 Asp Asn Leu Gly Ala Leu Thr Leu Ser Ala Ala Arg Glu Asp Tyr Trp
 515 520 525
 Asn Asp Gly Lys Ser Met Ala Ser Trp Ser Val Gly Tyr Ser Asn Tyr
 530 535 540
 Trp His Asn Ile Ser Tyr Gly Leu Thr Trp Thr Tyr Ser Lys Asn Val
 545 550 555 560
 Arg Ser Ala Ser Glu Asn Arg Lys Ser Gln Lys Asn Ala Asp His Asn
 565 570 575
 Gln Leu Leu Ser Phe Asn Val Ser Ile Pro Leu Asp Lys Phe Leu Pro
 580 585 590
 Gln Thr Trp Ala Asn Tyr Gly Met Asn Ala Ser Ser Asn Asn Gly Thr
 595 600 605
 Thr His Asn Val Gly Leu Asn Gly Val Ala Leu Glu Asn Arg Ala Leu
 610 615 620
 Ser Trp Asn Val Gln Gln Gly Tyr Gly Thr Glu Gly Val Gly Asn Thr
 625 630 635 640
 Gly Asn Val Asn Ala Asp Tyr Lys Gly Thr Tyr Gly Glu Val Thr Ala

645 650 655
 Gly Tyr Gly Tyr Asp Lys Asn Ser Glu Arg Leu Asn Tyr Gly Leu Gln
 660 665 670
 Gly Gly Ile Leu Ala His Ala Asp Gly Ile Thr Leu Ser Gln Pro Leu
 675 680 685
 Gly Glu Thr Ser Val Leu Ile Lys Ala Pro Gly Ala Tyr Asp Val Asp
 690 695 700
 Ile Arg Asn Gln Pro Gly Val Arg Thr Asp Phe Arg Gly Tyr Thr Val
 705 710 715 720
 Val Ser Asn Leu Ser Val Tyr Arg Lys Asn Asp Leu Thr Leu Asp Pro
 725 730 735
 Glu Thr Met Pro Asp Asp Val Glu Leu Glu Ile Asn Thr Arg Thr Val
 740 745 750
 Thr Pro Thr Arg Gly Ala Val Val Arg Ala Asp Tyr Leu Pro Lys Ser
 755 760 765
 Gly Arg Arg Val Leu Met Thr Leu Thr Asp Asn Asp Arg Ala Val Pro
 770 775 780
 Phe Gly Ala Val Val Thr Leu Val Gly Asp Glu Ser Gly Ser Phe Ile
 785 790 795 800
 Val Gly Asp Arg Gly Gln Val Tyr Leu Thr Gly Met Arg Glu Gln Gly
 805 810 815
 Thr Leu Val Ala Thr Trp Gly Ser Gln Ser Ser Gln Gln Cys Arg Ala
 820 825 830
 Asp Phe Thr Leu Pro Asn His Ser Met Tyr Gly Gly Ile Ala Asp Met
 835 840 845
 Arg Ala Thr Cys Arg Gln Glu Arg
 850 855

<210> 7159

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 7159

Arg Cys Thr Ala Gly Asp Glu Gln Pro Thr Ile Phe Ala Thr Val Cys
 1 5 10 15
 Arg Gly Ala Arg Asp Val Ala Ile Asn Gly Pro Ile Leu Pro Asp Val
 20 25 30
 Asn Pro Arg Gly Val Arg Phe Ser Glu Cys Leu Arg His Pro Glu Phe
 35 40 45
 Asp Leu Pro Val Ala Gly Lys Lys Met Lys Ile Arg Cys Arg Thr Leu
 50 55 60
 Leu Leu Leu Ala Leu Leu Ser Gly Lys Val Cys Ser Ala Asp Ser Val
 65 70 75 80
 Asn Ile Gly Val Thr Gly Asn Ile Val Ala Ser Pro Cys Ile Phe Asn
 85 90 95
 Gly Gly Asn Asn Leu Asp Val Asn Leu Gly Asn Ile Gln Ala Thr
 100 105 110
 Asn Met Ala Thr Pro Gly Ser Thr Ser Asp Pro Val Pro Phe Ser Leu
 115 120 125
 Leu Phe Thr Gln Cys Pro Thr Gly Thr Gln Ser Val Thr Val Ala Phe
 130 135 140
 Thr Gly Ser Pro Asp Pro Glu Ala Gly Ala Asp Tyr Phe Met Asn Ser
 145 150 155 160
 Gly Ser Ala Thr His Val Ala Ile Ala Met Arg Asp Ala Gln Thr Gly
 165 170 175
 Ala Leu Lys Gly Thr Gly Ser Ser Met Thr Gln Thr Ile Ala Ala Asp
 180 185 190
 Arg Thr Ala Thr Leu Ala Met Leu Ala Ser Val Lys Ser Met Thr Gly
 195 200 205
 Gly Ala Thr Pro Gly Ser Ile Arg Ala Val Val Met Thr Met Gln

210
Tyr Asn
225

215

220

<210> 7160
<211> 428
<212> PRT
<213> Enterobacter cloacae

<400> 7160
Cys Ala Ile Thr Glu Phe Ser Pro Arg Val Phe Val Val Thr Pro Ser
1 5 10 15
Ile Phe Arg Ile Ser Met Leu Thr Thr Ile Ile Tyr Arg Ser His Ile
20 25 30
Cys Glu Asp Val Pro Val Lys Ala Leu Glu Asp Met Val Ala Ala Ala
35 40 45
Asn Cys Arg Asn Arg Gln Phe Asp Val Thr Gly Ile Leu Leu Phe Asn
50 55 60
Gly Thr His Phe Phe Gln Leu Leu Glu Gly Pro Ala Asp Asn Val Lys
65 70 75 80
Glu Ile Tyr Gln Leu Ile Cys Arg Asp Pro Arg His His Asn Val Val
85 90 95
Glu Leu Leu Ser Asp His Gly Pro Ser Arg Arg Phe Gly Asn Val Gly
100 105 110
Met Glu Leu Phe Asp Leu Arg Gln Tyr Asp Thr Asp Glu Val Leu Gln
115 120 125
Lys Val Leu Asp Lys Gly Thr Thr Arg Tyr Gln Leu Thr Tyr Asn Asp
130 135 140
Arg Ala Leu Gln Phe Phe Arg Thr Phe Val Glu Ala Thr Glu Lys Ala
145 150 155 160
Asn Tyr Phe Glu Leu Pro Pro Ala Asp Ala Trp Glu Phe Val Thr Glu
165 170 175
Asn Thr Pro Leu Ser Ser Gln Pro Thr Val Val Ala Lys Gly Ala Asp
180 185 190
Cys Ser Phe Ala Phe Gln Pro Ile Val Asp Pro Phe Met Gln Gln Val
195 200 205
Val Ser Trp Glu Ala Leu Ile Arg Thr Pro Ser Gly Glu Ser Pro Glu
210 215 220
Ser Tyr Phe Ala Asn Leu Ser Arg Glu Ala Leu Tyr Glu Ser Asp Leu
225 230 235 240
Lys Ser Lys Gln Val Ala Leu Ser Met Ala Ser Ala Leu Gly Leu Gln
245 250 255
Thr Gln Thr Leu Ser Ile Asn Leu Leu Pro Met Thr Leu Val Asn Val
260 265 270
Pro Gly Ala Val Asp Phe Leu Leu Thr Ala Ile Glu Ala Asn Gly Phe
275 280 285
Val Pro Glu Gln Ile Val Val Glu Phe Thr Glu Ser Glu Ala Ile Ser
290 295 300
Arg Phe Glu Glu Phe Thr Ser Ala Val Arg Gln Leu Lys Ser Ala Gly
305 310 315 320
Ile Ser Val Ala Ile Asp His Phe Gly Ala Gly Phe Ala Gly Leu Gln
325 330 335
Leu Leu Ala Gln Phe Gln Pro Asp Arg Ile Lys Ile Asn Arg Asp Leu
340 345 350
Ile Ala Asn Val His Lys Ser Gly Pro Arg Gln Ala Ile Ile Gln Ser
355 360 365
Ile Ile Lys Cys Cys Ala Ser Leu Glu Ile Leu Phe Cys Ala Val Gly
370 375 380
Val Glu Leu Ala Glu Glu Trp Met Trp Leu Glu Ser Ala Gly Ile Ser
385 390 395 400
Gln Phe Gln Gly His Leu Phe Ala Ser Pro Arg Leu Gly Gly Ile Pro

Ala Ile Ala Trp Pro Glu Lys Lys Tyr Asp Leu
 405 410 415
 420 425

<210> 7161
 <211> 284
 <212> PRT
 <213> Enterobacter cloacae

<400> 7161
 Arg Val Ser Gly Ser Leu Ser His Ser Leu Val Ser Glu Arg Gly Val
 1 5 10 15
 Ser Tyr Thr Asn Asp Leu Tyr Asn Leu Ile Arg Leu Val Trp Leu Gly
 20 25 30
 Met Glu Val Leu Cys Val Arg Glu Leu Met Ala Tyr Tyr Ser Ile Gly
 35 40 45
 Glu Val Ala Glu Arg Cys Gly Ile Asn Pro Val Thr Leu Arg Ala Trp
 50 55 60
 Gln Arg Arg Tyr Gly Leu Leu Lys Pro Gln Arg Ser Glu Gly Gly His
 65 70 75 80
 Arg Gln Phe Asp Asp Glu Asp Ile Leu Arg Ile Glu Glu Ile Lys Arg
 85 90 95
 Leu Met Lys Thr Gly Val Ser Val Gly Lys Val Lys Ala Leu Leu Glu
 100 105 110
 Asn Thr Glu Val Met Thr Gln Gly Asn Trp Ala Ser Phe Gln Glu Glu
 115 120 125
 Met Leu Thr Val Leu Arg Tyr Ala Ser Pro Ala Lys Leu Arg Ala Lys
 130 135 140
 Ile Gly Glu Phe Arg Arg Asp His Ala Met Asp Val Leu Ile Asp Asn
 145 150 155 160
 Ile Ile Thr Pro Val Arg Gln Arg Met Asn Gln Asp Gln Asn Thr Val
 165 170 175
 Arg His Met Ala Ser Leu Leu Asp Gly Val Leu Ile Glu Phe Ala Val
 180 185 190
 Ala Ser Leu Gly Glu Ser Arg Lys Lys Ala Gly Lys Asp Ala Leu Leu
 195 200 205
 Ile Gly Trp Glu Cys Asp Asp Arg Thr His Leu Trp Leu Glu Ala Ala
 210 215 220
 Arg Leu Ala Tyr Lys Gly Trp His Ile Asp Val Leu Ala Glu Pro Ile
 225 230 235 240
 Asp Ser Pro Arg Pro Glu Leu Ile Pro Gly Gln Lys Ile Phe Val Trp
 245 250 255
 Thr Gly Lys Ala Pro Thr Pro Arg Gln Gln Glu Gln Leu Asp His Trp
 260 265 270
 Arg Glu Gln Gly Phe Ala Val Ser Ile His His
 275 280

<210> 7162
 <211> 126
 <212> PRT
 <213> Enterobacter cloacae

<400> 7162
 Gly Gly Pro Met Glu Leu His Ser Glu Thr Phe Asn Pro Ala Asp Phe
 1 5 10 15
 Ala Trp Arg Gly Leu Thr Leu Thr Pro Ala Ala Ala His Ile His
 20 25 30
 Glu Leu Val Ala Lys Asn Pro Asp Ile Leu Gly Val Arg Leu Gly Val
 35 40 45
 Lys Gln Thr Gly Cys Ala Gly Phe Gly Tyr Val Leu Asp Thr Val Thr
 50 55 60

Glu Pro Glu Lys Asp Asp Leu Val Phe Glu Thr Asp Gly Ala Lys Leu
 65 70 75 80
 Tyr Val Ala Leu Gln Ala Met Pro Phe Ile Asp Gly Thr Glu Val Asp
 85 90 95
 Tyr Val Arg Glu Gly Leu Asn Gln Leu Phe Lys Phe His Asn Pro Lys
 100 105 110
 Ala Gln Asn Glu Cys Gly Cys Gly Glu Ser Phe Gly Val
 115 120 125

<210> 7163

<211> 439

<212> PRT

<213> Enterobacter cloacae

<400> 7163

Asn Pro Val Thr Leu Arg Trp Leu Asn Asn Trp Arg Ser Arg Val Met
 1 5 10 15
 Ala Gly Leu Pro Asn Ser Ser Asn Ala Leu Gln Gln Trp His Arg Leu
 20 25 30
 Phe Glu Ala Gln Ala Gly Ala Arg Ser Glu Gln Ala Gln His His Leu
 35 40 45
 Gln Gln Met Leu Arg Leu Gly Leu Pro Thr Arg Lys His Glu Asn Trp
 50 55 60
 Lys Tyr Thr Pro Leu Asp Gly Leu Leu Asn Gly Glu Phe Val Thr Arg
 65 70 75 80
 Leu Ala Gln Val Ser Pro Gly Gln Arg Asp Val Leu Ala Leu Ser Val
 85 90 95
 Asp Ala Val Arg Leu Val Phe Val Asp Gly Gln Phe Arg Glu Glu Leu
 100 105 110
 Ser Asp Ser Val Gln Glu Ser Gly Phe Asp Ile Val Ile Asn Asp Glu
 115 120 125
 Arg Gln Ser Leu Asn Ala Pro Val Gln Pro Glu Val Phe Leu His Leu
 130 135 140
 Thr Glu Ser Leu Ser Gln Ser Val Thr His Ile Arg Val Lys Arg Asn
 145 150 155 160
 Gln Arg Pro Ala Lys Pro Leu Leu Leu Met His Ile Thr Gln Gly Val
 165 170 175
 Ala Gly Asp Glu Ile Asn Thr Ala His Tyr Arg His His Leu Glu Leu
 180 185 190
 Ala Glu Gly Ala Glu Ala Thr Val Ile Glu His Tyr Val Ser Leu Asn
 195 200 205
 Asp Thr Arg His Phe Thr Gly Ser Arg Leu Thr Met Asn Val Ala Ala
 210 215 220
 Asn Ala Gln Leu His His Ile Lys Leu Ala Phe Glu Asn Pro Leu Ser
 225 230 235 240
 His His Phe Ala His Asn Asp Ile Leu Leu Gly Gln Asp Ala Ala Ala
 245 250 255
 Tyr Ser His Ser Phe Leu Leu Gly Gly Ala Val Leu Arg His Asn Thr
 260 265 270
 Ser Thr Gln Leu Asn Gly Glu Asn Thr Thr Leu Arg Ile Asn Ser Leu
 275 280 285
 Ala Met Pro Val Lys Ser Glu Val Cys Asp Thr Arg Thr Trp Leu Glu
 290 295 300
 His Asn Lys Gly Tyr Cys Asn Ser Arg Gln Leu His Lys Thr Ile Val
 305 310 315 320
 Ser Asp Lys Gly Arg Ala Val Phe Asn Gly Leu Ile Asn Val Ala Gln
 325 330 335
 His Ala Ile Lys Thr Asp Gly Gln Met Thr Asn Asn Asn Leu Leu Leu
 340 345 350
 Gly Arg Leu Ala Glu Val Asp Thr Lys Pro Gln Leu Glu Ile Tyr Ala
 355 360 365

Asp Asp Val Lys Cys Ser His Gly Ala Thr Val Gly Arg Ile Asp Asp
 370 375 380
 Glu Gln Met Phe Tyr Leu Arg Ser Arg Gly Ile Asp Gln Gln Ala Ala
 385 390 395 400
 Gln Lys Met Ile Ile Tyr Ala Phe Ala Ala Glu Leu Thr Glu Ala Leu
 405 410 415
 Pro Asp Gly Gly Leu Lys Gln Gln Val Leu Ala Arg Ile Gly Gln Arg
 420 425 430
 Leu Pro Gly Gly Glu Ala
 435

<210> 7164

<211> 355

<212> PRT

<213> *Enterobacter cloacae*

<400> 7164

Ser Pro His Gly Glu Val Asn Pro Ala Ser Asn Ala Ala Leu Ile Ser
 1 5 10 15
 Arg Cys Arg Ile Thr Gln Cys Thr Val Gly Ser Leu Ile Cys Ala Pro
 20 25 30
 Pro Ala Val Arg Asn Ala Asn Met Lys Cys Leu Asn Ser Met Leu Leu
 35 40 45
 Leu Cys Leu Leu Ala Ala Gly Ser Ile Ala Arg Ala Gly Thr Cys Thr
 50 55 60
 Thr Ile Ile Pro Gln Leu Ser Thr Leu Ser Val Gly Thr Ile Asn Val
 65 70 75 80
 Gln Arg Asp Ala Pro Val Gly Thr Val Val Phe Ser Gly Ala Ala Ser
 85 90 95
 Ala Thr Gly Ser Tyr Leu Thr Gly Cys Thr Asn Pro Leu Met Leu Gly
 100 105 110
 Phe Ser Met Arg Tyr Asn Ser Ala Thr Leu Ser Ser Tyr Gly Asn His
 115 120 125
 Val Tyr Asn Thr Asn Val Ile Gly Ile Arg Phe Ser Ser Asn
 130 135 140
 Gly Tyr Phe Glu Asn Pro Ser Asn Thr Phe Ser Tyr Asn Ala Gln Thr
 145 150 155 160
 Ser Tyr Val Asp Trp Tyr Gly Gly Arg Ile Glu Leu Val Val Thr Gly
 165 170 175
 Pro Val Ser Ser Gly Ala Leu Thr Pro Gly Val Ile Gly Val Val Thr
 180 185 190
 Leu Gln Gly Ser Asp Gly Leu Tyr Arg Asp Gly Leu Thr Thr Gln Leu
 195 200 205
 Thr Ser Gly Asn Ile Asn Ala Leu Ala Cys Thr Val Asn Thr Ala Gln
 210 215 220
 Leu Thr Phe Pro Ile Gly Asp Ile Pro Ala Ser Ala Phe Gly Thr Val
 225 230 235 240
 Val Gly Thr Thr Pro Ala Gly Ala Gln Asn Thr Gln Asn Leu Gly Leu
 245 250 255
 Thr Cys Ala Ala Gly Thr Asn Ile Thr Val Ser Leu Ser Gly Ile Gln
 260 265 270
 Asn Pro Asp Ser Ala Asn Thr Ser Val Met Ala Leu Thr Gly Gln Gly
 275 280 285
 Asn Ala Gly Thr Ala Lys Gly Val Gly Val Gln Leu Ile Tyr Asn Gly
 290 295 300
 Ala Pro Leu Ala Met Asn Ser Arg Leu Phe Leu Arg Gln Ser Ala Gly
 305 310 315 320
 Gly Gln Glu Thr Leu Pro Leu Thr Ala Arg Tyr Tyr Gln Thr Leu Thr
 325 330 335
 Arg Val Glu Ser Gly Ser Ala Asn Ala Ser Ala Thr Leu Asn Leu Thr
 340 345 350

Tyr Gln
355

<210> 7165

<211> 178

<212> PRT

<213> *Enterobacter cloacae*

<400> 7165

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Gly Thr Gly His Val Pro Arg Ile Ala Gly Asp Val Gln His Asn Gly
1      5      10      15
Arg Gly Arg Gln Thr Gly Gly Gly Ile Lys Thr Tyr Ser Ser Ala Ala
20      25      30
Trp Leu Thr Glu Arg Arg Glu Met Ala Asp Leu Pro Asp Arg Asp Lys
35      40      45
Leu Leu Arg Asn Phe Gly Arg Cys Ala Asn Trp Glu Glu Lys Tyr Leu
50      55      60
Tyr Ile Ile Glu Leu Gly Gln Arg Leu Pro Pro Leu Ser Glu Glu Ala
65      70      75      80
His Asn Pro Asp Asn Ile Ile Gln Gly Cys Gln Ser Gln Val Trp Ile
85      90      95
Gln Met Gln Gln Thr Asp Asp Val Val Ile Asp Leu Gln Gly Asp Ser
100     105     110
Asp Ala Ala Ile Val Lys Gly Leu Ile Ala Val Val Phe Ile Leu Tyr
115     120     125
His Gln Met Ser Ala Gln Asp Ile Val Ala Phe Asp Val Arg Pro Trp
130     135     140
Phe Glu Lys Met Ala Leu Thr Gln His Leu Thr Pro Ser Arg Ser Gln
145     150     155     160
Gly Leu Glu Ala Met Ile Arg Ala Ile Arg Ala Lys Ala Ala Ile Leu
165     170     175
Ser

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<210> 7166

<211> 282

<212> PRT

<213> *Enterobacter cloacae*

<400> 7166

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Pro Glu Ser Pro Glu Arg Met Arg Leu Arg Arg Lys Leu Trp Gly Ile
1      5      10      15
Gly Gly Thr Met Ser Arg Asn Thr Glu Ala Thr Ser Asp Val Asn Thr
20      25      30
Trp Ser Gly Gly His Leu Asn Tyr Lys Glu Gly Phe Phe Thr Gln Leu
35      40      45
Gln Thr Asp Glu Leu Ala Lys Gly Ile Asn Glu Glu Val Val Arg Ala
50      55      60
Ile Ser Ala Lys Arg Asn Glu Pro Glu Trp Met Leu Glu Phe Arg Leu
65      70      75      80
Ser Ala Phe Arg Ala Trp Leu Glu Met Glu Glu Pro His Trp Leu Lys
85      90      95
Ala His Tyr Asp Lys Leu Asn Tyr Gln Asp Tyr Ser Tyr Tyr Ser Ala
100     105     110
Pro Ser Cys Gly Ser Cys Asp Asp Thr Cys Ala Ser Gln Pro Gly Ala
115     120     125
Val Gln Gln Thr Gly Ala Glu Asn Ser Phe Leu Ser Lys Glu Val Glu
130     135     140
Glu Ala Phe Asn Gln Leu Gly Val Pro Val Arg Glu Gly Lys Glu Val
145     150     155     160
Ala Val Asp Ala Ile Phe Asp Ser Val Ser Val Ala Thr Thr Tyr Arg

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165 170 175
 Glu Lys Leu Ala Glu Gln Gly Ile Ile Phe Cys Ser Phe Gly Glu Ala
 180 185 190
 Ile His Asp His Pro Glu Leu Val Lys Lys Tyr Ile Gly Thr Val Val
 195 200 205
 Pro Ser Asn Asp Asn Phe Phe Ala Ala Leu Asn Ala Ala Val Ala Ser
 210 215 220
 Asp Gly Thr Phe Ile Tyr Val Pro Lys Gly Val Arg Cys Pro Met Glu
 225 230 235 240
 Leu Ser Thr Tyr Phe Arg Ile Asn Ala Glu Lys Thr Gly Gln Phe Glu
 245 250 255
 Arg His Ile Leu Val Ala Asp Glu Ser Ser Tyr Val Ser Tyr Ile Glu
 260 265 270
 Gly Cys Ser Ala Pro Val Arg Asp Ser
 275 280

<210> 7167

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 7167

Gln Leu Gln Pro Gly Val Val Glu Val Ile Ile His Lys Asp Ala Glu
 1 5 10 15
 Val Lys Tyr Phe Thr Val Gln Asn Cys Ser Pro Gly Asp Val Asn Thr
 20 25 30
 Gly Gly Ile Leu Asn Phe Val Thr Lys Arg Ala Leu Cys Glu Gly Glu
 35 40 45
 Asn Ser Lys Met Ser Trp Thr Gln Ser Glu Thr Gly Ser Ala Ile Thr
 50 55 60
 Trp Lys Tyr Pro Ser Cys Ile Leu Arg Gly Asp Asn Ser Ile Gly Glu
 65 70 75 80
 Phe Tyr Ser Val Ala Leu Thr Ser Gly His Gln Gln Ala Asp Thr Gly
 85 90 95
 Thr Lys Met Ile His Ile Gly Lys Asn Thr Lys Ser Thr Ile Ile Ser
 100 105 110
 Lys Gly Ile Ser Ala Gly His Ser Gln Asn Ser Tyr Arg Gly Leu Val
 115 120 125
 Lys Ile Met Pro Thr Ala Thr Asn Ala Arg Asn Phe Thr Gln Cys Asp
 130 135 140
 Ser Met Leu Ile Gly Ala Asp Cys Gly Ala His Thr Phe Pro Tyr Val
 145 150 155 160
 Glu Cys Arg Asn Asn Ser Ala Gln Leu Glu His Glu Ala Thr Thr Ser
 165 170 175
 Arg Ile Gly Glu Asp Gln Leu Phe Tyr Cys Leu Gln Arg Gly Ile Ser
 180 185 190
 Glu Glu Asp Ala Ile Ser Met Ile Val Asn Gly Phe Cys Lys Asp Val
 195 200 205
 Phe Ser Glu Leu Pro Leu Glu Phe Ala Val Glu Ala Gln Lys Leu Leu
 210 215 220
 Ala Ile Ser Leu Glu His Ser Val Gly
 225 230

<210> 7168

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 7168

Gly Lys His Met Leu Ser Ile Lys Asp Leu Gln Val Ser Val Glu Glu
 1 5 10 15

Lys Glu Ile Leu Arg Gly Leu Asn Phe Asp Val Lys Pro Gly Glu Val
 20 25 30
 His Ala Ile Met Gly Pro Asn Gly Ser Gly Lys Ser Thr Leu Ser Ala
 35 40 45
 Thr Leu Ala Gly Arg Glu Asp Tyr Glu Val Thr Ser Gly Ser Val Glu
 50 55 60
 Phe Asn Gly Lys Asp Leu Leu Glu Met Ser Pro Glu Glu Arg Ala Gly
 65 70 75 80
 Glu Gly Ile Phe Met Ala Phe Gln Tyr Pro Val Glu Ile Pro Gly Val
 85 90 95
 Ser Asn Gln Phe Phe Leu Gln Thr Ala Leu Asn Ala Val Arg Lys Tyr
 100 105 110
 Arg Gly Leu Glu Ala Leu Asp Arg Phe Asp Phe Gln Asp Leu Met Glu
 115 120 125
 Glu Lys Ile Lys Leu Leu Lys Met Pro Glu Asp Leu Leu Thr Arg Ser
 130 135 140
 Val Asn Val Gly Phe Ser Gly Gly Glu Lys Lys Arg Asn Asp Ile Leu
 145 150 155 160
 Gln Met Ala Val Leu Glu Pro Ala Leu Cys Ile Leu Asp Glu Thr Asp
 165 170 175
 Ser Gly Leu Asp Ile Asp Ala Leu Lys Ile Val Ala Asp Gly Val Asn
 180 185 190
 Ser Leu Arg Asp Gly Asn Arg Ser Phe Ile Ile Val Thr His Tyr Gln
 195 200 205
 Arg Ile Leu Asp Tyr Ile Lys Pro Asp Tyr Val His Val Leu Tyr Gln
 210 215 220
 Gly Arg Ile Val Lys Ser Gly Asp Phe Thr Leu Val Lys Gln Leu Glu
 225 230 235 240
 Glu Gln Gly Tyr Gly Trp Leu Thr Glu Gln Gln
 245 250

<210> 7169

<211> 423

<212> PRT

<213> *Enterobacter cloacae*

<400> 7169

Thr Ala Gly Ala Gly Pro Tyr Arg Ser Ala Thr Ala Trp Arg Arg Ser
 5 10 15
 Met Thr Phe Pro Val Glu Lys Val Arg Ala Asp Phe Pro Val Leu Thr
 20 25 30
 Arg Glu Val Asn Gly Leu Pro Leu Ala Tyr Leu Asp Ser Ala Ala Ser
 35 40 45
 Ala Gln Lys Pro Asn Gln Val Val Asp Ala Glu Ala Glu Phe Tyr Arg
 50 55 60
 His Gly Tyr Ala Ala Val His Arg Gly Ile His Thr Leu Ser Ala Glu
 65 70 75 80
 Ala Thr Gln Arg Met Glu Asn Val Arg Thr Gln Val Ala Ala Phe Leu
 85 90 95
 Asn Ala Arg Ser Pro Glu Glu Leu Val Phe Val Arg Gly Thr Thr Glu
 100 105 110
 Gly Ile Asn Leu Val Ala Asn Ser Trp Gly Asn Ala Gln Val His Ala
 115 120 125
 Gly Asp Asn Ile Ile Ile Thr Gln Met Glu His His Ala Asn Ile Val
 130 135 140
 Pro Trp Gln Met Leu Cys Glu Arg Val Gly Ala Gln Leu Arg Val Ile
 145 150 155 160
 Pro Leu Asn Glu Asp Gly Thr Leu Gln Leu Glu Lys Leu Asp Ala Leu
 165 170 175
 Leu Asp Asp Arg Thr Arg Leu Val Ala Val Thr His Val Ser Asn Val
 180 185 190

Leu Gly Thr Glu Asn Pro Val Ala Leu Ile Val Asp Lys Ala His Gln
 195 200 205
 Ala Gly Ala Lys Val Leu Ile Asp Gly Ala Gln Ala Val Met His His
 210 215 220
 Ala Val Asp Val Gln Ala Leu Asp Cys Asp Phe Tyr Val Phe Ser Gly
 225 230 235 240
 His Lys Leu Tyr Gly Pro Thr Gly Ile Gly Val Leu Tyr Val Lys Glu
 245 250 255
 Asp Ile Leu Gln Ala Met Pro Pro Trp Glu Gly Gly Ser Met Ile
 260 265 270
 Ala Thr Val Ser Leu Thr Glu Gly Thr Thr Tyr Ala Arg Ala Pro Trp
 275 280 285
 Arg Phe Glu Ala Gly Thr Pro Asn Thr Gly Gly Ile Ile Gly Leu Gly
 290 295 300
 Ala Ala Ile Ser Tyr Val Ser Glu Thr Gly Leu Ala Ala Ile Gln Glu
 305 310 315 320
 Tyr Glu Gln Leu Leu Met His Tyr Ala Leu Gln Glu Leu Ala Ser Val
 325 330 335
 Pro Glu Leu Thr Leu Tyr Gly Pro Ala Asp Arg Leu Gly Val Ile Ala
 340 345 350
 Phe Asn Leu Gly Lys His His Ala Tyr Asp Val Gly Ser Phe Leu Asp
 355 360 365
 Asn Tyr Gly Val Ala Val Arg Thr Gly His His Cys Ala Met Pro Leu
 370 375 380
 Met Ala Tyr Tyr Glu Val Pro Ala Met Cys Arg Ala Ser Leu Val Met
 385 390 395 400
 Tyr Asn Thr Thr Glu Glu Val Asp Arg Leu Val Ala Gly Leu Lys Arg
 405 410 415
 Ile His Gln Leu Leu Gly
 420

<210> 7170

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7170

Ile Arg Asn Leu Ser Met Lys Arg Ala Ser Leu Ile Thr Leu Leu Leu
 1 5 10 15
 Leu Gly Ser Leu Ser Ala Val Asn Ser Ala Arg Ala Val Asp Tyr Pro
 20 25 30
 Leu Pro Pro Ala Gly Ser Arg Leu Ile Gly Gln Asn Gln Thr Tyr Thr
 35 40 45
 Ile Gln Glu Gly Asp Asn Lys Leu Gln Ser Ile Ala Arg Arg Phe Asn
 50 55 60
 Thr Ala Ala Gln Leu Ile Leu Glu Thr Asn Asn Thr Ile Ala Pro Val
 65 70 75 80
 Asn Pro Ala Pro Gly Thr Val Ile Thr Ile Pro Ser Gln Met Leu Leu
 85 90 95
 Pro Asp Thr Glu Arg Glu Gly Ile Val Val Asn Leu Ala Glu Leu Arg
 100 105 110
 Leu Tyr Phe Tyr Pro Pro Gly Glu Asn Ile Val Gln Val Tyr Pro Leu
 115 120 125
 Gly Ile Gly Gln Leu Gly Leu Glu Thr Pro Val Ser Thr Thr Arg Val
 130 135 140
 Ser Gln Lys Ile Pro Asn His Thr Trp Thr Pro Thr Ala Gly Ile Arg
 145 150 155 160
 Ala Arg Ser Leu Ala Gln Gly Ile Lys Leu Pro His Val Val Pro Ala
 165 170 175
 Gly Pro Asn Asn Pro Leu Gly Arg Phe Ala Leu Arg Leu Gly Ile Gly
 180 185 190

Asn Gly Glu Tyr Ser Ala Asp Gly Pro Lys
195 200

<210> 7171

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 7171

Glu Glu Gly Ser Met Ala Asn Asp Trp Leu Glu Leu Arg Gln His Ala
1 5 10 15
Glu Thr Gly Ile Glu Thr Ile Lys Ala His Phe Glu Gly His Ala Phe
20 25 30
Asp Pro His Trp His Asp Ser Tyr Leu Val Gly Ile Thr Leu Ser Gly
35 40 45
Thr Gln Gln Phe His Cys Arg Arg Glu Arg His Arg Ser Gln Pro Gly
50 55 60
Asp Ala Phe Leu Leu Glu Pro Gly Glu Ile His Asp Gly Asp Ala Pro
65 70 75 80
Val Glu Gly Gly Phe Thr Tyr Leu Thr Phe Tyr Leu Asp Glu His Trp
85 90 95
Leu Thr His Thr Leu Gln Gly Leu Tyr Asp Ser Thr Pro Gly Ser Tyr
100 105 110
Thr Leu His Phe Ala Gln Thr Leu Thr Arg Glu Pro Gln Leu Val Arg
115 120 125
Ala Ile Gly Asp Thr Phe Ala Ser Leu His Asn Asp Glu Met Lys Ile
130 135 140
Val Gln Gln Ser Thr Met Asp Asn Leu Leu Ser Gln Ile Thr Thr His
145 150 155 160
Cys His Trp Arg 165

<210> 7172

<211> 330

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (31)

<220>

<221> UNSURE

<222> (42)

<400> 7172

Lys Leu Thr Ser Gln Leu Gln Ser Ser Ala Val Ala His Arg Ala Arg
1 5 10 15
Asp Tyr Leu Tyr Ala His Ile Gly Glu Asn Val Gly Leu Ser Xaa Leu
20 25 30
Ala Arg Glu Thr Gly Thr Asp Arg Phe Xaa Leu Thr Arg Cys Phe Lys
35 40 45
Arg Glu Phe Thr Trp Ala Arg Thr Pro Gly Leu Ser Ser Cys Asp Trp
50 55 60
Gln Arg Pro Asp Arg Cys Trp Arg Val Gly Asn Cys Leu Leu Met Leu
65 70 75 80
Arg Arg Gln Trp Val Leu Pro Ile Lys Ala Ile Leu Val Ala Gly Ser
85 90 95
Ser Val His Thr Val Phe Leu Arg His Thr Thr Ala Gly Cys Ala Gln
100 105 110
Thr Phe Gln Thr Phe Pro Glu Asn Asn Gly Thr Phe Val Ala Leu Ile

115 120 125
 Lys Lys Glu Ser Pro Val Asn Leu Leu Pro Phe Leu Leu Phe Ala Phe
 130 135 140
 Val Ala Ser Ile Thr Pro Gly Pro Thr Asn Ile Leu Val Leu Ala Asn
 145 150 155 160
 Ser Gln His Phe Gly Val Lys Asn Thr Val Pro Ala Ile Leu Gly Gly
 165 170 175
 Cys Ile Ala Ala Ser Ala Ile Val Leu Val Ser Gly Ala Gly Ala Gly
 180 185 190
 Glu Val Leu Arg Gln Tyr Pro Leu Ile Arg Gln Val Met Ser Trp Ala
 195 200 205
 Gly Val Leu Trp Leu Ser Trp Met Ser Trp Gln Leu Phe Ser Ala Pro
 210 215 220
 Ala Ala Asn Leu Ser Ser Ser Ser His Val Arg Phe Thr Ala Arg Ala
 225 230 235 240
 Ala Ala Leu Leu Gln Val Val Asn Pro Lys Thr Trp Met Met Ala Leu
 245 250 255
 Ala Val Val Ser Leu Phe Ala Pro Ala Ser Asp His Ala Leu Arg Asp
 260 265 270
 Ile Thr Leu Met Ala Leu Trp Phe Leu Ala Ile Ser Val Val Cys Leu
 275 280 285
 Leu Cys Trp Ala Trp Leu Gly Lys Ala Val Asn Arg Ile Phe Arg Thr
 290 295 300
 Thr Val Ala Met Val Arg Phe Gln Arg Ala Met Ala Leu Cys Leu Phe
 305 310 315 320
 Ile Ser Ala Trp Met Gly Met Leu Ala
 325 330

<210> 7173

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7173

Gly Ser Phe Asn Gln Val Phe Arg Arg His Asn Arg Gln Val Gly His
 1 5 10 15
 Phe Ser Gln Leu Leu Tyr Arg Gln Leu Leu Ile Ala Ile Trp Arg Val
 20 25 30
 Gln Ala Cys Thr Asp Gly Gly Cys Ala Gln Val His Phe Gln Gln Gln
 35 40 45
 Phe Gly Arg Thr Gln Gln Val Phe Arg Leu Phe Val Gln Gln His Val
 50 55 60
 Lys Arg Val Glu Phe Leu Ser Glu Gly His Trp His Arg Val Leu Gln
 65 70 75 80
 Leu Gly Thr Ala His Phe Gln Asn Val Leu Glu Leu Asn Gly Phe Thr
 85 90 95
 Leu Glu Ala Ile Ala Gln Leu Ile Asn Arg Val Asp Gln Phe Asn Asp
 100 105 110
 Arg Gly Ile His Arg Asp Ala Glu Ala Gly Trp Val Gly Val Val Gly
 115 120 125
 Gly Leu Thr Phe Val Asn Val Val Val Arg Val Gln Val Leu Val Phe
 130 135 140
 Thr Phe Leu Met Thr His Gln Leu Gln Ala Asp Val Cys Gln His Phe
 145 150 155 160
 Val Gly Val His Val Asp Arg Gly Ala Arg Ala Ala Leu Ile Asp Val
 165 170 175
 Asp Arg Glu Leu Ile His Ala Phe Ala Val Val Gln His Leu Ile Ala
 180 185 190
 Arg Gly Asp Asn Arg Ile Cys Ser Ala Phe Arg Asn Gly Leu Gln Leu
 195 200 205
 Phe Val Cys Gln Ser Arg Gly Phe Phe Tyr His His His Ala Thr His

210 215 220
 Lys Phe Arg Asp Val Ala Asp Phe Ala Val Ala Asp Val Glu Val Phe
 225 230 235 240
 Asn Arg Ser Gln Ser Val Asn Thr Ile Val Gly Ile Arg Trp Asn Phe
 245 250 255
 Pro Gly Thr Gln Gln Ile Phe Phe Asp Thr Asn Val Val
 260 265 270

<210> 7174

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7174

Lys Arg Ser Gly Ala Lys Thr Arg Tyr Pro Lys Gly Tyr Tyr Gln Asn
 1 5 10 15
 Ser Phe Lys Met Ser Glu Glu Cys Gln Arg Asn Leu Ala Arg Arg Asn
 20 25 30
 Ala Gln His Phe Ser Phe Gly His Leu Phe Ser Ile Arg Phe Thr Arg
 35 40 45
 Gly Gln Leu Leu Ser Ser Leu Leu Lys Thr Arg Asn Asn Met Arg Ile
 50 55 60
 Lys Val Cys Ala Gly Ile Val Gly Ala Ala Leu Leu Leu Ala Gly Cys
 65 70 75 80
 Ser Thr Ser Asn Glu Leu Thr Ala Ala Gly Gln Ser Val Arg Phe Val
 85 90 95
 Glu Asp Lys Pro Gly Ser Glu Cys Gln Leu Leu Gly Thr Ala Thr Gly
 100 105 110
 Glu Gln Ser Asn Trp Met Ser Gly Gln His Gly Glu Glu Gly Gly Ser
 115 120 125
 Met Arg Gly Ala Ala Asn Ala Leu Arg Asn Gln Ala Ala Ala Met Gly
 130 135 140
 Gly Asn Val Ile Tyr Gly Val Ser Ser Pro Thr Gln Gly Met Leu Ser
 145 150 155 160
 Ser Phe Val Pro Thr Ala Ser Gln Met Asn Gly Gln Val Tyr Lys Cys
 165 170 175
 Pro Asn

<210> 7175

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 7175

Glu Val Ser Val Cys Phe Asn Asn Gly Ser Ser Gly Leu Pro Phe Ser
 1 5 10 15
 Ile Arg Ala Thr Asn Ala Arg Gly Thr Arg Arg Ala Lys Arg Arg Phe
 20 25 30
 Ala Ser Arg Pro Ala Arg Asn Ala Ser Cys Cys Ser Arg Ser Lys Arg
 35 40 45
 Arg Ser Asn Ser Ser Gly Leu Val Ile Thr Ser Ala Ser Cys Asp Asn
 50 55 60
 Gln Ser Ser Leu Asp Gly Val Phe Arg Val Thr Ile Cys Ala Ile Leu
 65 70 75 80
 Trp Leu Ser Tyr Gln Leu Thr Asn Leu Glu Gly Leu Met Ala Thr Tyr
 85 90 95
 Tyr Ser Asn Asp Phe Arg Ala Gly Leu Lys Ile Met Met Asp Gly Glu
 100 105 110
 Pro Tyr Ala Val Glu Ala Ser Glu Phe Val Lys Pro Gly Lys Gly Gln
 115 120 125

Ala Phe Ala Arg Val Lys Leu Arg Arg Leu Leu Thr Gly Thr Arg Val
 130 135 140
 Glu Lys Thr Phe Lys Ser Thr Asp Ser Ala Glu Gly Ala Asp Val Val
 145 150 155 160
 Asp Met Asn Leu Thr Tyr Leu Tyr Asn Asp Gly Glu Phe Trp His Phe
 165 170 175
 Met Asn Asn Glu Thr Phe Glu Gln Leu Ser Ala Asp Ala Lys Ala Ile
 180 185 190
 Gly Asp Asn Ala Lys Trp Leu Leu Asp Gln Ala Glu Cys Ile Val Thr
 195 200 205
 Leu Trp Asn Gly Gln Pro Ile Ala Val Thr Pro Pro Asn Phe Val Glu
 210 215 220
 Leu Glu Ile Val Glu Thr Asp Pro Gly Leu Lys Gly Asp Thr Ala Gly
 225 230 235 240
 Thr Gly Gly Lys Pro Ala Thr Leu Ser Thr Gly Ala Val Val Lys Val
 245 250 255
 Pro Leu Phe Val Gln Ile Gly Glu Val Ile Lys Val Asp Thr Arg Ser
 260 265 270
 Gly Glu Tyr Val Ser Arg Val Lys
 275 280

<210> 7176

<211> 407

<212> PRT

<213> *Enterobacter cloacae*

<400> 7176

Ala Gly Val Ile His Leu Asn Cys Gly Gln Gln Gly Trp Val Gly Trp
 1 5 10 15
 Gln His Glu Gln Gly Gly Asn Arg Cys Lys Arg Gly Asn Arg Arg Gln
 20 25 30
 Arg Arg His Ala Gln His Gln Cys Arg Arg His Gln Arg Phe Gly Gly
 35 40 45
 Arg Ser Leu Gly Val Gln Gln Arg Arg Gly Lys Glu Gln His Tyr Cys
 50 55 60
 Gln Gln Pro Arg Ile Val Val Gln Gln Val Ala Cys Asn Gly Leu Asp
 65 70 75 80
 Ile Ala Asp Val Arg Phe His Lys Gly Ile Thr Glu Pro Arg His Ala
 85 90 95
 Gln His Ala His Ala Gly Ala His Thr Gly Phe Glu Gly Ala Gly Val
 100 105 110
 Gln His Phe Ala Gly Val Asp Phe Thr Gly Asp Ala Asp Gln Arg Arg
 115 120 125
 Asp Gly Gln His Lys His Asn Gly Phe Val Thr Arg Gln Asn Arg
 130 135 140
 Val Leu Asp Gln Thr Tyr Arg Val Ala Asp Gly Gly Arg Val Glu His
 145 150 155 160
 His Gly Asp Asp Thr Asn Gln Lys Gln Gln His Gly Ala Phe Cys Met
 165 170 175
 Arg Leu Gln Leu Glu Asp Leu Ala Thr Ala Gln Ala His Phe Thr Phe
 180 185 190
 Cys Gln Thr Leu Leu Val Asn Arg Ile Val Phe Gln Leu Gly Thr Glu
 195 200 205
 Glu Val Thr Gln His Gly Ser Asp His Tyr Arg Asn Gln Arg Asp Arg
 210 215 220
 Asn Thr Asp Cys Gln Gln Arg Gln Val Thr Tyr Ala His Trp Leu Lys
 225 230 235 240
 Asp Ala Arg Glu Glu Asp His Arg Arg Gly Asn Arg Arg Gly Gly Asn
 245 250 255
 Arg Asn Leu Gly Gly Asp His Gly Asn Arg Lys Arg Ala Arg Arg Ala
 260 265 270

Asn Thr Leu Leu Phe Arg His Phe Gly Asp Asp Arg Gln Arg Gly Glu
 275 280 285
 Gly Ser Met Ala Ser Thr Gly Glu Asn Gly His Lys Pro Gly His Gln
 290 295 300
 Arg Gly Lys Glu Gly Asp Val Phe Arg Met Ala Thr Gln His Thr Leu
 305 310 315 320
 Arg Gln Ala His Gln Val Val His Thr Ala Ser Asp Leu His Gly Arg
 325 330 335
 Asp Ser Ser Asn Asn Arg His Asp Asp Phe Asp Asn Val Lys Arg Asp
 340 345 350
 Cys Ala Gly Phe Asn Leu Lys Asp Gln Gly Lys Tyr Lys His Ser Glu
 355 360 365
 Thr Ala Ser Lys Thr Asp Ala Asp Ser Pro Glu Ser Cys Ala Gln Ile
 370 375 380
 Asn Arg Gln Gln Asp Asp Glu Phe Cys Ser Lys His Lys Asp Leu
 385 390 395 400
 Pro Cys Ser Leu Thr Ser
 405

<210> 7177

<211> 185

<212> PRT

<213> *Enterobacter cloacae*

<400> 7177

Asn Leu Ala Asn Arg His Leu Leu Ser Thr Arg Phe Ala Asn Thr
 1 5 10 15
 Phe Ser Gln Gly Gln Lys Ala Pro Ala Ile Gln Glu Met Pro Val Arg
 20 25 30
 Trp Ile Pro Phe Ile Ala Phe Phe Leu Tyr Val Tyr Ile Glu Ile Ser
 35 40 45
 Ile Phe Ile Gln Val Ala His Val Leu Gly Val Leu Leu Thr Leu Ile
 50 55 60
 Leu Val Ile Phe Thr Ser Val Ile Gly Met Ser Leu Val Arg Asn Gln
 65 70 75 80
 Gly Phe Lys Asn Phe Leu Leu Met Gln Gln Lys Met Ala Ala Gly Glu
 85 90 95
 Ser Pro Ala Ala Glu Met Ile Lys Ser Val Ser Leu Ile Ile Ala Gly
 100 105 110
 Leu Leu Leu Ile Leu Pro Gly Phe Phe Thr Asp Phe Leu Gly Leu Leu
 115 120 125
 Leu Leu Leu Pro Pro Val Gln Lys His Leu Thr Met Lys Leu Leu Pro
 130 135 140
 His Leu Arg Phe Ser Arg Met Pro Gly Gly Gly Phe Ser Thr Gly Pro
 145 150 155 160
 Gly Asp Thr Phe Glu Gly Glu Tyr Gln Arg Lys Asp Glu Gln Arg Asp
 165 170 175
 Arg Leu Asp His Lys Asp Asp Arg
 180 185

<210> 7178

<211> 130

<212> PRT

<213> *Enterobacter cloacae*

<400> 7178

Lys Ala Ile Pro Ile Ser Gln Gly Thr Ser Arg Lys Thr Ala Cys Gly
 1 5 10 15
 Pro Ala Ser Ser Ile Thr Asp Asn Asp Phe Leu Lys Gly Glu Leu Ser
 20 25 30
 Met Ser Ile Arg Pro Leu His Asp Arg Val Ile Val Lys Arg Lys Glu

35 40 45
 Val Glu Thr Lys Ser Ala Gly Gly Ile Val Leu Thr Gly Ser Ala Ala
 50 55 60
 Ala Lys Ser Thr Arg Gly Glu Ile Ile Ala Val Gly Lys Gly Arg Ile
 65 70 75 80
 Leu Glu Asn Gly Thr Val Gln Pro Leu Asp Val Lys Val Gly Asp Ile
 85 90 95
 Val Ile Phe Asn Asp Gly Tyr Gly Val Lys Ser Glu Lys Ile Asp Asn
 100 105 110
 Glu Glu Val Leu Ile Met Ser Glu Ser Asp Ile Leu Ala Ile Val Glu
 115 120 125
 Ala

130

<210> 7179

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 7179

Thr Arg Ile His Leu Gly Thr His Ala Trp Leu Ile Gln Leu Arg Leu
 1 5 10 15
 Ala Lys Ala Arg Gln Met Leu Ala Cys Gly Glu Leu Pro Val Asp Val
 20 25 30
 Ala Thr Ala Val Gly Phe Ala Asp Gln Ser His Leu Gly Arg Trp Phe
 35 40 45
 Gln Arg Ala Tyr Arg Ile Ser Pro Ala His Tyr Arg Arg Leu Cys Thr
 50 55 60
 Asn Leu Pro Asp Val Ser Arg Lys
 65 70

<210> 7180

<211> 553

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (381)

<400> 7180

Gly Asn Lys Asn Met Ala Ala Lys Asp Val Lys Phe Gly Asn Asp Ala
 1 5 10 15
 Arg Val Lys Met Leu Arg Gly Val Asn Val Leu Ala Asp Ala Val Lys
 20 25 30
 Val Thr Leu Gly Pro Lys Gly Arg Asn Val Val Leu Asp Lys Ser Phe
 35 40 45
 Gly Ala Pro Thr Ile Thr Lys Asp Gly Val Ser Val Ala Arg Glu Ile
 50 55 60
 Glu Leu Glu Asp Lys Phe Glu Asn Met Gly Ala Gln Met Val Lys Glu
 65 70 75 80
 Val Ala Ser Lys Ala Asn Asp Ala Ala Gly Asp Gly Thr Thr Thr Ala
 85 90 95
 Thr Val Leu Ala Gln Ala Ile Ile Thr Glu Gly Leu Lys Ala Val Ala
 100 105 110
 Ala Gly Met Asn Pro Met Asp Leu Lys Arg Gly Ile Asp Lys Ala Val
 115 120 125
 Ala Ser Ala Val Glu Glu Leu Lys Ala Leu Ser Val Pro Cys Ser Asp
 130 135 140
 Ser Lys Ala Ile Ala Gln Val Gly Thr Ile Ser Ala Asn Ser Asp Glu
 145 150 155 160

Thr Val Gly Lys Leu Ile Ala Glu Ala Met Asp Lys Val Gly Lys Glu
 165 170 175
 Gly Val Ile Thr Val Glu Asp Gly Thr Gly Leu Glu Asp Glu Leu Asp
 180 185 190
 Val Val Glu Gly Met Gln Phe Asp Arg Gly Tyr Leu Ser Pro Tyr Phe
 195 200 205
 Ile Asn Lys Pro Glu Thr Gly Ala Val Glu Leu Glu Ser Pro Phe Ile
 210 215 220
 Leu Leu Ala Asp Lys Lys Ile Ser Asn Ile Arg Glu Met Leu Pro Val
 225 230 235 240
 Leu Glu Ala Val Ala Lys Ala Gly Lys Pro Leu Val Ile Ile Ala Glu
 245 250 255
 Asp Val Glu Gly Glu Ala Leu Ala Thr Leu Val Val Asn Thr Met Arg
 260 265 270
 Gly Ile Val Lys Val Ala Ala Val Lys Ala Pro Gly Phe Gly Asp Arg
 275 280 285
 Arg Lys Ala Met Leu Gln Asp Ile Ala Thr Leu Thr Gly Gly Thr Val
 290 295 300
 Ile Ser Glu Glu Ile Gly Met Glu Leu Glu Lys Ala Thr Leu Glu Asp
 305 310 315 320
 Leu Gly Gln Ala Lys Arg Val Val Ile Asn Lys Asp Thr Thr Thr Ile
 325 330 335
 Ile Asp Gly Val Gly Glu Glu Ala Ala Ile Gln Gly Arg Val Gly Gln
 340 345 350
 Ile Arg Lys Gln Ile Glu Glu Ala Thr Ser Asp Tyr Asp Arg Glu Lys
 355 360 365
 Leu Gln Glu Arg Val Ala Lys Leu Ala Gly Gly Val Xaa Val Ile Lys
 370 375 380
 Val Gly Ala Ala Thr Glu Val Glu Met Lys Glu Lys Lys Ala Arg Val
 385 390 395 400
 Asp Asp Ala Leu His Ala Thr Arg Ala Ala Val Glu Glu Gly Val Val
 405 410 415
 Ala Gly Gly Gly Val Ala Leu Val Arg Val Ala Ala Lys Leu Ala Gly
 420 425 430
 Leu Thr Ala Gln Asn Glu Asp Gln Asn Val Gly Ile Lys Val Ala Leu
 435 440 445
 Arg Ala Met Glu Ala Pro Leu Arg Gln Ile Val Ser Asn Ala Gly Glu
 450 455 460
 Glu Pro Ser Val Val Ala Asn Lys Val Lys Ala Gly Glu Gly Asn Tyr
 465 470 475 480
 Gly Tyr Asn Ala Ala Thr Glu Glu Tyr Gly Asn Met Ile Asp Phe Gly
 485 490 495
 Ile Leu Asp Pro Thr Lys Val Thr Arg Ser Ala Leu Gln Tyr Ala Ala
 500 505 510
 Ser Val Ala Gly Leu Met Ile Thr Thr Glu Cys Met Val Thr Asp Leu
 515 520 525
 Pro Lys Gly Asp Ala Pro Asp Leu Gly Ala Ala Gly Met Gly Gly
 530 535 540
 Met Gly Gly Met Gly Gly Met Met
 545 550

<210> 7181

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 7181

Val Lys Glu Pro Asp Met Ser Trp Ile Val Leu Val Ile Ala Gly Leu
 1 5 10 15
 Leu Glu Val Val Trp Ala Ile Gly Leu Lys Tyr Thr His Gly Phe Thr
 20 25 30

Arg Leu Thr Pro Ser Val Ile Thr Ile Ala Ala Met Ile Val Ser Ile
 35 40 45
 Val Met Leu Ser Trp Ala Met Arg Ser Leu Pro Val Gly Thr Ala Tyr
 50 55 60
 Ala Val Trp Thr Gly Ile Gly Ala Val Gly Ala Ala Ile Thr Gly Ile
 65 70 75 80
 Leu Leu Leu Gly Glu Ser Ala Ser Leu Ala Arg Ile Ala Ser Leu Ala
 85 90 95
 Leu Ile Val Ala Gly Ile Ile Gly Leu Lys Leu Ser Thr His
 100 105 110

<210> 7182

<211> 416

<212> PRT

<213> *Enterobacter cloacae*

<400> 7182

Met Ser Gly Leu Arg Gln Glu Leu Gly Leu Ala Gln Gly Ile Gly Leu
 1 5 10 15
 Leu Ser Thr Ser Leu Leu Gly Thr Gly Val Phe Ala Val Pro Ala Leu
 20 25 30
 Ala Ala Leu Val Ala Gly Asn Asn Ser Leu Trp Ala Trp Pro Val Leu
 35 40 45
 Ile Val Leu Val Phe Pro Val Ala Ile Val Phe Ala Ile Leu Gly Arg
 50 55 60
 His Phe Pro Ser Ala Gly Gly Val Thr His Phe Val Gly Met Ala Phe
 65 70 75 80
 Gly Pro Arg Met Glu Arg Val Thr Gly Trp Leu Phe Leu Ser Val Ile
 85 90 95
 Pro Val Gly Leu Pro Ala Ala Leu His Ile Ala Thr Gly Phe Gly Gln
 100 105 110
 Ala Leu Phe Gly Trp His Asp Glu Gln Leu Leu Leu Ala Glu Ile Gly
 115 120 125
 Thr Leu Ala Ile Val Trp Trp Val Gly Ser Arg Gly Ala Ser Ser Ser
 130 135 140
 Ala Asn Leu Gln Thr Leu Val Ala Val Leu Ile Val Ala Leu Ile Val
 145 150 155 160
 Ala Ile Trp Phe Ala Gly Asp Ile Thr Val Ala Asp Ile Pro Phe Pro
 165 170 175
 Ala Ile Asn Asp Ile Asp His Ala Gln Leu Phe Ala Ala Leu Ser Val
 180 185 190
 Met Phe Trp Cys Phe Val Gly Leu Glu Ala Phe Ala His Leu Ala Ser
 195 200 205
 Glu Phe Lys Gln Pro Glu Arg Asp Phe Pro Arg Ala Leu Met Ile Gly
 210 215 220
 Leu Leu Leu Ala Gly Thr Val Tyr Trp Ala Cys Thr Val Leu Val Leu
 225 230 235 240
 His Phe Asn Ala Phe Ser Glu Glu Lys Ala Ala Ala Ser Leu Pro
 245 250 255
 Gly Ile Val Val Gln Leu Phe Gly Val Lys Ala Leu Trp Val Ala Cys
 260 265 270
 Val Ile Gly Tyr Leu Ala Cys Phe Ala Ser Leu Asn Ile Tyr Ile Gln
 275 280 285
 Asn Phe Ala Arg Leu Val Trp Ser Gln Ala Leu Tyr Lys Pro Asp Ser
 290 295 300
 Pro Leu Ser Arg Leu Ser Lys Arg Gln Leu Pro Val Asn Ala Leu Asn
 305 310 315 320
 Thr Val Leu Gly Cys Cys Val Val Asn Ser Leu Ala Ile Tyr Leu Leu
 325 330 335
 Asp Ile Asn Leu Asp Ala Leu Ile Val Tyr Ala Asn Gly Ile Phe Ile
 340 345 350

Met Ile Tyr Leu Leu Cys Met Leu Ala Gly Cys Arg Leu Leu Lys Gly
 355 360 365
 Arg Phe Lys Ala Leu Ala Ala Val Gly Cys Val Leu Cys Leu Met Leu
 370 375 380
 Leu Ala Met Val Gly Trp Lys Ser Val Tyr Ala Ile Val Met Leu Ala
 385 390 395 400
 Gly Leu Trp Val Phe Leu Pro Lys Arg Gln Ala Pro Gln Ala Arg
 405 410 415

<210> 7183

<211> 506

<212> PRT

<213> Enterobacter cloacae

<400> 7183

Ser Ser Val Ile Lys Tyr Ser Lys Pro His Ile Tyr Cys Val Phe Ser
 1 5 10 15
 Thr Ile His Arg Gln Leu Glu Lys Lys Val His Met Leu Asn Asn Ile
 20 25 30
 Arg Ile Glu Glu Asp Leu Leu Gly Thr Arg Glu Val Pro Ala Asp Ala
 35 40 45
 Tyr Tyr Gly Val His Thr Leu Arg Ala Ile Glu Asn Phe Tyr Ile Ser
 50 55 60
 Asn Ser Lys Ile Ser Asp Ile Pro Glu Phe Val Arg Gly Met Val Met
 65 70 75 80
 Val Lys Lys Ala Ala Ala Leu Ala Asn Lys Glu Leu Gln Thr Ile Pro
 85 90 95
 Lys Ser Ala Ala Asn Ala Ile Ile Ala Ala Cys Asp Glu Val Leu Asn
 100 105 110
 Asn Gly Lys Cys Met Asp Gln Phe Pro Val Asp Val Tyr Gln Gly Gly
 115 120 125
 Ala Gly Thr Ser Val Asn Met Asn Thr Asn Glu Val Leu Ala Asn Ile
 130 135 140
 Gly Leu Glu Leu Met Gly His Gln Lys Gly Glu Tyr Gln Tyr Leu Asn
 145 150 155 160
 Pro Asn Asp His Val Asn Lys Cys Gln Ser Thr Asn Asp Ala Tyr Pro
 165 170 175
 Thr Gly Phe Arg Ile Ala Val Tyr Ala Ser Val Val Lys Leu Val Asp
 180 185 190
 Ala Ile Asn Gln Leu Gly Asp Gly Phe Gln Arg Lys Ala Val Glu Phe
 195 200 205
 Gln Asp Ile Leu Lys Met Gly Arg Thr Gln Leu Gln Asp Ala Val Pro
 210 215 220
 Met Thr Leu Gly Gln Glu Phe His Ala Phe Asn Val Leu Leu Asn Glu
 225 230 235 240
 Glu Thr Lys Asn Leu Leu Arg Thr Ser Glu Leu Leu Leu Glu Val Asn
 245 250 255
 Leu Gly Ala Thr Ala Ile Gly Thr Arg Leu Asn Thr Pro Asp Gly Tyr
 260 265 270
 Gln Gln Leu Ala Val Gln Lys Leu Ala Glu Val Ser Asn Leu Pro Val
 275 280 285
 Val Pro Ala Glu Asp Leu Ile Glu Ala Thr Ser Asp Cys Gly Ala Tyr
 290 295 300
 Val Met Val His Ser Ala Leu Lys Arg Leu Ala Val Lys Leu Ser Lys
 305 310 315 320
 Ile Cys Asn Asp Leu Arg Leu Leu Ser Ser Gly Pro Arg Ala Gly Leu
 325 330 335
 Asn Glu Ile Asn Leu Pro Glu Leu Gln Ala Gly Ser Ser Ile Met Pro
 340 345 350
 Ala Lys Val Asn Pro Val Val Pro Glu Val Val Asn Gln Val Cys Phe
 355 360 365

Lys Val Ile Gly Asn Asp Thr Thr Val Thr Met Ala Ser Glu Ala Gly
 370 375 380
 Gln Leu Gln Leu Asn Val Met Glu Pro Val Ile Gly Gln Ala Met Phe
 385 390 400
 Glu Ser Ile His Ile Leu Thr Asn Ala Cys Tyr Asn Leu Leu Glu Lys
 405 410 415
 Cys Ile Asn Gly Ile Thr Ala Asn Lys Glu Val Cys Glu Gly Tyr Val
 420 425 430
 Tyr Asn Ser Ile Gly Ile Val Thr Tyr Leu Asn Pro Phe Ile Gly His
 435 440 445
 His Asn Gly Asp Ile Val Gly Lys Ile Cys Ala Glu Thr Gly Lys Ser
 450 455 460
 Val Arg Glu Val Val Leu Glu Arg Gly Leu Leu Thr Glu Ala Glu Leu
 465 470 475 480
 Asp Asp Ile Phe Ser Ala Gln Asn Leu Met His Pro Ala Tyr Lys Ala
 485 490 495
 Lys Arg Tyr Thr Asp Glu Ser Glu Gln
 500 505

<210> 7184

<211> 574

<212> PRT

<213> Enterobacter cloacae

<400> 7184

Arg Leu Ser Leu Met Ala Gln Arg Phe Ile Thr Leu Ile Leu Leu Leu
 1 5 10 15
 Cys Ser Thr Ser Val Phe Ala Gly Leu Phe Asp Ala Pro Gly Arg Ser
 20 25 30
 Asn Phe Ile Pro Ala Asp Gln Ala Phe Val Phe Asp Phe Gln Gln Asn
 35 40 45
 Gln His Asp Leu Ser Leu Thr Trp Gln Val Lys Glu Gly Tyr Tyr Leu
 50 55 60
 Tyr Arg Lys Gln Val Ser Ile Thr Pro Thr Lys Ala Asn Val Gly Ala
 65 70 75 80
 Leu Gln Met Pro Ala Gly Val Trp His Glu Asp Glu Phe Tyr Gly Lys
 85 90 95
 Ser Glu Ile Tyr Arg Gln Arg Leu Ser Val Pro Val Thr Val Asn His
 100 105 110
 Ala Asp Lys Gly Ala Thr Leu Thr Val Thr Tyr Gln Gly Cys Ala Asp
 115 120 125
 Ala Gly Phe Cys Tyr Pro Pro Glu Thr Lys Val Val Pro Leu Ser Glu
 130 135 140
 Val Lys Gly Ala Ala Ser Pro Leu Pro Ser Gly Glu Arg Ala Arg Met
 145 150 155 160
 Lys Gly Glu Gly Ala Gly Glu Ala Thr Ser Asp Leu Pro Phe Ser Ala
 165 170 175
 Leu Trp Ala Leu Leu Ile Gly Ile Gly Ile Ala Phe Thr Pro Cys Val
 180 185 190
 Leu Pro Met Tyr Pro Leu Ile Ser Gly Ile Val Leu Gly Gly Lys Gln
 195 200 205
 Arg Leu Ser Thr Ala Arg Ala Leu Leu Leu Ala Phe Ile Tyr Val Gln
 210 215 220
 Gly Met Ala Leu Thr Tyr Thr Ala Leu Gly Leu Val Val Ala Ala Ala
 225 230 235 240
 Gly Leu Gln Phe Gln Ala Ala Leu Gln His Pro Tyr Val Leu Ile Gly
 245 250 255
 Leu Ser Ala Val Phe Ile Leu Leu Ala Leu Ser Met Phe Gly Leu Phe
 260 265 270
 Thr Leu Gln Leu Pro Ser Ser Leu Gln Thr Arg Leu Thr Leu Met Ser
 275 280 285

Asn Arg Gln Gln Gly Gly Ser Ala Gly Gly Val Phe Ala Met Gly Ala
 290 295 300
 Ile Ala Gly Leu Ile Cys Ser Pro Cys Thr Thr Ala Pro Leu Ser Ala
 305 310 315 320
 Ile Leu Leu Tyr Ile Ala Gln Ser Gly Asn Leu Trp Leu Gly Gly Gly
 325 330 335
 Thr Leu Tyr Leu Tyr Ala Leu Gly Met Gly Leu Pro Leu Ile Leu Val
 340 345 350
 Thr Val Phe Gly Asn Arg Leu Leu Pro Lys Ser Gly Pro Trp Met Glu
 355 360 365
 Thr Val Lys Thr Ala Phe Gly Phe Val Ile Leu Ala Leu Pro Val Phe
 370 375 380
 Leu Leu Glu Arg Ile Ile Gly Asp Val Trp Gly Thr Arg Leu Trp Ala
 385 390 395 400
 Met Leu Gly Val Ala Phe Phe Ser Trp Ala Phe Ile Val Ser Leu Gly
 405 410 415
 Ala Lys Lys Pro Trp Met Arg Leu Leu Gln Ile Leu Leu Leu Ala Ala
 420 425 430
 Ala Leu Val Ser Val Arg Pro Leu Gln Asp Trp Ala Phe Gly Thr Pro
 435 440 445
 Ala Gly Gln Thr Gln Ala His Leu Asn Phe Ile Gln Ile Lys Asn Val
 450 455 460
 Asp Asp Leu Asn His Ala Leu Ala Gln Ala Lys Gly Lys Pro Val Met
 465 470 475 480
 Leu Asp Leu Tyr Ala Asp Trp Cys Val Ala Cys Lys Glu Phe Glu Lys
 485 490 495
 Tyr Thr Phe Ser Asp Pro Gln Val Gln His Ala Leu Ser Asp Thr Val
 500 505 510
 Leu Leu Gln Ala Asn Val Thr Ala Asn Ser Thr Gln Asp Lys Ala Leu
 515 520 525
 Leu Lys Gln Leu Lys Val Leu Gly Leu Pro Thr Ile Leu Phe Phe Asn
 530 535 540
 Glu Gln Gly Glu Glu Gln Pro Thr Gln Arg Val Thr Gly Phe Met Asp
 545 550 555 560
 Ala Thr Ala Phe Asn Ala His Leu Arg Asn Arg Gln Pro
 565 570

<210> 7185

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 7185

Leu Ser His Lys Met Ala His Ile Val Thr Leu Asn Thr Pro Ser Arg
 1 5 10 15
 Glu Asp Trp Leu Ser Gln Leu Ala Asp Val Ile Thr Ser Pro Asp Glu
 20 25 30
 Leu Leu Arg Leu Leu Asp Leu Glu Gln His Glu Ala Leu Arg Ala Gly
 35 40 45
 Arg Glu Ala Lys Arg Leu Phe Ala Leu Arg Val Pro Arg Ala Phe Val
 50 55 60
 Ala Arg Met Glu Lys Gly Asn Pro Asp Asp Pro Leu Leu Lys Gln Thr
 65 70 75 80
 Leu Thr Ser Gln Asp Glu Phe Ile Thr Ala Pro Gly Tyr Ser Thr Asp
 85 90 95
 Pro Leu Gln Glu Gln Asn Ser Val Val Pro Gly Leu Leu His Lys Tyr
 100 105 110
 Arg Asn Arg Ala Leu Leu Leu Val Lys Gly Gly Cys Ala Val Asn Cys
 115 120 125
 Arg Tyr Cys Phe Arg Arg His Phe Pro Tyr Ala Glu Asn Gln Gly Asn
 130 135 140

Lys Arg Asn Trp Gln Val Ala Leu Asp Tyr Ile Thr Ala His Pro Glu
 145 150 155 160
 Leu Asp Glu Ile Ile Phe Ser Gly Gly Asp Pro Leu Met Ala Lys Asp
 165 170 175
 His Glu Leu Asp Trp Leu Leu Thr Gln Leu Glu Thr Ile Pro His Ile
 180 185 190
 Lys Arg Leu Arg Ile His Ser Arg Leu Pro Ile Val Ile Pro Ala Arg
 195 200 205
 Ile Thr Asp Ala Leu Val Thr Arg Leu Glu Gln Ser Arg Leu Gln Val
 210 215 220
 Leu Leu Val Asn His Ile Asn His Ala Asn Glu Ile Asp Ala Asp Phe
 225 230 235 240
 Arg Glu Ala Met Ala Arg Met Arg Lys Ala Gly Val Thr Leu Leu Asn
 245 250 255
 Gln Ser Val Leu Leu Arg Gly Val Asn Asp Ser Ala Arg Val Leu Ala
 260 265 270
 Asp Leu Ser Asn Ala Leu Phe Asp Ala Gly Val Met Pro Tyr Tyr Leu
 275 280 285
 His Val Leu Asp Arg Val Gln Gly Ala Ala His Phe Met Val Thr Asp
 290 295 300
 Glu Glu Ala Arg Lys Ile Met Arg Glu Leu Leu Thr Leu Val Ser Gly
 305 310 315 320
 Tyr Met Val Pro Lys Leu Ala Arg Glu Ile Gly Gly Glu Pro Ser Lys
 325 330 335
 Thr Pro Leu Asp Leu Gln Leu Arg Gln Gln
 340 345

<210> 7186

<211> 209

<212> PRT

<213> *Enterobacter cloacae*

<400> 7186

Arg His Tyr Tyr Gln Leu Phe Phe Phe Arg Arg Cys Thr Leu Tyr Leu
 1 5 10 15
 Tyr Tyr Arg Pro Gly Asn His Ala Ala Cys Arg His Ser Gly Val Gln
 20 25 30
 Ile Cys Trp Arg Glu Leu Ser Ala Thr Val Asp Arg Pro His Gly Ser
 35 40 45
 Ser Leu Arg Ser Gly Gly Lys Met Ile Ala Gln Ser Arg Lys Asn Ile
 50 55 60
 Met Asp Leu Phe Ile Asp Gly Ala Arg Arg Gly Phe Thr Ile Ala Thr
 65 70 75 80
 Thr Ser Leu Leu Pro Asn Val Val Met Ala Phe Val Ile Ile Gln Ala
 85 90 95
 Leu Lys Val Thr Gly Leu Leu Asp Ile Val Gly Arg Val Cys Glu Pro
 100 105 110
 Ile Met Ala Leu Trp Gly Leu Pro Gly Ala Ala Thr Val Leu Leu
 115 120 125
 Ala Ser Val Met Ser Met Gly Gly Gly Val Gly Val Cys Ala Ser Leu
 130 135 140
 Val Ala Ala Gly Thr Leu Asn Gly His Asp Ala Thr Ile Leu Leu Pro
 145 150 155 160
 Ala Ile Tyr Leu Met Gly Asn Pro Val Gln Asn Thr Gly Arg Cys Leu
 165 170 175
 Gly Thr Ala Gly Val Asn Pro Lys Tyr Tyr Pro His Ile Ile Ala Val
 180 185 190
 Cys Val Ile Asn Ala Leu Leu Ser Met Trp Val Met Gln Leu Leu Phe
 195 200 205

<210> 7187
 <211> 558
 <212> PRT
 <213> Enterobacter cloacae

<400> 7187

Val Arg Arg Val Ala Phe Arg Gln Val Gly His His Ala Leu Gly Arg
 1 5 10 15
 Asp His Gln Ala Ser Tyr Arg Cys Arg Val Leu Gln Ser Arg Thr Gly
 20 25 30
 His Phe Ser Trp Ile Gln Asp Thr Glu Val Asp His Val Ala Val Phe
 35 40 45
 Phe Ser Cys Arg Val Val Thr Val Val Thr Phe Thr Arg Phe His Leu
 50 55 60
 Val Arg Asn His Arg Arg Leu Phe Thr Gly Val Gly His Asp Leu Thr
 65 70 75 80
 Gln Arg Ser Phe His Cys Ala Gln Arg Asn Phe Asp Thr His Val Leu
 85 90 95
 Val Phe Val Leu Ser Ser Gln Ala Ser Gln Phe Ser Gly Tyr Thr His
 100 105 110
 Gln Arg Asp Thr Thr Thr Ser Asn His Ala Phe Phe Tyr Arg Ser Thr
 115 120 125
 Gly Arg Val Gln Gly Val Val Asn Ala Cys Phe Leu Leu Phe His Phe
 130 135 140
 Asn Phe Gly Ser Arg Thr Asp Phe Asp Tyr Arg Tyr Ala Thr Cys Gln
 145 150 155 160
 Phe Arg Tyr Ala Leu Leu Glu Phe Phe Thr Val Val Ile Gly Ser Cys
 165 170 175
 Phe Phe Asp Leu Leu Thr Asp Leu Thr Asn Thr Ala Leu Asn Ser Gly
 180 185 190
 Phe Phe Thr His Thr Val Asp Asp Gly Gly Gly Val Phe Val Asp His
 195 200 205
 Asn Ala Phe Arg Leu Ala Gln Val Phe Gln Ser Arg Phe Phe Gln Leu
 210 215 220
 His Thr Asp Leu Phe Gly Asp His Gly Thr Ala Gly Gln Gly Ser Asp
 225 230 235 240
 Ile Leu Glu His Arg Leu Thr Thr Ile Ala Glu Thr Arg Cys Phe Asn
 245 250 255
 Arg Cys His Phe His Asp Ala Thr His Gly Val Asn His Gln Gly Arg
 260 265 270
 Gln Arg Phe Ala Phe Asn Val Phe Ser Asn Asp Tyr Gln Arg Leu Ala
 275 280 285
 Cys Phe Arg Asp Ser Phe Gln His Trp Gln His Phe Ala Asp Val Gly
 290 295 300
 Asp Phe Leu Val Ser Gln Gln Asp Glu Arg Ala Phe Gln Leu Asn Ser
 305 310 315 320
 Ala Ser Phe Trp Leu Val Asp Glu Val Trp Gly Gln Val Thr Ala Val
 325 330 335
 Glu Leu His Thr Phe Asn His Val Gln Phe Val Phe Gln Thr Ser Thr
 340 345 350
 Val Phe Asn Gly Asp His Ala Phe Phe Thr Asp Phe Ile His Arg Phe
 355 360 365
 Ser Asp Gln Phe Thr Tyr Gly Phe Val Gly Val Ser Gly Asp Ser Thr
 370 375 380
 Asn Leu Ser Asn Gly Phe Arg Val Arg Ala Arg Tyr Gly Gln Arg Phe
 385 390 395 400
 Gln Phe Phe Asn Ser Gly Ser Asp Gly Phe Val Asp Thr Thr Phe Gln
 405 410 415
 Ile His Trp Val His Ala Arg Ser Asn Gly Phe Gln Ala Phe Gly Asp
 420 425 430

Asp Arg Leu Arg Gln Tyr Gly Arg Gly Gly Thr Val Thr Gly Ser
 435 440
 Val Val Arg Phe Arg Gly Asn Phe Phe His His Leu Cys Ala His Val
 450 455 460
 Phe Glu Leu Val Phe Gln Leu Asp Phe Thr Cys Asn Arg Asn Thr Ile
 465 470 475 480
 Phe Gly Asp Gly Trp Arg Ala Glu Gly Phe Val Gln His Tyr Val Thr
 485 490 495
 Ala Phe Arg Ala Glu Ser Asp Phe His Cys Val Cys Gln Tyr Val Tyr
 500 505 510
 Ala Ala Glu His Phe Tyr Thr Ser Val Val Thr Glu Phe Tyr Val Phe
 515 520 525
 Ser Cys His Val Leu Ile Ser Ser Asn Ser Tyr Ser Phe Arg Ala Leu
 530 535 540
 Ile Thr Leu Gln Gln Leu Pro Glu Cys Arg Ser Arg Thr
 545 550 555

<210> 7188

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 7188

Gly Gly Arg Leu Val Asn Thr Pro Asp Ala Val Val Val Leu Cys Thr
 1 5 10 15
 Ala Pro Asp Glu Ala Ser Ala Gln Asp Leu Ala Ala Lys Val Leu Ala
 20 25 30
 Glu Lys Leu Ala Ala Cys Val Thr Leu Leu Pro Gly Ala Thr Ser Leu
 35 40 45
 Tyr Tyr Trp Glu Gly Lys Leu Glu Gln Glu Tyr Glu Val Gln Met Leu
 50 55 60
 Leu Lys Thr Asn Leu Thr Asn Gln Gln Ala Leu Leu Asp Cys Leu Lys
 65 70 75 80
 Ser His His Pro Tyr Gln Thr Pro Glu Leu Leu Val Leu Pro Val Val
 85 90 95
 His Gly Asp Asn Asp Tyr Leu Ser Trp Leu Asn Ala Ser Leu Arg
 100 105 110

<210> 7189

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 7189

Pro Gly Leu Trp Thr Arg Arg His Ser Thr Arg Ile Cys Ala Ile Ala
 1 5 10 15
 Asn Arg Lys Pro His Phe Arg Arg Asp Lys Pro Leu Gly Ile Ala Glu
 20 25 30
 Glu Ile Thr Val Gln Arg Glu Asp Val Leu Gly Gln Ala Leu Gln Leu
 35 40 45
 Leu Glu Ile Gln Gly Ile Ala Ser Thr Thr Leu Glu Met Val Ala Asp
 50 55 60
 Arg Ile Asp Tyr Pro Leu Asp Glu Leu Arg Arg Phe Trp Pro Asp Lys
 65 70 75 80
 Glu Ala Leu Leu Tyr Asp Ala Leu Arg Tyr Leu Ser Gln Gln Val Asp
 85 90 95
 Ile Trp Arg Arg Gln Leu Met Leu Asn Glu Glu Leu Thr Thr Glu Gln
 100 105 110
 Lys Leu Leu Ala Arg Tyr Thr Ala Leu Thr Glu Cys Val Thr Asn Asn
 115 120 125
 Arg Tyr Pro Gly Cys Leu Phe Ile Ala Ala Cys Thr Tyr Tyr Pro Asp

130 135 140
 Pro Gly His Pro Ile His Gln Leu Ala Asp Gln Gln Lys Arg Ala Ala
 145 150 155 160
 His Glu Phe Thr His Glu Leu Leu Thr Thr Leu Glu Val Asp Asp Pro
 165 170 175
 Ala Met Val Ala Lys Gln Met Glu Leu Val Leu Glu Gly Cys Leu Ser
 180 185 190
 Arg Met Leu Val Asn Arg Ser Gln Ala Asp Val Asp Thr Ala His Arg
 195 200 205
 Leu Ala Glu Asp Ile Leu Arg Phe Ala Gln Cys Arg Met Gly Gly Ala
 210 215 220
 Leu Thr
 225

<210> 7190

<211> 322

<212> PRT

<213> *Enterobacter cloacae*

<400> 7190

Glu Arg Glu Glu Glu Lys Lys Lys Arg Gly Lys Arg Gly Lys Lys Lys
 1 5 10 15
 Glu Gly Gly Lys Lys Arg Glu Lys Gly Gly Lys Lys Lys Glu Arg Lys
 20 25 30
 Glu Gly Lys Gly Glu Glu Gly Glu Gly Gly Lys Gly Gly Gly Lys Arg
 35 40 45
 Gly Arg Arg Gly Gly Lys Lys Gly Glu Lys Lys Lys Glu Lys Glu Gly
 50 55 60
 Lys Arg Glu Glu Lys Gly Arg Glu Lys Lys Gly Arg Gly Lys Glu Gly
 65 70 75 80
 Glu Glu Gly Lys Gly Gly Glu Gly Gly Lys Lys Lys Glu Lys Lys
 85 90 95
 Gly Arg Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 100 105 110
 Lys Lys Lys Lys Lys Lys Thr Arg Gln Asn Thr Leu His Asn Leu Pro
 115 120 125
 His Phe Pro Cys Cys His Leu His Leu Thr Lys Asn Ser Lys Glu Thr
 130 135 140
 Pro Met Arg Ile Leu Pro Val Ile Ala Ala Val Thr Ala Ala Phe Leu
 145 150 155 160
 Val Val Ala Cys Ser Ser Pro Thr Pro Pro Gly Val Thr Val Val
 165 170 175
 Ser Asn Phe Asp Ala Gln Arg Phe Leu Gly Thr Trp Tyr Glu Ile Ala
 180 185 190
 Arg Met Asp His Gln Phe Glu Arg Gly Leu Glu Lys Val Thr Val Asn
 195 200 205
 Tyr Ser Ala Met Asp Asp Gly Gly Ile Arg Val Ile Asn Arg Gly Tyr
 210 215 220
 Asn Pro Asp Arg Gln Met Trp Gln Gln Ser Val Gly Gln Ala Tyr Phe
 225 230 235 240
 Thr Gly Ala Ser Asn Arg Ala Ala Met Lys Val Ser Phe Ile Gly Pro
 245 250 255
 Phe Tyr Gly Gly Tyr Asn Val Ile Ala Leu Asp Arg Glu Tyr Arg His
 260 265 270
 Ala Leu Val Cys Gly Pro Asp Arg Asn Tyr Leu Trp Ile Leu Ser Arg
 275 280 285
 Thr Pro Thr Ile Pro Ala Glu Met Lys Gln Gln Met Leu Asp Ile Ala
 290 295 300
 Thr Arg Gln Gly Phe Asp Val Thr Lys Leu Leu Trp Val Lys Gln Pro
 305 310 315 320
 His

<210> 7191
 <211> 213
 <212> PRT
 <213> Enterobacter cloacae

<400> 7191

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Trp Gln Glu Ala Lys Pro Leu Ala Asp Cys Glu Asn Phe Met Phe Lys
1      5      10      15
Ile Leu Leu Ile Asp Arg Cys His Phe Thr Arg Thr Gly Phe Glu Ala
20      25      30
Trp Val Asn His Ser Asp Leu Phe Ser Gly His Phe Val Val Thr Gly
35      40      45
Val Asn Asn Leu Phe Leu Ala Arg Glu His Ile Leu Gln Trp Lys Pro
50      55      60
Ala Leu Val Ile Ala Asp Leu Ser Gly Phe Arg Gln Asp Leu His His
65      70      75      80
Phe Gln Gln Leu Ser Ser Leu Leu Ile Ala Ser Glu Thr Leu Pro Phe
85      90      95
Ile Met Leu Gln Ser Gly Gln Glu Gln Glu Met Thr Asp Tyr Leu Ala
100      105      110
Gln Phe Pro Ile Trp Ser Ser Leu Ser Lys Asn Thr Asp Leu Glu Lys
115      120      125
Leu Ala Ala Val Ile Asn Asp Ala Leu Thr Ser Cys Ala Ser Ala Glu
130      135      140
Leu Pro Glu Met Ala Ala Pro Leu Leu Thr Arg Gln Glu Glu Arg Val
145      150      155      160
Leu Ser Leu Trp Met Asp Gly Ala Ser Asn Gln Lys Ile Ala Ser Asn
165      170      175
Leu Arg Ile Asn Gly Lys Thr Val Tyr Thr Tyr Lys Arg Asn Ile Arg
180      185      190
Met Lys Leu His Met Asp Thr Arg Tyr Ser Pro Phe Leu Ser Leu Gln
195      200      205
Glu Val Glu Asn
210

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<210> 7192
 <211> 237
 <212> PRT
 <213> Enterobacter cloacae

<400> 7192

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Pro Pro Ile Val Phe Ser Asp Ala Thr Tyr Asn Phe Cys Thr Arg Leu
1      5      10      15
Lys Lys Gly Gly Phe Met Ser Ala Ser Ser Ser Gly Glu Glu Lys Val
20      25      30
Thr Trp Val Gly Tyr Leu Ala Phe Val Leu Thr Ile Val Phe Phe Ser
35      40      45
Gly Phe Phe Ala Lys Ser Thr Glu Trp Trp Arg Val Leu Asp Phe Thr
50      55      60
Val Leu Asn Gly Ser Phe Gly Pro Val Asn Gly Ala Leu Thr Phe Arg
65      70      75      80
Gly Glu Gly Gly Thr Gly Ala Lys Asp Gly Phe Leu Phe Ala Leu Glu
85      90      95
Leu Ala Pro Ser Val Ile Leu Ser Leu Gly Ile Ile Ala Val Thr Glu
100      105      110
Gly Leu Gly Gly Leu Arg Ala Ala Gln Gln Leu Met Thr Pro Ile Leu
115      120      125
Arg Pro Leu Leu Gly Val Pro Gly Ile Cys Ser Leu Ala Leu Ile Ala
130      135      140

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Asn Leu Gln Asn Thr Asp Ala Ala Ala Gly Met Thr Lys Glu Leu Thr
 145 150 155 160
 Asn Glu Gly Ala Ile Thr Asp His Glu Arg Ala Ile Phe Ala Thr Phe
 165 170 175
 Gln Thr Ser Gly Ser Ala Ile Ile Thr Asn Tyr Phe Ser Ser Gly Ala
 180 185 190
 Ala Leu Phe Thr Phe Ile Thr Val Pro Val Ile Thr Pro Leu Ala Val
 195 200 205
 Ile Leu Val Phe Lys Phe Val Gly Ala Asn Phe Leu Arg Leu Trp Ile
 210 215 220
 Ala His Met Glu Val Arg Cys Ala Gln Glu Glu Lys
 225 230 235

<210> 7193

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 7193

Cys Asn Tyr Ser Ser Glu Glu Ile Lys Met Asp Phe Ser Val Leu Glu
 1 5 10 15
 Pro His Leu Phe Arg Asn Ala Gln Leu Tyr Ala Pro Glu Asp Leu Gly
 20 25 30
 His Cys Asp Leu Leu Ile Ala Gly Gly Lys Ile Val Ala Val Glu Lys
 35 40 45
 Ala Gly His Ala Thr Met Arg Pro Asp Cys Pro Glu Ser Asp Leu Ala
 50 55 60
 Gly Ala Val Val Cys Pro Gly Phe Ile Asp Gln His Val His Leu Ile
 65 70 75 80
 Gly Gly Gly Gly Glu Ala Gly Pro His Thr Arg Thr Pro Glu Val Arg
 85 90 95
 Leu Ser Ala Leu Val Ala Ala Gly Ile Thr Ser Val Val Gly Leu Leu
 100 105 110
 Gly Thr Asp Gly Val Thr Arg His Pro Glu Ser Leu Leu Ala Lys Thr
 115 120 125
 Arg Ala Leu Glu His Glu Gly Ile Ser Ala Trp Met Leu Thr Gly Ala
 130 135 140
 Tyr Gly Leu Pro Ser Pro Thr Ile Thr Gly Ser Ile Glu Lys Asp Val
 145 150 155 160
 Ala Leu Ile Asp Lys Ile Ile Gly Val Lys Cys Ala Ile Ser Asp His
 165 170 175
 Arg Ser Ser Ala Pro Ala Asp Asp Gln Leu Ala Asn Met Ala Ala Gln
 180 185 190
 Ser Arg Val Gly Gly Leu Leu Gly Ala Lys Ala Gly Ile Ser Val Phe
 195 200 205
 His Leu Gly Asn Ser Pro Lys Leu Leu Glu Pro Leu Leu Asn Ile Leu
 210 215 220
 Asn Asn Ala Asp Val Pro Arg Thr Lys Leu Leu Pro Thr His Val Asn
 225 230 235 240
 Arg Ala Gln Ala Leu Phe His Ala Ala Leu Asp Tyr Ala Arg Glu Gly
 245 250 255
 Gly Tyr Ile Asp Ile Thr Thr Ser Ile Ser Glu Pro Ile Asp Ala Ala
 260 265 270
 Thr Ala Ile Ala Thr Ala Arg Asp Ala Gln Val Pro Phe Asn Arg Leu
 275 280 285
 Thr Leu Cys Ser Asp Gly Asn Gly Ser Gln Pro Asn Phe Asp Ala Asn
 290 295 300
 Gly Asn Leu Val Gly Ile Gly Val Ala Gly Phe Glu Ser Leu Leu Asp
 305 310 315 320
 Thr Leu Gln Gln Leu Val Gly Arg Tyr His Leu Pro Leu Glu Glu Ala
 325 330 335

Leu Leu Pro Phe Thr Arg Asn Val Ala Glu Phe Leu Gly Leu Glu His
 340 345 350
 Lys Gly Arg Ile Ala Pro Gly Cys Asp Ala Asp Phe Leu Val Leu Thr
 355 360 365
 Asp Asp Leu Lys Ile Arg Glu Val Trp Ala Lys Gly Arg Gln Met Val
 370 375 380
 Arg Glu Gly Val Val Cys Val Lys Gly Thr Phe Glu
 385 390 395

<210> 7194

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 7194

Ala Met Ala Leu Glu Ser Glu His Gly Thr Asp Ser Ala Phe Ser Ser
 1 5 10 15
 Ser Thr Ala Glu Ala Thr Ala Leu Ser Ile Pro Arg Phe Arg Ser Ile
 20 25 30
 Gly Phe Met Pro Ala Ala Thr Ala Phe Arg Pro Ser Val Met Ile Ala
 35 40 45
 Cys Ala Ser Thr Val Ala Val Val Val Pro Ser Pro Ala Ala Ser Phe
 50 55 60
 Ala Leu Glu Ala Thr Ser Phe Thr Ile Cys Ala Pro Met Phe Ser Asn
 65 70 75 80
 Leu Ser Ser Ser Ser Ile Ser Arg Ala Thr Glu Thr Pro Ser Leu Val
 85 90 95
 Met Val Gly Ala Pro Lys Asp Leu Ser Ser Thr Thr Leu Arg Pro Phe
 100 105 110
 Gly Pro Arg Val Thr Phe Thr Ala Ser Ala Ser Thr Phe Thr Pro Arg
 115 120 125
 Ser Ile Phe Thr Arg Ala Ser Leu Pro Asn Phe Thr Ser Leu Ala Ala
 130 135 140
 Met Phe Leu Phe Pro Gln Ile Arg Thr Val Phe Val Arg
 145 150 155

<210> 7195

<211> 439

<212> PRT

<213> Enterobacter cloacae

<400> 7195

Ala Arg Gln Val Phe Met Phe Gly Ala Glu Leu Val Ile Val Leu Leu
 1 5 10 15
 Ala Ile Tyr Leu Gly Ala Arg Leu Gly Gly Ile Gly Ile Gly Phe Ala
 20 25 30
 Gly Gly Leu Gly Val Leu Val Leu Thr Leu Ile Phe Gln Ile Lys Pro
 35 40 45
 Gly Ala Ile Pro Phe Asp Val Ile Glu Ile Ile Met Ala Val Ile Ala
 50 55 60
 Ala Ile Ala Ala Met Gln Val Ala Gly Gly Met Asp Tyr Leu Val Ser
 65 70 75 80
 Leu Ala Glu Arg Met Leu Arg Arg His Pro Lys Tyr Ile Thr Phe Leu
 85 90 95
 Ala Pro Leu Val Thr Trp Phe Met Thr Ile Leu Ala Gly Thr Gly His
 100 105 110
 Thr Ala Phe Ser Thr Leu Pro Val Ile Thr Glu Val Ala Lys Glu Gln
 115 120 125
 Gly Ile Arg Pro Ser Arg Pro Leu Ser Ile Ala Val Val Ala Ser Gln
 130 135 140
 Ile Ala Ile Thr Ala Ser Pro Ile Ser Ala Ala Val Val Phe Phe Ala

400> 7196																	
Arg	His	Val	Ala	Gly	Arg	Lys	Ser	Asp	Gly	Arg	Asp	Arg	Ala	Ala	Ser		
1				5					10					15			
Ala	Ser	Gly	Cys	Arg	Pro	Val	Ala	Lys	Met	Pro	Gly	Arg	Val	Arg	Thr		
			20					25					30				
Thr	His	Asn	Arg	Lys	Thr	Val	Arg	Val	Ser	Asp	Pro	Ala	Gly	Arg	Asp		
		35					40					45					
Thr	Val	Thr	Phe	Lys	Ile	Lys	Lys	His	Asn	Thr	Thr	Thr	Gln	Gln	Gln		
	50					55					60						
Ser	Arg	Gly	Thr	Pro	Met	Ser	Met	Ser	Ser	Ile	Pro	Ser	His	Ser	Pro		
65				70						75					80		
Ser	Gly	Lys	Leu	Tyr	Gly	Trp	Val	Glu	Arg	Ile	Gly	Asn	Lys	Val	Pro		
			85						90					95			
His	Pro	Phe	Leu	Leu	Phe	Ile	Tyr	Leu	Ile	Val	Ile	Leu	Met	Val	Ala		
			100					105					110				
Thr	Ala	Val	Leu	Ser	Ala	Phe	Glu	Val	Ser	Val	Arg	Ser	Pro	Ala	Asp		
		115					120					125					
Gly	Ser	Met	Val	Ala	Val	Lys	Asn	Leu	Leu	Ser	Val	Glu	Gly	Leu	His		

130	135	140
Trp Phe Leu Pro Asn Val	Ile Lys Asn Phe Ser	Gly Phe Ala Pro Leu
145	150	155
Gly Ala Ile Leu Ala Leu Val	Leu Gly Ala Gly Leu Ala Glu Arg Val	160
165	170	175
Gly Leu Leu Pro Ala Leu Met	Val Lys Met Ala Ser His Val Ser Ala	180
180	185	190
Arg Tyr Ala Ser Tyr Met Val	Leu Phe Ile Ala Phe Phe Ser His Ile	195
195	200	205
Ser Ser Asp Ala Ala Leu Val	Ile Met Pro Pro Met Gly Ala Leu Ile	210
210	215	220
Phe Leu Ala Val Gly Arg His	Pro Val Ala Gly Leu Leu Ser Ala Ile	225
225	230	235
Ala Gly Val Gly Cys Gly Phe Thr	Ala Asn Leu Leu Ile Val Thr Thr	240
245	250	255
Asp Val Leu Leu Ser Gly Ile	Ser Thr Glu Ala Ala Ser Thr Ile Asp	260
260	265	270
Ala Thr Met His Val Ser Val	Ile Asp Asn Trp Tyr Phe Met Ala Ser	275
275	280	285
Ser Val Ile Val Leu Thr Thr	Ile Val Gly Gly Leu Ile Thr Asp Lys Ile	290
290	295	300
Ile Glu Pro Arg Leu Gly Lys Trp	Glu Gly Arg Ser Asp Glu Lys Leu	305
305	310	315
Glu Thr Leu Ser Lys Glu Gln Gln	Phe Gly Leu Arg Val Ala Gly Ile	320
325	330	335
Val Ser Leu Ala Phe Ile Ala Val	Val Ala Leu Met Val Val Pro Glu	340
340	345	350
Asn Gly Val Leu Arg Asp Pro Ile	Lys His Thr Val Leu Pro Ser Pro	355
355	360	365
Phe Ile Gln Gly Ile Val Pro Leu	Ile Ile Leu Phe Phe Val Val	370
370	375	380
Ser Leu Ala Tyr Gly Ile Ala Thr	Gly Lys Ile Arg Arg Gln Gly Asp	385
390	395	400
Leu Pro His Leu Met Ile Glu Pro	Met Lys Glu Met Ala Gly Phe Ile	405
405	410	415
Val Met Val Phe Pro Leu Ala Gln	Phe Val Ala Met Phe Asn Trp Ser	420
420	425	430
Asn Met Gly Lys Phe Met Ala Val	Ser Leu Thr Asp Ala Leu Glu Ala	435
440	445	450
Ala Gly Leu Ser Gly Val Pro Ala	Phe Val Gly Leu Ala Leu Leu Ser	455
460	465	470
Ser Leu Leu Cys Met Phe Ile Ala	Ser Gly Ser Ala Ile Trp Ser Ile	475
480	485	490
Leu Ala Pro Ile Phe Val Pro Met	Phe Met Met Leu Gly Phe His Pro	495
500	505	510
Ala Phe Ala Gln Ile Leu Phe Arg	Val Ala Asp Ser Ser Val Ile Pro	515
520	525	530
Leu Ala Pro Val Ser Pro Phe Val	Pro Leu Phe Leu Gly Phe Leu Gln	535
540	545	550
Arg Tyr Arg Pro Glu Ala Lys Leu	Gly Thr Tyr Tyr Ser Leu Val Leu	555
560	565	570
Pro Tyr Pro Leu Ile Phe Leu Gly	Val Trp Leu Val Met Leu Val Ala	575
580	585	590
Trp Tyr Leu Val Gly Leu Pro Ile	Gly Pro Gly Val Tyr Pro Arg Leu	595
600	605	610
Asn		

<210> 7197

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7197

Gly Val Leu Met Leu Arg Leu Leu Glu Asp Lys Ile Ala Thr Pro Leu
 1 5 10 15
 Gly Pro Leu Trp Val Ile Ala Asp Glu Ala Phe Asn Leu Arg Ala Val
 20 25 30
 Glu Trp Glu Glu His Ser Asp Arg Met Val Glu Leu Leu Asn Ile His
 35 40 45
 Tyr Arg Ala Glu Gly Tyr Glu Arg Val Thr Ala Arg Asn Pro Gly Gly
 50 55 60
 Leu Ser Asp Lys Leu Thr Ala Tyr Phe Glu Gly Asp Leu Ser Ile Ile
 65 70 75 80
 Asn Thr Leu Pro Thr Ala Thr Ala Gly Thr Pro Phe Gln Arg Glu Val
 85 90 95
 Trp Gln Ala Leu Arg Asn Ile Pro Cys Gly Gln Val Met His Tyr Gly
 100 105 110
 Gln Leu Ala Glu Gln Leu Gly Arg Ala Gly Ala Ala Arg Ala Val Gly
 115 120 125
 Ala Ala Asn Gly Ser Asn Pro Val Ser Ile Val Val Pro Cys His Arg
 130 135 140
 Val Ile Gly Arg Asn Gly Thr Leu Thr Gly Tyr Ala Gly Gly Val Gln
 145 150 155 160
 Arg Lys Glu Trp Leu Leu Arg His Glu Gly Tyr Phe Leu Leu
 165 170 175

<210> 7198

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 7198

Gly Leu Ser Lys Pro Met Ile Pro Glu Lys Arg Ile Ile Arg Arg Ile
 1 5 10 15
 Gln Ser Gly Gly Cys Ala Ile His Cys Gln Asp Cys Ser Ile Ser Gln
 20 25 30
 Leu Cys Ile Pro Phe Thr Leu Asn Glu His Glu Leu Asp Gln Leu Asp
 35 40 45
 Asn Ile Ile Glu Arg Lys Lys Pro Ile Gln Lys Gly Gln Thr Leu Phe
 50 55 60
 Lys Ala Gly Asp Glu Leu Lys Ser Leu Tyr Ala Ile Arg Ser Gly Thr
 65 70 75 80
 Ile Lys Ser Tyr Thr Ile Thr Glu Gln Gly Asp Glu Gln Ile Thr Gly
 85 90 95
 Phe His Leu Ala Gly Asp Leu Val Gly Phe Asp Ala Ile Gly Ser Gly
 100 105 110
 His His Pro Ser Phe Ala Gln Ala Leu Glu Thr Ser Met Val Cys Glu
 115 120 125
 Ile Pro Phe Glu Thr Leu Asp Asp Leu Ser Gly Lys Met Pro Asn Leu
 130 135 140
 Arg Gln Gln Met Met Arg Leu Met Ser Gly Glu Ile Lys Gly Asp Gln
 145 150 155 160
 Asp Met Ile Leu Leu Ser Lys Lys Asn Ala Glu Glu Arg Leu Ala
 165 170 175
 Ala Phe Ile Tyr Asn Leu Ser Arg Arg Phe Ala Glu Arg Gly Phe Ser
 180 185 190
 Pro Arg Glu Phe Arg Leu Thr Met Thr Arg Gly Asp Ile Gly Asn Tyr
 195 200 205
 Leu Gly Leu Thr Val Glu Thr Ile Ser Arg Leu Leu Gly Arg Phe Gln
 210 215 220
 Lys Ser Gly Met Leu Ala Val Lys Gly Lys Tyr Ile Thr Ile Glu Asn

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<210> 7199
<211> 490
<212> PRT
<213> Enterobacter cloacae
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1	he	Pro	Val	Asp	5	la	Arg	Cys	Val	Met	Gln	Glu	Asn	Tyr	Ala	Phe	Ile
1	Ala	Asp	Ala	Ile	Asp	Thr	Arg	Cys	Gln	Thr	Phe	Thr	Asp	Ile	Ala	Asp	Ala
Asp	Ile	Trp	Asp	His	Pro	Glu	Thr	40	Ala	Glu	Gly	Phe	Thr	Leu	Thr	Arg	Ala
Glu	Arg	Leu	Ala	Ser	Ala	Leu	55	Ala	Glu	Gly	Ala	Gly	Phe	Thr	Leu	Thr	Arg
Glu	Ala	Gly	Gly	Ile	Pro	Asn	Ala	Phe	Ile	Ala	Ser	Tyr	Gly	Ser	Glu	Ala	Asp
65	Lys	Pro	Val	Ile	Ala	Leu	70	Ala	Gly	Glu	Tyr	Asp	Ala	Leu	Ala	Gly	Leu
Ser	Gln	Gln	Ala	His	Cys	Ala	Thr	Ala	Gln	Ser	Ala	Thr	Pro	Gly	Ala	Ala	Asp
Asn	Gly	His	Gly	Cys	Gly	His	Asn	Leu	Leu	Gly	Thr	Ala	Ala	Phe	Ala	Ala	Asp
Gly	Ala	Val	Ala	Val	Lys	Ser	Trp	Leu	Glu	Gln	His	Gly	Gly	Ser	Gly	Gly	Ala
Thr	Val	Arg	Phe	Tyr	Gly	Cys	Pro	Gly	Glu	Glu	Gly	Gly	Gly	Ser	Gly	Lys	Ala
145	Thr	Phe	Met	Val	Arg	Glu	Gly	Leu	Phe	Asp	Asp	Val	Asp	Ala	Gly	Val	Ala
Thr	Trp	His	Pro	Glu	Ala	Phe	Ala	Gly	Met	Phe	Asn	Val	Ser	Thr	Leu	Ala	Asp
Ala	Asn	Ile	Gln	Ala	Ala	Trp	Arg	Phe	Lys	Gly	Ile	Ala	Ala	His	Ala	Ala	Asp
Ala	Asn	Ser	Pro	His	Leu	Gly	Arg	Ser	Ala	Leu	Asp	Ala	Val	Thr	Leu	Ala	Asp
Met	Thr	Thr	Gly	Thr	Asn	Phe	Leu	Asn	Glu	His	Ile	Ile	Glu	Lys	Ala	Ala	Asp
225	Arg	Val	His	Trp	Ala	Ile	Thr	Asp	Thr	Gly	Ile	Ser	Pro	Asn	Val	Ala	Asp
Val	Gln	Ala	Gln	Ala	Glu	Val	Leu	Tyr	Leu	Ile	Arg	Ala	Pro	Glu	Met	Ala	Asp
Ala	Asp	Ala	Gln	Gln	Ile	Tyr	Ala	Arg	Ile	Glu	Lys	Ile	Ala	Gln	Gly	Ala	Asp
Ala	Ala	Met	Met	Thr	Glu	Thr	Thr	Val	Glu	Cys	Arg	Phe	Asp	Lys	Ala	Ala	Asp
Cys	Ser	Ser	Tyr	Leu	Pro	Asn	Arg	Thr	Leu	Glu	Ala	Ala	Met	Tyr	Arg	Ala	Asp
305	Ala	Leu	Gln	His	Tyr	Gly	Thr	Pro	Ala	Trp	Thr	Glu	Glu	Glu	Arg	Glu	Ala
Phe	Ala	Arg	Lys	Ile	Arg	Ala	Thr	Leu	Thr	Ala	Asn	Asp	Leu	Gln	Asn	Ala	Asp
Ser	Leu	Lys	Asn	Ile	Ala	Ala	Thr	Gly	Ala	Glu	Glu	Gly	Lys	Ala	Phe	Ala	Asp
Ala	Arg	Arg	His	Gln	Glu	Thr	Leu	Leu	Val	Asp	Glu	Val	Ala	Pro	Tyr	Ala	Asp
Ala	Ile	Thr	Asp	Asn	Val	Leu	Ala	Gly	Ser	Thr	Asp	Val	Gly	Asp	Val	Ala	Asp
385	Ser	Trp	Lys	Met	Pro	Val	Ala	Gln	Cys	Phe	Ser	Pro	Cys	Phe	Thr	Val	Ala

405 410 415
 Gly Thr Pro Leu His Thr Trp Gln Leu Val Ala Gln Gly Arg Thr Ser
 420 425 430
 Ile Ala His Lys Gly Met Leu Leu Ala Gly Lys Val Met Gly Ala Thr
 435 440 445
 Ala Leu His Leu Leu Gln Asp Ala Asp Leu Leu Arg Lys Cys Arg Glu
 450 455 460
 Glu Phe Glu Gln His Ile Thr Glu Lys Pro Tyr Glu Cys Pro Ile Pro
 465 470 475 480
 Gln Gly Val Thr Pro Ser Pro Leu Lys
 485 490

<210> 7200

<211> 573

<212> PRT

<213> *Enterobacter cloacae*

<400> 7200

Ile Arg Tyr Asp Asp Ser Ile Asp Val Thr Leu Pro Leu Leu Leu Arg
 1 5 10 15
 Met Thr Ala Met Leu Lys Asn Leu His Val Ile Thr Gly Ile Ile Phe
 20 25 30
 Ala Leu Thr Ile Phe Cys Leu Leu Gln Val Val Thr Gly Gly Leu Phe
 35 40 45
 Tyr Ser Ala Val Asn Asn Asp Arg His Asn Phe Gln Asn Ser Gly Leu
 50 55 60
 Leu Asn Ala Gln Gln Glu Ser Leu Ser Asp Ser Val Asn Thr Leu Val
 65 70 75 80
 Lys Thr Arg Val Thr Val Thr Arg Val Ala Ile Arg Tyr Leu Lys Asn
 85 90 95
 Gln Arg Asp Pro Ala Ser Leu Ala Ala Ile Asn Thr Leu Leu Gly Thr
 100 105 110
 Ala Asn Gly Ser Leu Ala Lys Ala Glu Asp Tyr Tyr Lys Asn Trp Gln
 115 120 125
 Ala Ile Pro Gln Val Lys Gly Gln His Ala Ala Leu Thr Glu Glu Met
 130 135 140
 Gln Lys Ala Trp Lys Gln Met His Glu Val Met Arg Leu Ser Ile Glu
 145 150 155 160
 Tyr Leu Arg Ala Asp Asn Tyr Gln Ala Tyr Gly Asp Leu Asp Ala Gln
 165 170 175
 Gln Ala Gln Asp Glu Met Glu Ala Val Tyr Thr Arg Trp Arg Ala Glu
 180 185 190
 Asn Asn Val Leu Leu Lys Ala Ala Glu Glu Asn Gln Ser Ser Phe
 195 200 205
 Thr Gln Met Gln Trp Thr Leu Ala Ala Ile Phe Leu Thr Val Ile Ala
 210 215 220
 Val Leu Val Val Ile Trp Gln Gly Leu Gln His Leu Leu Lys Pro
 225 230 235 240
 Leu Asn Ala Ile Met Asn His Ile Arg Thr Ile Ala Ser Gly Asp Leu
 245 250 255
 Thr Gln Asn Val Ala Ile Ala Gly Arg Asn Glu Met Gly Gln Leu Ala
 260 265 270
 Ala Gly Leu His Glu Met Gln Gln Ser Leu Val Ser Thr Val Ser Ala
 275 280 285
 Val Arg Gly Ser Thr Asp Ser Ile Tyr Thr Gly Ala Gly Glu Ile Ala
 290 295 300
 Ala Gly Ser Asn Asp Leu Ser Ala Arg Thr Glu Gln Gln Ala Ala Ser
 305 310 315 320
 Leu Glu Glu Thr Ala Ala Ser Met Glu Glu Leu Thr Ala Thr Val Lys
 325 330 335
 Gln Asn Ser Asp Asn Ala Arg Gln Ala Thr Leu Leu Ala Lys Asn Ala

340 345 350
 Ser Glu Thr Ala Ala Arg Gly Gly Gln Val Val Asp Asn Val Val Arg
 355 360 365
 Thr Met Asn Asp Ile Ala Asp Ser Ser Gln Gln Ile Ala His Ile Thr
 370 375 380
 Gly Val Ile Asp Ser Ile Ala Phe Gln Thr Asn Ile Leu Ala Leu Asn
 385 390 395 400
 Ala Ala Val Glu Ala Ala Arg Ala Gly Glu Gln Gly Arg Gly Phe Ala
 405 410 415
 Val Val Ala Gly Glu Val Arg Thr Leu Ala Ser Arg Ser Ala Gln Ala
 420 425 430
 Ala Lys Glu Ile Lys Gly Leu Ile Glu Asn Ser Val Ser Arg Val Asn
 435 440 445
 Thr Gly Ser Glu Gln Val Ser Glu Ala Gly Ala Thr Met Lys Glu Ile
 450 455 460
 Val Ala Ala Val Thr Arg Val Thr Asp Ile Met Ala Glu Ile Ser Ser
 465 470 475 480
 Ala Ser Asp Glu Gln Ser Arg Gly Ile Glu Gln Val Ser Leu Ala Val
 485 490 495
 Ser Gln Met Asp Ser Val Thr Gln Gln Asn Ala Ala Leu Val Gln Glu
 500 505 510
 Ser Ala Thr Ala Ala Ala Ala Leu Glu Asp Gln Ser Glu Gln Leu Arg
 515 520 525
 Gln Ala Val Ala Ala Phe Arg Leu Asn Ala Gln Ala Ser Pro Ala Ala
 530 535 540
 Arg Pro Lys Asn Val Lys Thr Pro Val Leu Leu Arg Pro Ser Ala Ala
 545 550 555 560
 Gly Ala Asn Thr Ala Asp Ala Asn Trp Glu Thr Phe
 565 570

<210> 7201

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 7201

Ser Ser Ser His Ile Leu Met Met Thr Gly Lys Asp Met Asn Ala Leu
 1 5 10 15
 Ala Gln Tyr Ile Gln Thr Leu Ala Pro Gln Leu Ser Ala Trp Arg Arg
 20 25 30
 Asp Phe His His Phe Ala Glu Ser Gly Trp Val Glu Phe Arg Thr Ala
 35 40 45
 Ala Lys Val Ala Glu Ile Leu Ala Ser Leu Gly Tyr Glu Leu Ala Met
 50 55 60
 Gly Arg Asp Val Val Asp Ala Glu Ser Arg Met Gly Leu Pro Asp Asp
 65 70 75 80
 Ala Thr Leu Ser Arg Glu Phe Ala Arg Ala Arg Ala Gln Gly Ala Pro
 85 90 95
 Glu Lys Trp Leu Ala Pro Phe Glu Gly Gly Phe Thr Gly Ile Val Ala
 100 105 110
 Thr Leu Asn Thr Gly Arg Pro Gly Thr Leu Ala Phe Arg Val Asp
 115 120 125
 Met Asp Ala Leu Asp Leu Ser Glu Ala Leu Asp Asp Ser His Arg Pro
 130 135 140
 Phe Arg Asp Gly Phe Ala Ser Cys Asn Pro Gly Met Met His Ala Cys
 145 150 155 160
 Gly His Asp Gly His Thr Thr Ile Gly Leu Gly Leu Ala Gln Val Leu
 165 170 175
 Lys Gln His Glu Ala Gln Leu Asn Gly Thr Ile Lys Leu Ile Phe Gln
 180 185 190
 Pro Ala Glu Glu Gly Thr Arg Gly Ala Arg Ala Met Val Ala Ala Gly

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195          200          205
Ala Leu Asp Gly Val Asp Tyr Phe Thr Ala Ile His Ile Gly Thr Gly
210          215          220
Val Pro Glu Gly Thr Val Ile Cys Gly Ser Asp Asn Phe Met Ala Thr
225          230          235          240
Thr Lys Phe Asp Val Arg Phe Thr Gly Val Ala Ala His Ala Gly Gly
245          250          255
Lys Pro Glu Glu Gly Arg Asn Ala Leu Leu Ala Ala Ala Gln Ala Ala
260          265          270
Ile Ala Leu His Gly Ile Ala Pro His Ser Glu Gly Ala Ser Arg Val
275          280          285
Asn Val Gly Val Met Gln Ala Gly Ser Gly Arg Asn Val Val Pro Ala
290          295          300
Asp Ala Leu Leu Lys Val Glu Thr Arg Gly Glu Ser Glu Ala Ile Asn
305          310          315          320
Gln Tyr Val Phe Glu Arg Ala Gln Ala Val Ile Thr Gly Ala Ala Ala
325          330          335
Leu Tyr Gly Val Thr Thr Gly Ile Asn Leu Met Gly Ala Ala Thr Ser
340          345          350
Ser Val Pro Ser Pro Ala Trp Val Asp Tyr Leu Arg Glu Gln Ala Ser
355          360          365
Gln Val Pro Gly Val Thr His Ala Ile Asn Lys Val Lys Ala Pro Ala
370          375          380
Gly Ser Glu Asp Ala Thr Leu Met Met Ala Arg Val Gln Gln Asn Gly
385          390          395          400
Gly Met Ala Ser Tyr Met Val Phe Gly Thr Gln Leu Ser Ala Gly His
405          410          415
His Asn Glu Lys Phe Asp Phe Asp Glu Gln Val Met Asn Val Ala Ile
420          425          430
Glu Thr Leu Ala Arg Thr Ala Leu Asn Phe Pro Trp Thr Arg Gly Val
435          440          445

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<210> 7202

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 7202

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Val Thr Leu Leu Leu Thr Asp Cys Gly Asp Ser Ser Lys Glu Thr Cys
1          5          10          15
Met Ala Lys Tyr Gln Asn Met Leu Val Ala Ile Asp Pro Asn Gln Asp
20          25          30
Asp Gln Pro Ala Leu Arg Arg Ala Val Tyr Leu His Gln Arg Ile Gly
35          40          45
Gly Lys Ile Lys Ala Phe Leu Pro Ile Tyr Asp Phe Ser Tyr Glu Met
50          55          60
Thr Thr Leu Leu Ser Pro Asp Glu Arg Thr Ala Met Arg Gln Gly Val
65          70          75          80
Ile Ser Gln Arg Thr Ala Trp Ile Arg Glu Gln Ala Lys Tyr Tyr Leu
85          90          95
Glu Ala Gly Val Pro Ile Asp Ile Lys Val Val Trp His Asn Arg Pro
100          105          110
Phe Glu Ala Ile Ile Gln Glu Val Val Ala Gly Gly His Asp Leu Leu
115          120          125
Leu Lys Met Ala His Gln His Asp Lys Leu Glu Ser Val Ile Phe Thr
130          135          140
Pro Thr Asp Trp His Leu Leu Arg Lys Cys Pro Cys Pro Val Trp Met
145          150          155          160
Val Lys Asp Gln Pro Trp Pro Glu Gly Gly Lys Ala Val Val Ala Val

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          165          170          175
Asn Leu Ala Ser Glu Glu Asp Tyr His Asn Ser Leu Asn Glu Lys Leu
          180          185          190
Val Lys Glu Thr Leu Gln Leu Ala Asp Gln Val Asn His Thr Glu Val
          195          200          205
His Leu Val Gly Ala Tyr Pro Val Thr Pro Ile Asn Ile Ala Ile Glu
          210          215          220
Leu Pro Glu Phe Asp Pro Ser Val Tyr Asn Asp Ala Ile Arg Gly Gln
          225          230          235          240
His Leu Leu Ala Met Lys Ala Leu Arg Gln Lys Phe Ser Ile Asp Glu
          245          250          255
Asn Met Thr His Val Glu Lys Gly Leu Pro Glu Glu Val Ile Pro Asp
          260          265          270
Leu Ala Glu His Leu Gln Ala Gly Ile Val Val Leu Gly Thr Ile Gly
          275          280          285
Arg Thr Gly Ile Ser Ala Ala Phe Leu Gly Asn Thr Ala Glu Gln Val
          290          295          300
Ile Asp His Leu Arg Cys Asp Leu Leu Val Ile Lys Pro Asp Gln Tyr
          305          310          315          320
Gln Thr Pro Val Glu Leu Asp Asp Glu Glu Asp Asp
          325          330

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<210> 7203

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 7203

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Lys Arg Asn His Leu Gly Ile Ala Gly Leu Ala Ile Ala Leu Ile Ala
1          5          10          15
Thr Ile Phe Gly Pro Asp Pro Gly Asn Val Ala Trp Ile Leu Val Ala
          20          25          30
Met Ile Ile Gly Gly Ala Ile Gly Ile Arg Leu Ala Lys Arg Val Glu
          35          40          45
Met Thr Glu Met Pro Glu Leu Val Ala Ile Leu His Ser Phe Val Gly
          50          55          60
Leu Ala Ala Val Leu Val Gly Phe Asn Ser Tyr Leu Tyr His Glu Pro
          65          70          75          80
Gly Leu Glu Pro Ile Leu Val Asn Ile His Leu Thr Glu Val Phe Leu
          85          90          95
Gly Ile Phe Ile Gly Ala Val Thr Phe Thr Gly Ser Ile Val Ala Phe
          100          105          110
Gly Lys Leu Arg Gly Lys Ile Ser Ser Lys Pro Leu Met Leu Pro Asn
          115          120          125
Arg His Lys Leu Asn Leu Ala Ala Leu Val Val Ser Phe Val Leu Leu
          130          135          140
Val Val Phe Val Arg Thr Glu Ser Val Gly Leu Gln Val Leu Ala Leu
          145          150          155          160
Leu Val Met Thr Ile Ile Ala Leu Ala Phe Gly Trp His Leu Val Ala
          165          170          175
Ser Ile Gly Gly Ala Asp Met Pro Val Val Val Ser Met Leu Asn Ser
          180          185          190
Tyr Ser Gly Trp Ala Ala Ala Ala Gly Phe Met Leu Ser Asn Asp
          195          200          205
Leu Leu Ile Val Thr Gly Ala Leu Val Gly Ser Ser Gly Ala Ile Leu
          210          215          220
Ser Tyr Ile Met Cys Lys Ala Met Asn Arg Ser Phe Ile Ser Val Ile
          225          230          235          240
Ala Gly Gly Phe Gly Ser Asp Gly Ser Ser Thr Gly Ser Asp Glu Glu
          245          250          255
Val Gly Glu His Arg Glu Ile Ser Ala Glu Asp Thr Ala Glu Met Leu

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260 265 270
 Lys Asn Ser Ser His Ser Val Ile Ile Thr Pro Gly Tyr Gly Met Ala Val
 275 280 285
 Ala Gln Ala Gln Tyr Pro Val Ala Glu Ile Thr Glu Lys Leu Arg Ala
 290 295 300
 Arg Gly Ile Lys Val Arg Phe Gly Ile His Pro Val Ala Gly Arg Leu
 305 310 315 320
 Pro Gly His Met Asn Val Leu Leu Ala Glu Ala Lys Val Pro Tyr Asp
 325 330 335
 Ile Val Leu Glu Met Asp Glu Ile Asn Asp Asp Phe Ala Asp Thr Asp
 340 345 350
 Thr Val Leu Val Ile Gly Ala Asn Asp Thr Val Asn Pro Ala Ala Gln
 355 360 365
 Asp Asp Pro Arg Ser Pro Ile Ala Gly Met Pro Val Leu Glu Val Trp
 370 375 380
 Lys Ala Gln Asn Val Ile Val Phe Lys Arg Ser Met Asn Thr Gly Tyr
 385 390 395 400
 Ala Gly Val Gln Asn Pro Leu Phe Phe Lys Asp Asn Thr His Met Leu
 405 410 415
 Phe Gly Asp Ala Lys Ala Ser Val Asp Ala Ile Leu Lys Ala Leu
 420 425 430

<210> 7204

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 7204

Ile Arg Ile Ile Phe Met Arg Lys Val Ser Met Ser Ser Ile Asp Lys
 1 5 10 15
 Ser Gly Thr Phe Thr Leu Gly Thr Arg Thr Val Lys Arg Phe Gly Tyr
 20 25 30
 Gly Ala Met Gln Leu Ala Gly Pro Gly Val Phe Gly Pro Pro Lys Asp
 35 40 45
 Lys Asn Ala Ala Leu Ala Val Leu Arg Glu Ala Val Ala Ser Gly Val
 50 55 60
 Asn His Ile Asp Thr Ser Asp Phe Tyr Gly Pro His Val Thr Asn Gln
 65 70 75 80
 Leu Ile Cys Glu Ala Leu His Pro Tyr Arg Asp Asp Leu Thr Ile Val
 85 90 95
 Thr Lys Ile Gly Ala Arg Arg Gly Glu Asp Ala Ser Trp Leu Pro Ala
 100 105 110
 Phe Ser Ala Gln Glu Leu Thr Gln Ala Val His Asp Asn Leu Arg Asn
 115 120 125
 Leu Lys Arg Asp Val Leu Asp Val Val Asn Leu Arg Ile Met Phe Ser
 130 135 140
 Ala His Gly Pro Ala Glu Gly Ser Ile Ala Ala Pro Leu Ser Thr Leu
 145 150 155 160
 Ala Glu Leu Gln Gln Gln Gly Leu Val Arg His Ile Gly Leu Ser Asn
 165 170 175
 Val Thr Ala Ser Gln Val Ala Glu Ala Gln Lys Met Val Ser Val Val
 180 185 190
 Cys Val Gln Asn Met Tyr Asn Val Val Asn Arg Gly Asp Asp Val Leu
 195 200 205
 Val Asp Ser Leu Ala Gln Gln Gly Ile Ala Trp Val Pro Phe Phe Pro
 210 215 220
 Leu Gly Gly Phe Thr Pro Leu Gln Ser Ser Gly Leu Gln Ala Val Ala
 225 230 235 240
 Asp Ser Leu Gly Ala Thr Pro Met Gln Val Ala Leu Ala Trp Leu Leu
 245 250 255
 Gln Arg Ser Pro Asn Ile Leu Leu Ile Pro Gly Thr Ser Ser Val Ala

260 265 270
 His Leu Arg Glu Asn Leu Ala Ala Val Asp Leu Val Leu Pro Pro Glu
 275 280 285
 Ala Leu Glu Thr Leu Asn Ser Leu Val Gly
 290 295

<210> 7205

<211> 410

<212> PRT

<213> Enterobacter cloacae

<400> 7205

Lys Arg Cys Asn Phe Ala His Pro Asp Lys Pro Pro Pro Gly Ala Val
 1 5 10 15
 Phe Leu Phe Leu Arg Pro Ala Phe Leu Leu Cys Leu Tyr Phe Thr Leu
 20 25 30
 Cys Val Ile Arg Gly Gly Val Met Arg Phe Leu Ser Arg Phe Asp Ile
 35 40 45
 Ile Glu Leu Met Met Thr Pro Ser Phe Trp Ile Gly Val Ala Thr Val
 50 55 60
 Val Phe Val Thr Leu Leu Val Tyr Trp Leu Leu Thr Arg Leu Ile Ala
 65 70 75 80
 Phe Val Lys Lys Gly Ile Thr Thr Trp Gly Asp Lys His Pro Ser Thr
 85 90 95
 Asn Arg Met Arg Phe Ile Leu Thr Asp Met Leu Asn Arg Thr Ser Arg
 100 105 110
 Val Leu Leu Phe Val Val Ala Leu Leu Phe Ser Leu Arg Phe Val Asp
 115 120 125
 Leu Pro Asp His Leu Phe Gly Thr Val Ser His Ala Trp Phe Leu Val
 130 135 140
 Phe Ala Ile Gln Val Ala Leu Trp Met Asp Gln Gly Val Val Ser Trp
 145 150 155 160
 Leu Arg His Val Met Leu Ala Pro Gly Ser His Lys Asn Pro Val Thr
 165 170 175
 Leu Val Ile Thr Gly Leu Ile Leu Arg Ala Ile Val Trp Ser Val Met
 180 185 190
 Leu Leu Ser Ile Leu Ala Asn Ala Gly Val Asn Ile Thr Ala Leu Val
 195 200 205
 Ala Ser Leu Gly Val Gly Gly Ile Ala Ile Ala Leu Ala Val Gln Thr
 210 215 220
 Ile Leu Ser Asp Val Phe Ala Ser Leu Ser Ile Gly Phe Asp Lys Pro
 225 230 235 240
 Phe Glu Ile Gly Asp Phe Val Val Phe Asn Asp Val Ala Gly Thr Val
 245 250 255
 Glu His Ile Gly Leu Lys Thr Thr Arg Ile Arg Ser Leu Ser Gly Glu
 260 265 270
 Gln Ile Val Cys Gly Asn Ala Ile Leu Leu Gln Gln Thr Leu His Asn
 275 280 285
 Tyr Lys Arg Met Gln Thr Arg Arg Ile Val Phe Thr Phe Gly Val Ala
 290 295 300
 Ser Asp Thr Ala Pro Glu Lys Leu Arg Ser Val Gly Glu Met Val Lys
 305 310 315 320
 Gln Ile Ile Thr Asp Val Gly Glu Thr Lys Phe Asp Arg Ala His Phe
 325 330 335
 Leu Gly Phe Asp Arg Asp Arg Leu Thr Phe Glu Val Val His Ile Val
 340 345 350
 Asn Thr Ala Asp Tyr Asn Lys Tyr Met Asp Ile Gln Gln Glu Ile Asn
 355 360 365
 Ile Arg Ile Leu Glu Glu Leu Asn Gln Gln Glu Ile Lys Leu Ala Leu
 370 375 380
 Pro Ser Met Val Leu His Ala Pro Trp Met Asn Ala Gly Asp Glu Ala

385 390 395 400
Ser Ala Gln Arg Leu Ser Glu Ala Gln
 405 410

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<210> 7206
<211> 309
<212> PRT
<213> Enterobacter cloacae
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[illegible]

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<210> 7207
<211> 217
<212> PRT
<213> Enterobacter cloacae
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<400> 7207
 Ala Ile Ile Cys Thr Arg Ala Arg Met Ile Glu Thr Arg Asn Gly Arg
 1 5 10 15
 Arg Tyr Ser Thr Ser Leu Arg Cys Ser Arg Arg Ile Ser Met Asn Pro
 20 30

Asp Asp Lys Ser Leu Phe Leu Asp Ala Met Glu Asp Val Gln Pro Leu
 35 40 45
 Lys Arg Cys Ala Asp Ile His Trp Gln Gln Ser Arg Asn Thr Arg Ala
 50 55 60
 Arg Gln Glu Ile Asp Thr Glu Gln Leu Asp Asn Phe Leu Thr Leu Gly
 65 70 75 80
 Phe Leu Glu Leu Leu Pro Leu Asp Glu Pro Leu Met Phe Gln Arg Glu
 85 90 95
 Gly Val Gln Gln Gly Val Phe Asp Lys Leu Arg Ser Gly Lys Tyr Ser
 100 105 110
 Arg Gln Ala Ser Leu Thr Leu Leu Arg Gln Pro Ala Glu Gln Cys Arg
 115 120 125
 Gln Leu Val Tyr Ser Phe Ile Arg Gln Ala Gly Arg Asp Gly Leu Arg
 130 135 140
 Asn Leu Ile Ile Val His Gly Lys Gly Arg Glu Gln Gln Ser His Pro
 145 150 155 160
 Asn Val Val Arg Ser Tyr Leu Ala Arg Trp Leu Thr Glu Phe Asp Glu
 165 170 175
 Val Gln Ala Phe Cys Glu Ala Gln Pro His His Gly Gly Ser Gly Ala
 180 185 190
 Cys Tyr Val Ser Leu Arg Lys Ser Glu Asp Ala Lys Arg Asp Asn Trp
 195 200 205
 Glu Arg His Ala Lys Arg Ser Arg
 210 215

<210> 7208

<211> 470

<212> PRT

<213> Enterobacter cloacae

<400> 7208

Ile Met Thr Leu Thr Ser Arg Trp Pro Ala Val Leu Gln Ala Val Met
 1 5 10 15
 Gln Gly Gln Pro Arg Ala Leu Ala Asp Ser His Tyr Pro Gln Trp His
 20 25 30
 Pro Ala Pro Val Thr Gly Leu Met Asn Asp Pro Asn Gly Phe Ile Trp
 35 40 45
 Phe Ala Gly Arg Tyr His Leu Phe Tyr Gln Trp Asn Pro Leu Gly Cys
 50 55 60
 Asn His Arg Tyr Lys Cys Trp Gly His Trp Ser Ser Ala Asp Leu Val
 65 70 75 80
 His Trp Gln His Glu Pro Met Ala Leu Met Pro Asp Glu Glu Tyr Asp
 85 90 95
 Arg Asn Gly Cys Tyr Ser Gly Ser Ala Val Asp Asn Asn Gly Val Leu
 100 105 110
 Thr Leu Cys Tyr Thr Gly Asn Val Lys Phe Asp Asp Gly Gly Arg Thr
 115 120 125
 Ala Trp Gln Cys Leu Ala Val Gln Asn Asp Asp Gly Thr Phe Ala Lys
 130 135 140
 Leu Gly Pro Val Leu Pro Leu Pro Asp Gly Tyr Thr Gly His Val Arg
 145 150 155 160
 Asp Pro Lys Val Trp Arg His Asp Gly Leu Trp Tyr Met Val Leu Gly
 165 170 175
 Ala Gln Asp Arg His Lys Arg Gly Lys Val Leu Leu Phe Thr Ser Ala
 180 185 190
 Asp Leu His Thr Trp Ala Ser Cys Gly Glu Ile Ala Gly His Gly Val
 195 200 205
 Asn Gly Leu Thr Asp Ala Gly Tyr Met Trp Glu Cys Pro Asp Leu Phe
 210 215 220
 Glu Leu Asp Gly Thr His Val Leu Ile Tyr Cys Pro Gln Gly Leu Ala
 225 230 235 240

Arg Glu Pro His Arg Tyr Leu Asn Thr Tyr Pro Ala Val Trp Met Ser
 245 250 255
 Gly Ala Phe Asp Tyr Gln Thr Pro Ala Phe Thr His Gly Glu Leu His
 260 265 270
 Glu Leu Asp Ala Gly Phe Glu Phe Tyr Ala Pro Gln Thr Thr Val Ala
 275 280 285
 Glu Asp Gly Arg Arg Ile Leu Ile Gly Trp Met Gly Val Pro Asp Gly
 290 295 300
 Glu Glu Met Leu Gln Pro Thr Arg Ala His Gly Trp Ile His Gln Met
 305 310 315 320
 Thr Cys Pro Arg Glu Leu Arg Tyr Arg Asp Gly Lys Leu Trp Gln Thr
 325 330 335
 Pro Val Arg Glu Leu Glu Thr Leu Arg Glu Asp Glu His His Trp Gln
 340 345 350
 Gly Arg Ala Ser Asp Ala Pro Val Leu Ala Gly Ala Arg Leu Glu Phe
 355 360 365
 Glu Leu Ser Ala Ser Cys Val Asn Val Asp Phe Ala Gly Ala Leu Arg
 370 375 380
 Leu Ile Val Asp Asp Ala Gly Ile Arg Leu Glu Arg Ala Ser Leu Lys
 385 390 395 400
 Thr Ala Asp Thr Leu Thr Arg Tyr Trp Gln Gly Thr Val His His Leu
 405 410 415
 Arg Val Leu Cys Asp Arg Ser Ser Val Glu Ile Phe Ile Asn His Gly
 420 425 430
 Glu Gly Val Met Ser Ser Arg Tyr Phe Pro Asp His Pro Ala Gln Val
 435 440 445
 Arg Phe Glu Gly Ala Ser Asp Ile Thr Leu Arg Tyr Trp Ser Leu Arg
 450 455 460
 Ser Cys Met Ile Glu
 465 470

<210> 7209

<211> 534

<212> PRT

<213> *Enterobacter cloacae*

<400> 7209

Arg Leu Asp Ser Ala Asp Asn Gln Arg Glu Ile Ile Ser Leu Arg Cys
 1 5 10 15
 Val Met Ser Leu Lys Lys Ser Ser Leu Ile Ile Leu Phe Ser Leu Leu
 20 25 30
 Phe Phe Phe Val Ala Ser Thr Ile Thr Ser Val Gly Leu Ile Ile Lys
 35 40 45
 Ser Asn Thr Ser Leu Asp Asn Val Asn Lys Glu Ile Gln Val Val Leu
 50 55 60
 Ser Ile Ile Asp Pro Ile Asn His Ser Arg Thr Leu Arg Val Arg Val
 65 70 75 80
 Met Glu Tyr Val Lys Met Val Glu Ala Gly Asp Ala Thr Asp Pro Ser
 85 90 95
 Ala Lys Leu Ala Ser Val Lys Glu Ala Leu Thr Lys Ala Asp Ser Ala
 100 105 110
 Phe Ser Ala Phe Met Ala Ser Pro Arg Leu Gln Glu Glu Ala Pro Leu
 115 120 125
 Val Thr Ala Tyr Gln Glu Ala Trp Gln Asn Tyr Arg Asn Gln Gly Leu
 130 135 140
 Ala Pro Leu Ile Ala Ala Ala Ala His Asp Val Ser Arg Phe Asn
 145 150 155 160
 Ala Leu Ile Pro Val Val Ser Gln Leu Asp Arg Gln Tyr Glu Ile Val
 165 170 175
 Leu Asp Gln Val Leu Ser Val His Gln Lys Tyr Ala Lys Thr Leu Asn
 180 185 190

Glu Glu Ala Ser His Asp Phe Val Ser Gly Leu Val Ile Ile Ala Ser
 195 200 205
 Ile Ala Val Leu Phe Val Val Val Ile Phe Ala Val Ser Leu Leu Met
 210 215 220
 Lys Arg Val Val Phe Ala Pro Val Asn Leu Ala Arg Glu His Cys Arg
 225 230 235 240
 Gln Ile Ala Ala Gly Lys Leu Asp Val Pro Val Pro Ile Lys Arg Asp
 245 250 255
 Ser Gly Asn Glu Ile Asp His Leu Met Ser Ser Met Glu Gln Met Arg
 260 265 270
 Gln Ala Leu Leu Ser Thr Ile Ser Gln Val Arg Asp Ala Ser Gln Thr
 275 280 285
 Val Thr His Ala Ala Gln Glu Ile Ala Ser Gly Asn Ile Asp Leu Ala
 290 295 300
 Ser Arg Thr Glu Gln Gln Ala Ser Ala Leu Thr Gln Thr Ala Ala Ser
 305 310 315 320
 Met Glu Glu Leu Ser Ala Thr Val Ala Asn Asn Thr Asp Asn Val Phe
 325 330 335
 Gln Ala Gly Lys Leu Val Gln Asp Ala Val Lys Asn Ala His Thr Gly
 340 345 350
 Glu Ala Val Thr Arg Glu Val Ile Glu Thr Met Ser Thr Ile Ala Ser
 355 360 365
 Asn Ser Lys Arg Ile Glu Asp Ile Thr Ser Val Ile Asn Ser Ile Ala
 370 375 380
 Phe Gln Thr Asn Ile Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg
 385 390 395 400
 Ala Gly Ala Gln Gly Arg Gly Phe Ala Val Val Ala Ser Glu Val Arg
 405 410 415
 Thr Leu Ala Gln Lys Ser Ala Val Ala Lys Asp Ile Glu Ser Leu
 420 425 430
 Ile Ala Gln Ser Val Ser Ser Val Lys Asn Gly Ala Glu Leu Val Asn
 435 440 445
 Arg Ser Gly Glu Val Ile Asp Ser Ile Ile Ser Ser Val Asn Lys Val
 450 455 460
 His Met Leu Met Glu Gln Ile Ser Val Ala Ser Glu Glu Gln Ser Arg
 465 470 475 480
 Gly Ile Gly Gln Val Gly Gln Ala Val Thr Glu Met Asp Gly Val Thr
 485 490 495
 Gln Gln Asn Ala Ala Leu Val Gln Gln Ser Ala Ala Ala Ala Ser
 500 505 510
 Leu Glu Glu Gln Ala Gln Gln Leu Ser Gln Ser Ile Ser Arg Phe Ser
 515 520 525
 Leu Pro Ala Thr Ala
 530

<210> 7210

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 7210

Glu Arg Val Ser Phe Gln Pro Arg Gly Glu Asp Leu Ala Gly Thr Gly
 1 5 10 15
 Gly Gly Val Tyr Asp Val Lys Trp Asn Asp Thr Leu Arg Ser Asn Phe
 20 25 30
 Ser Leu Tyr Gly Arg Asn Phe Gly Ser Glu Glu Glu Ile Asp Asn Asn
 35 40 45
 Val Gln Asn Tyr Ile Leu Ser Met Asn His Phe Ala Gly Pro Val Gln
 50 55 60
 Met Met Val Ser Gly Leu Arg Ala Lys Asp Asn Asp Asp Arg Lys Asp
 65 70 75 80

Ser Asn Gly Asp Pro Ile Lys Thr Asp Ala Ala Asn Asn Gly Val His
 85 90 95
 Ala Leu Val Gly Leu His Asn Glu Ser Phe Tyr Gly Leu Arg Glu Gly
 100 105 110
 Ser Ala Lys Thr Ala Leu Leu Tyr Gly His Gly Leu Gly Ala Glu Val
 115 120 125
 Lys Ser Ile Gly Ser Asp Gly Ala Leu Leu Ser Glu Ala Asp Thr Trp
 130 135 140
 Arg Phe Ala Ser Tyr Gly Val Thr Pro Leu Gly Gly Trp His Ile
 145 150 155 160
 Ala Pro Ala Val Leu Ala Gln Ser Ser Lys Asp Arg Tyr Val Lys Gly
 165 170 175
 Asp Ser Tyr Glu Trp Val Thr Leu Asn Thr Arg Leu Ile Lys Glu Val
 180 185 190
 Thr Gln Asn Phe Ala Leu Ala Phe Glu Gly Ser Tyr Gln Tyr Met Asp
 195 200 205
 Leu Ser Pro Glu Gly Tyr Lys Asp Arg Asn Ala Val Asn Gly Ser Phe
 210 215 220
 Tyr Lys Leu Thr Phe Ala Pro Thr Leu Lys Ala Gly Lys Ile Gly Asp
 225 230 235 240
 Phe Phe Ser Arg Pro Glu Leu Arg Leu Phe Ala Thr Trp Met Asp Trp
 245 250 255
 Ser Asn Lys Leu Asp Asn Tyr Ala Ser Asp Asp Ala Phe Gly Ser Thr
 260 265 270
 Gly Phe Asn Ala Gly Gly Glu Trp Asn Phe Gly Val Gln Met Glu Thr
 275 280 285
 Trp Phe
 290

<210> 7211

<211> 479

<212> PRT

<213> Enterobacter cloacae

<400> 7211

Pro Phe Thr Leu Pro His Arg Gly Gly Val Ser Asn Thr Ile Lys Arg
 1 5 10 15
 Gly Gln Glu Glu Val Ser Met Asp Phe Asn His Ile Ala Arg Glu Leu
 20 25 30
 Ile Pro Leu Leu Gly Gly Lys Glu Asn Ile Ala Ser Ala His Cys
 35 40 45
 Ala Thr Arg Leu Arg Leu Val Leu Val Asp Asp Ala Leu Ala Asp Gln
 50 55 60
 Gln Ala Ile Gly Lys Val Glu Gly Val Lys Gly Cys Phe Arg Asn Ala
 65 70 75 80
 Gly Gln Met Gln Val Ile Phe Gly Thr Gly Val Val Asn Lys Val Tyr
 85 90 95
 Ala Ala Phe Ile Gln Ala Ala Gly Ile Ser Glu Ser Ser Lys Ser Glu
 100 105 110
 Ala Ala Asp Ile Ala Ala Arg Lys Leu Asn Pro Phe Gln Arg Ile Ala
 115 120 125
 Arg Leu Leu Ser Asn Ile Phe Val Pro Ile Ile Pro Ala Ile Val Ala
 130 135 140
 Ser Gly Leu Leu Met Gly Leu Leu Gly Met Val Lys Thr Tyr Gly Trp
 145 150 155 160
 Val Asn Pro Asp Asn Ala Leu Tyr Ile Met Leu Asp Met Cys Ser Ser
 165 170 175
 Ala Ala Phe Ile Ile Leu Pro Ile Leu Ile Gly Phe Thr Ala Ala Arg
 180 185 190
 Glu Phe Gly Gly Asn Pro Tyr Leu Gly Ala Thr Leu Gly Ile Leu
 195 200 205

Thr His Pro Ala Leu Thr Asn Ala Trp Gly Val Ala Ser Gly Phe His
 210 215 220
 Thr Met Asn Phe Phe Gly Leu Glu Ile Ala Met Ile Gly Tyr Gln Gly
 225 230 235 240
 Thr Val Phe Pro Val Leu Leu Ala Val Trp Phe Met Ser Ile Val Glu
 245 250 255
 Lys Gln Leu Arg Arg Ala Ile Pro Asp Ala Leu Asp Leu Ile Leu Thr
 260 265 270
 Pro Phe Leu Thr Val Ile Ile Ser Gly Phe Ile Ala Leu Leu Ile Ile
 275 280 285
 Gly Pro Ala Gly Arg Ala Leu Gly Asp Gly Ile Ser Phe Ile Leu Ser
 290 295 300
 Thr Leu Ile Ala His Ala Gly Trp Leu Ala Gly Leu Leu Phe Gly Gly
 305 310 315 320
 Leu Tyr Ser Val Ile Val Ile Thr Gly Ile His His Ser Phe His Ala
 325 330 335
 Ile Glu Ala Gly Leu Leu Gly Asn Pro Ser Ile Gly Val Asn Phe Leu
 340 345 350
 Leu Pro Ile Trp Ala Met Ala Asn Val Ala Gln Gly Gly Ala Cys Leu
 355 360 365
 Ala Val Trp Phe Lys Thr Arg Asp Ala Lys Ile Lys Ala Ile Thr Leu
 370 375 380
 Pro Ser Ala Phe Ser Ala Met Leu Gly Ile Thr Glu Ala Ala Ile Phe
 385 390 395 400
 Gly Ile Asn Leu Arg Phe Val Lys Pro Phe Ile Ala Ala Leu Ile Gly
 405 410 415
 Gly Ala Ala Gly Gly Ala Trp Val Val Ser Val His Val Tyr Met Thr
 420 425 430
 Ala Val Gly Leu Thr Ala Ile Pro Gly Met Ala Ile Val Gln Ala Ser
 435 440 445
 Ser Leu Leu Asn Tyr Ile Ile Gly Met Val Ile Ala Phe Gly Val Ala
 450 455 460
 Phe Thr Val Ser Leu Leu Leu Lys Tyr Lys Thr Asp Ser Glu
 465 470 475

<210> 7212

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 7212

Val Val Val Arg Lys Thr Lys Arg Val Thr Ile Lys Asp Ile Ala Glu
 1 5 10 15
 Leu Ala Gly Val Ser Lys Ala Thr Ala Ser Leu Val Leu Asn Gly Arg
 20 25 30
 Ser Lys Glu Leu Arg Val Ala Glu Glu Thr Arg Glu Arg Val Leu Ala
 35 40 45
 Ile Ala Lys Glu His His Tyr Gln Pro Ser Ile His Ala Arg Ser Leu
 50 55 60
 Arg Asp Asn Arg Ser His Thr Ile Gly Leu Val Val Pro Glu Ile Thr
 65 70 75 80
 Asn Tyr Gly Phe Ala Val Phe Ser His Glu Leu Glu Thr Leu Cys Arg
 85 90 95
 Glu Ala Gly Val Gln Leu Leu Ile Ser Cys Ser Asp Glu Asn Pro Gly
 100 105 110
 Gln Glu Thr Val Val Val Asn Asn Met Val Ala Arg Gln Val Asp Gly
 115 120 125
 Leu Ile Val Ala Ser Ser Met Leu Asn Asp Ala Asp Tyr Gln Lys Leu
 130 135 140
 Ser Glu Gln Leu Pro Val Val Leu Phe Asp Arg His Met Asn Asp Ser
 145 150 155 160

Thr Leu Pro Leu Val Leu Thr Asp Ser Ile Thr Pro Thr Ala Thr Leu
 165 170 175
 Val Ala Asp Ile Ala Arg Lys His Pro Asp Glu Phe Tyr Phe Leu Gly
 180 185 190
 Gly Gln Pro Arg Leu Ser Pro Thr Arg Asp Arg Leu Glu Gly Phe Lys
 195 200 205
 Gln Gly Leu Arg Asp Ala Gly Val Glu Leu Arg Pro Glu Trp Ile Ile
 210 215 220
 His Gly Asn Tyr His Pro Ser Ser Gly Tyr Glu Met Phe Ala Glu Leu
 225 230 235 240
 Cys Ala Arg Leu Gly Arg Pro Pro Lys Ala Leu Phe Thr Ala Ala Cys
 245 250 255
 Gly Leu Leu Glu Gly Val Leu Arg Tyr Met Gly Gln His Asn Leu Leu
 260 265 270
 Gln Ser Asp Met Arg Leu Ala Ser Phe Asp Asp His Tyr Leu Tyr Asp
 275 280 285
 Ser Leu Thr Ile Pro Val Asp Thr Val Arg Gln Asp Asn Arg Gln Leu
 290 295 300
 Ala Trp His Cys Phe Asp Leu Ile Gly Lys Leu Ile Glu Gly Glu Thr
 305 310 315 320
 Pro Glu Pro Ile Gln Arg Lys Leu Asp Ala Thr Leu Gln Arg Arg Tyr
 325 330 335
 Lys Ala Val Glu
 340

<210> 7213

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 7213

Ser Val Asp Arg Ala Ile Asn Phe Asp His Ser Glu Lys Gln Tyr Leu
 1 5 10 15
 Arg Gly Val Val Met Leu Gln Arg Leu Ala Lys Lys Lys Val Leu Leu
 20 25 30
 Leu Ser Ala Leu Met Val Ser Gly Leu Val Arg Ala Glu Glu Ser Leu
 35 40 45
 Pro Asp Val Val Lys His Phe Ser Glu Gln Gln Asp Ile Lys Ile Ile
 50 55 60
 Lys Lys Ile Asp Ala Pro Gly Gly Ala Pro Ala Trp Leu Gly Gln Tyr
 65 70 75 80
 Gln Asp Met Gly Val Thr Leu Phe Leu Thr Pro Asp Gly Lys His Val
 85 90 95
 Val Ser Gly Tyr Leu Tyr Asp Glu Lys Gly Thr Asn Leu Ser Glu Ala
 100 105 110
 Phe Phe Gln Lys Glu Ile Tyr Ala Pro Met Gly Arg Glu Met Trp Lys
 115 120 125
 Lys Leu Asn Ala Ala His Pro Leu Lys Glu Gly Ala Glu Ser Ala Pro
 130 135 140
 Arg Lys Val Phe Val Phe Ala Asp Pro Phe Cys Pro Tyr Cys Lys Gln
 145 150 155 160
 Phe Trp Ala Glu Ala Gln Pro Trp Val Lys Ala Gly Lys Val Gln Leu
 165 170 175
 Asn Thr Leu Leu Val Ala Phe Leu Asn Pro Asn Ser Gly Arg Asn Ala
 180 185 190
 Ser Ala Ile Leu Asn Ala Lys Asp Pro Val Ser Ala Trp Lys Ala Tyr
 195 200 205
 Glu Leu Ser Gly Gly Lys Lys Leu Pro Lys Pro Glu Gly Ala Ala Ser
 210 215 220
 Arg Glu Thr Val Glu Ile Leu Gln Asn His Gln Thr Leu Met Asp Ser
 225 230 235 240

Leu Gly Ala Asn Ala Thr Pro Ala Ile Tyr Tyr Leu Asn Glu Gln Asn
 245 250 255
 Glu Leu Gln Gln Val Val Gly Met Pro Asp Ala Lys Gln Leu Glu Ala
 260 265 270
 Met Phe Gly Pro Lys Pro
 275

<210> 7214

<211> 197

<212> PRT

<213> *Enterobacter cloacae*

<400> 7214

Arg Cys Glu Ser Ala Gly Ser Arg Val Ser Asp Met Lys Ala Gly Glu
 1 5 10 15
 Ala Gly Glu Ser Leu Leu Ile Ser Ala Leu Asn Ala Cys Arg Arg Arg
 20 25 30
 Leu Lys Ala Phe Ile Arg Gly Arg Thr Ala Val Arg Asp Asp Val Asp
 35 40 45
 Asp Ile Leu Gln Glu Val Thr Trp Gln Leu Met Lys Val Glu Gln Pro
 50 55 60
 Val Glu Asn Val Ala Ala Trp Leu Phe Arg Ala Ala Arg Asn Glu Met
 65 70 75 80
 Ile Asp Arg Ala Arg Lys Lys His Glu Val Ser Leu Pro Gly Tyr Leu
 85 90 95
 Thr Ala Asp Asp Glu Asp Phe Pro Glu Gln Glu Ile Ala Glu Thr Leu
 100 105 110
 Phe Gly Val Pro Gln Thr Pro Glu Glu Tyr Leu Asn Met Leu Leu
 115 120 125
 Trp Glu Glu Leu Gly Gln Ala Leu Ser Glu Leu Pro Pro Gln Arg
 130 135 140
 Glu Val Phe Glu Lys Thr Glu Phe Glu Gly Tyr Ser Met Lys Val Leu
 145 150 155 160
 Ala Glu Glu Thr Gly Asp Ser Val Gln Ala Leu Leu Ser Arg Lys His
 165 170 175
 Lys Ala Val Arg Phe Leu Arg Ser Arg Leu Lys Asp Ile Tyr Glu Ala
 180 185 190
 Leu Thr Gly Gln
 195

<210> 7215

<211> 298

<212> PRT

<213> *Enterobacter cloacae*

<400> 7215

Arg His Gly Met Gln Phe Arg Leu Met Arg Asn Phe Ile Val Val Ala
 1 5 10 15
 Glu Glu Leu His Met His Arg Ala Ala Glu Arg Leu Asn Met Ala Gln
 20 25 30
 Pro Ala Leu Ser Gln Gln Ile Lys Thr Leu Glu Asp Arg Leu Gly Val
 35 40 45
 Met Leu Phe Ser Arg Ala Asn Arg Arg Leu Thr Leu Thr Pro Ala Gly
 50 55 60
 Glu Ala Phe Leu Ser Lys Ala Arg Val Ala Ile Leu Met Thr Asp Gln
 65 70 75 80
 Ala Ile Leu Asp Ala Arg Gln Thr Ala Arg Gly Glu Gln Gly Val Leu
 85 90 95
 Asn Leu Gly Cys Val Ser Ser Ala Ile Phe Asp Ser Lys Leu Pro Ala
 100 105 110
 Ala Leu Arg Leu Leu His Glu Lys Trp Pro Ala Ile Ser Leu Ser Met

115	120	125
Met Thr Gly Asn Val Gln Thr	Leu Tyr Thr Gly Val Gln Ser Asn Gln	
130	135	140
Leu Asp Val Ala Ile Ile Arg Ala Pro Leu Pro Leu Leu Pro Asp Asp		
145	150	155
Leu Gln Ser Arg Pro Phe Thr Thr Glu Lys Ala Val Leu Ala Leu Pro		
	165	170
Arg Gln His Ser Leu Ala Gly Ser Ala Ala Leu Thr Leu Ala Ser Val		
	180	185
Lys Glu Glu Lys Trp Ile Ala Leu Arg Asp Pro Glu Gly Met Gly Leu		
	195	200
Glu Gln Tyr Phe Tyr Asp Ala Cys His Ser Ala Gly Ile Gln Pro Asp		
	210	215
Val Val Gln Asn Ala Thr Asp Val Pro Thr Val Ile Ser Leu Val Ser		
	225	230
Ala Gly Phe Gly Ile Ala Met Leu Pro Ala Ser Ala Lys Ala Ile Cys		
	245	250
Val Gln Asn Val Val Phe Val Asp Ile Leu Asp Arg Leu Arg Glu Ser		
	260	265
Glu Leu Thr Leu Val Cys His Arg Ile Ile Arg Ser Glu Val Leu Lys		
	275	280
Lys Leu Met Ser Ile Leu Asp His Thr		
	290	295

<210> 7216

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 7216

Met Met Gln Leu Ile Ala Leu Phe Val Arg Leu Arg Met Asp Ala Phe	
1	5
Ile Arg Gly Gly Lys Asn Met Glu Asn His Ile Asn Asp Leu Arg Ser	10
	20
Ala Ile Glu Leu Leu Lys Arg His Glu Gly Gln Tyr Leu Glu Thr Ser	25
	35
His Pro Val Asp Pro Asp Ala Glu Leu Ala Gly Val Tyr Arg His Ile	40
	50
Gly Ala Gly Gly Thr Val Lys Arg Pro Thr Arg Ile Gly Pro Ala Met	55
65	70
Met Phe Asn Ala Ile Lys Gly Tyr Pro Asp Ser Arg Ile Leu Val Gly	75
	85
Met His Ala Ser Arg Glu Arg Ala Ala Leu Leu Gly Cys Asp Pro	90
	100
Ser Glu Leu Ala Lys His Val Gly Gln Ala Val Lys Asn Pro Ile Ala	105
	115
Pro Val Val Val Pro Ala Ala Gln Ala Pro Cys Gln Glu Gln Val Phe	120
	130
Tyr Ala Asp Asn Pro Asp Phe Asp Leu Arg Lys Leu Leu Pro Ala Pro	135
145	150
Thr Asn Thr Pro Ile Asp Ala Gly Pro Phe Phe Cys Leu Gly Leu Val	155
	165
Leu Ala Ser Asp Pro Glu Asp Ala Ser Leu Thr Asp Val Thr Ile His	170
	180
Arg Leu Cys Val Gln Glu Arg Asp Glu Leu Ser Met Phe Leu Ala Ala	185
	195
Gly Arg His Ile Glu Val Phe Arg Lys Lys Ala Glu Glu Ala Gly Lys	200
	210
Pro Leu Pro Val Thr Ile Asn Met Gly Leu Asp Pro Ala Ile Tyr Ile	215
225	230
Gly Ala Cys Phe Glu Ala Pro Thr Thr Pro Phe Gly Tyr Asn Glu Leu	235
	240

245 250 255
 Gly Val Ala Gly Ala Leu Arg Gln Thr Pro Val Glu Leu Val Gln Gly
 260 265 270
 Val Ala Val Asn Glu Lys Ala Ile Ala Arg Ala Glu Ile Ile Glu
 275 280 285
 Gly Glu Leu Leu Pro Gly Val Arg Val Glu Glu Asp Gln His Thr His
 290 295 300
 Thr Gly His Ala Met Pro Glu Phe Pro Gly Tyr Cys Gly Glu Ala Asn
 305 310 315 320
 Pro Ser Leu Pro Val Ile Lys Val Lys Ala Val Thr Met Arg His Gln
 325 330 335
 Ala Ile Leu Gln Thr Leu Val Gly Pro Gly Glu Glu His Thr Thr Leu
 340 345 350
 Ala Gly Leu Pro Thr Glu Ala Ser Ile Arg Asn Ala Val Glu Glu Ala
 355 360 365
 Ile Pro Gly Phe Leu Gln Asn Val Tyr Ala His Thr Ala Gly Gly Gly
 370 375 380
 Lys Phe Leu Gly Val Leu Gln Val Lys Lys Arg Gln Pro Ser Asp Glu
 385 390 395 400
 Gly Arg Gln Gly Gln Ala Ala Leu Ile Ala Leu Ala Thr Tyr Ser Glu
 405 410 415
 Leu Lys Asn Ile Ile Leu Val Asp Glu Asp Val Asp Ile Phe Asp Ser
 420 425 430
 Asp Asp Ile Leu Trp Ala Met Thr Thr Arg Met Gln Gly Asp Val Ser
 435 440 445
 Ile Thr His Leu Pro Gly Ile Arg Gly His Gln Leu Asp Pro Ser Gln
 450 455 460
 Ala Pro Asp Tyr Ser Pro Ser Ile Arg Gly Asn Gly Ile Thr Cys Lys
 465 470 475 480
 Thr Ile Phe Asp Cys Thr Val Pro Trp Ala Leu Lys Ser Arg Phe Glu
 485 490 495
 Arg Ala Pro Phe Met Glu Val Asp Pro Thr Pro Trp Ala Pro Glu Leu
 500 505 510
 Phe Lys Lys
 515

<210> 7217

<211> 369

<212> PRT

<213> *Enterobacter cloacae*

<400> 7217

Arg Arg Tyr Arg Arg Ala Val Lys His Pro Leu Arg Pro Ile His Ser
 1 5 10 15
 Met Asp Arg Ser His Ser Leu Pro Gly Gly Ser Gln Lys Ser Gln Leu
 20 25 30
 Asn Tyr Asp Glu Leu Thr Ile Glu Glu Pro Ile Met Phe Thr Val Lys
 35 40 45
 Lys Leu Ala Ile Ser Thr Leu Leu Ala Gly Ser Val Leu Phe Phe Pro
 50 55 60
 Ala Ile His Ala Val Ala Ser Val Pro Gln His Val Val Lys Gln Gln
 65 70 75 80
 Ala Gly Gly Tyr Ser Val Gln Val Gly Asp Thr Ile Val Thr Ala Phe
 85 90 95
 Thr Asp Gly Ser Val Pro Gln Asp Leu His Ala Leu Leu Arg Thr
 100 105 110
 Thr Ala Glu Asn Thr Asp Ala Leu Leu Ala Lys Asn Phe Gln Ala Asn
 115 120 125
 Pro Val Glu Ala Ser Ile Asn Ala Phe Tyr Ile Ala Ile Pro Gly His
 130 135 140
 Lys Ile Leu Val Asp Thr Gly Ser Gly Gln Leu Phe Gly Pro Gly Lys

145 150 155 160
 Gly Gly Arg Leu Ile Glu Ser Leu Ala Thr Gln Gly Ile Lys Pro Glu
 165 170 175
 Asp Ile Thr Asp Ile Leu Ile Thr His Ala His Ser Asp His Ala Gly
 180 185 190
 Gly Leu Val Lys Asp Gly Gln Arg Val Phe Thr Arg Ala Gln Val Tyr
 195 200 205
 Val Gly Lys Pro Asp Ile Asp Phe Phe Phe Asn Asp Glu Asn Gln Lys
 210 215 220
 Lys Ser Gly Tyr Asp Gln Asn Tyr Phe Asp Val Ala His Lys Thr Leu
 225 230 235 240
 Lys Pro Tyr Leu Asp Ala Gly Lys Val Thr Thr Phe Ser Gly Thr Glu
 245 250 255
 Gln Leu Leu Pro Gly Ile Ser Gly Thr Val His Pro Gly His Thr Pro
 260 265 270
 Gly Ser Ala Phe Tyr Thr Leu Glu Ser Lys Gly Glu Lys Met Thr Phe
 275 280 285
 Val Gly Asp Ile Ile His Val Ala Ala Val Gln Phe Pro Gln Pro Asn
 290 295 300
 Val Thr Ile Ala Tyr Asp Glu Asp Gln Asp Gly Ala Ala Arg Val Arg
 305 310 315 320
 Asn Ala Ala Phe Ala Glu Phe Val Lys Asn Lys Ala Leu Ile Ala Ala
 325 330 335
 Pro His Leu Pro Phe Pro Gly Ile Gly Tyr Val Thr Lys Gly Glu Arg
 340 345 350
 Asp Gly Tyr Ala Trp Val Pro Val Thr Tyr Thr Asn Arg Asp Ala Lys
 355 360 365

<210> 7218

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 7218

Arg His Leu Gln Glu Gly Ala Val Ile Ile Asn Thr Thr Ser Val Gln
 1 5 10 15
 Ala Phe Lys Pro Ser Ala Ile Leu Val Asp Tyr Ala Gln Thr Lys Ala
 20 25 30
 Cys Asn Val Ala Phe Thr Lys Ser Leu Ala Gln Gln Leu Gly Pro Arg
 35 40 45
 Gly Ile Arg Val Asn Ala Val Ala Pro Gly Pro Tyr Trp Thr Pro Leu
 50 55 60
 Gln Ser Ser Gly Gly Gln Pro Gln Ser Lys Val Gln Lys Phe Gly Glu
 65 70 75 80
 Asp Thr Pro Leu Gly Arg Pro Gly Gln Pro Val Glu Ile Ala Pro Leu
 85 90 95
 Tyr Val Leu Phe Ala Ser Asp Thr Cys Ser Tyr Ala Ser Gly Gln Val
 100 105 110
 Trp Cys Ser Asp Gly Gly Thr Gly Val Leu
 115 120

<210> 7219

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 7219

Pro Ile Pro Thr Val Thr Gln Asn Lys Met Ser Pro Ser Asp Met Asp
 1 5 10 15

Met Asp Leu Ile Leu Thr Leu Asp Ala Leu Leu Arg Asp Gln Asn Ile
 20 25 30
 Thr His Ala Ala Ala Arg Leu Gly Ile Ser Gln Pro Ala Met Ser Ala
 35 40 45
 Arg Leu Ala Arg Leu Arg Val Leu Phe Gly Glu Pro Leu Phe Val Pro
 50 55 60
 Ser Pro His Gly Arg Gly Val Leu Pro Thr Pro Arg Ala Glu Ala Leu
 65 70 75 80
 Arg Pro Gln Val Ala Thr Val Leu Gln Gly Ile Ser Ala Met Leu Glu
 85 90 95
 Pro Thr Thr Phe Asn Ala Gln Asn Ser Asn Arg Thr Phe Val Ile Ala
 100 105 110
 Leu His Glu Asn Pro Ala Leu Met Leu Gly Ala Glu Leu Gln Asn Gln
 115 120 125
 Ile Ser Ser Ala Ala Pro Gly Ile Arg Leu Arg Phe Ala Leu Pro Glu
 130 135 140
 Thr Gln Leu Leu Pro Ala Gln Met Glu Asn Gly Asp Val Asp Ile Tyr
 145 150 155 160
 Val Gly Val Asn Ala Val Ala His Asp Ala Trp Val Arg Arg Lys Leu
 165 170 175
 Phe Asp Asp Glu Tyr Ala Thr Ala Gln Arg Lys Gly His Pro Arg Gly
 180 185 190
 Thr Gly Pro Met Asp Leu Asp Ser Tyr Cys Ser Leu Ser His Leu Val
 195 200 205
 Val Ser Ser Glu Gly Asp Pro Phe Ala Gly Phe Val Asp Gln His Leu
 210 215 220
 Ala Gly Leu Gly His Gln Arg Asn Val Val Met Ser Thr Gln Ser Tyr
 225 230 235 240
 Ala Met Ala Pro Ala Ile Val Ala Gly Thr Asp Leu Leu Cys Thr Leu
 245 250 255
 Pro Arg Arg Met Leu Leu Arg Phe Thr Gln Thr Leu Asp Ile Phe Pro
 260 265 270
 Pro Pro Leu Asp Leu Pro Pro Ile Val Ile Gly Met Tyr Trp His Pro
 275 280 285
 Lys Asn Ser Gln Asp Pro Ala Asn Arg Trp Leu Arg Glu Gln Leu Leu
 290 295 300
 Gln Ala Ala Gly Arg Gln Val
 305 310

<210> 7220

<211> 478

<212> PRT

<213> Enterobacter cloacae

<400> 7220

Ser Ser Cys Ala Ala Pro His Gly Arg Gly Arg Lys Leu Lys Pro Ser
 1 5 10 15
 Thr Ser Thr Pro Phe Thr Met Thr Val Thr Gly Ser Arg Thr Asn Arg
 20 25 30
 Arg Leu Ile Pro Gly Arg Ile Ala Gly His Pro Gly Ala Asn Thr Gln
 35 40 45
 Met Met Arg His Val Lys Arg Thr Gly Ala Leu Leu Gly Cys Ala Leu
 50 55 60
 Leu Leu Val Ser Cys Thr Ser Lys Pro Pro Lys Ser Leu Val Thr Pro
 65 70 75 80
 Leu Pro Gln Ala Lys Pro Val Gln Gln Thr Asn Glu Pro Met Arg Gly
 85 90 95
 Ile Trp Leu Ala Thr Val Ser Arg Leu Asp Trp Pro Pro Val Ser Ser
 100 105 110
 Val Asn Gly Arg Ser Ala Asp Gln Arg Ile Ala Gln Gln Gln Arg Ala
 115 120 125

Leu Thr Asp Lys Leu Asp Lys Leu Lys Asn Leu Gly Ile Asn Thr Val
 130 135 140
 Phe Phe Gln Val Lys Pro Asp Ser Thr Ala Leu Trp Ala Ser Lys Ile
 145 150 155 160
 Leu Pro Trp Ser Asp Thr Leu Thr Gly Thr Ile Gly Glu Asp Pro Gly
 165 170 175
 Tyr Asp Pro Leu Gln Phe Met Leu Asp Glu Ala His Lys Arg Gly Met
 180 185 190
 Lys Val His Ala Trp Phe Asn Pro Tyr Arg Val Ser Thr Asn Thr Lys
 195 200 205
 Pro Ser Thr Ile Ala Ala Leu Asn Arg Thr Ser Ser Leu His Pro Ser
 210 215 220
 Ser Val Tyr Val Leu His Pro Glu Trp Ile Arg Thr Ser Gly Asp Arg
 225 230 235 240
 Phe Val Leu Asp Pro Gly Ile Pro Glu Val Arg Asp Trp Ile Thr Gln
 245 250 255
 Val Val Met Glu Val Val Asn His Tyr Pro Val Asp Gly Val Gln Phe
 260 265 270
 Asp Asp Tyr Phe Tyr Thr Glu Thr Pro Gly Ser Pro Leu Asn Asp Ala
 275 280 285
 Trp Thr Phe Arg Arg Tyr Gly Glu Gly Phe Ser Ser Lys Ala Asp Trp
 290 295 300
 Arg Arg His Asn Thr Gln Gln Leu Ile Val Gln Val Ser Arg Ala Ile
 305 310 315 320
 Lys Gln Ala Lys Pro Glu Val Glu Phe Gly Val Ser Pro Ala Gly Val
 325 330 335
 Trp Arg Asn Arg Ser Phe Asp Pro Ala Gly Ser Asp Thr Arg Gly Ala
 340 345 350
 Ala Ala Tyr Asp Glu Ser Tyr Ala Asp Thr Arg Lys Trp Val Gln Gln
 355 360 365
 Gly Leu Leu Asp Tyr Ile Ala Pro Gln Ile Tyr Trp Pro Phe Ala Arg
 370 375 380
 Asp Ala Ala Arg Tyr Asp Val Leu Thr Lys Trp Trp Ala Asp Val Val
 385 390 395 400
 Lys Pro Thr His Thr Arg Leu Tyr Ile Gly Ile Ala Phe Tyr Lys Val
 405 410 415
 Gly Ala Pro Ser Arg Asn Glu Pro Asp Trp Thr Val Asn Gly Gly Ile
 420 425 430
 Pro Glu Leu Lys Lys Gln Leu Asp Leu Asn Asp Ser Leu Pro Asp Val
 435 440 445
 Lys Gly Thr Ile Leu Phe Arg Glu Asp Tyr Leu Asn Gln Pro Gln Thr
 450 455 460
 Gln Glu Ala Val Asn Tyr Leu Arg Gly Arg Trp Gly Ser
 465 470 475

<210> 7221

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 7221

Leu His Gly Leu Pro Leu His Arg Tyr Gly His Phe Ser Arg His Pro
 1 5 10 15
 Ala Pro Ala Tyr Arg Pro Gly Lys Arg Cys Arg Cys Tyr Ser Pro Pro
 20 25 30
 Ser Arg Ser Ala Leu Pro Cys Trp Arg Pro Ser Gly Ser Gly Pro Lys
 35 40 45
 Pro Val Ala Arg Tyr Gly Arg Pro Gly Arg Tyr Cys Arg Arg Gln Phe
 50 55 60
 Pro Ala Leu His Ala Ser Arg Phe Gly Trp His Arg Ala Pro Glu Lys
 65 70 75 80

Trp Trp Arg Ala Ala Pro Gly Ala Ser Ala Pro Ser Arg Thr Ser Gly
 85 90 95
 Asp Arg Phe His Ser Arg Asn His Ala
 100 105

<210> 7222

<211> 203

<212> PRT

<213> *Enterobacter cloacae*

<400> 7222

Gln Glu Leu Arg Lys Arg Ser Arg Ile Met Ala Val Gln Thr Lys Val
 1 5 10 15
 Val Arg Phe Phe Met Ala Gly Ala Val Ala Ile Ala Leu Ser Gly Cys
 20 25 30
 Val Thr Val Pro Asp Ala Ile Lys Gly Thr Ser Pro Thr Pro Gln Gln
 35 40 45
 Asp Leu Val Arg Val Met Asn Ala Pro Glu Leu Tyr Val Gly Gln Glu
 50 55 60
 Ala Arg Phe Gly Gly Lys Val Val Glu Val Leu Asn Gln Gln Gly Lys
 65 70 75 80
 Thr Arg Leu Glu Ile Ala Thr Val Pro Leu Asp Asp Gly Ala Arg Pro
 85 90 95
 Val Leu Gly Glu Ala Ser Arg Gly Arg Ile Tyr Ala Asp Val Ser Gly
 100 105 110
 Phe Leu Asp Pro Val Asp Phe Arg Gly Gln Leu Val Thr Val Val Gly
 115 120 125
 Pro Ile Thr Gly Ser Val Ala Gly Lys Ile Gly Asn Thr Pro Tyr Lys
 130 135 140
 Phe Met Thr Met Gln Val Asn Gly Tyr Lys Arg Trp Arg Ile Ala Gln
 145 150 155 160
 Gln Val Val Met Pro Pro Gln Pro Ile Asp Pro Trp Met Trp Gly Pro
 165 170 175
 His Pro Tyr Arg Tyr Gly Tyr Gly Gly Trp Gly Trp Tyr Asn Pro Gly
 180 185 190
 Pro Ala Gln Val Gln Thr Ile Val Thr Glu
 195 200

<210> 7223

<211> 524

<212> PRT

<213> *Enterobacter cloacae*

<400> 7223

Gln Glu Arg Val Met Glu Phe Leu Met Asp Pro Ser Ile Trp Val Gly
 1 5 10 15
 Leu Leu Thr Leu Val Val Leu Glu Ile Val Leu Gly Ile Asp Asn Leu
 20 25 30
 Val Phe Ile Ala Ile Leu Ala Asp Lys Leu Pro Pro Lys Gln Arg Asp
 35 40 45
 Lys Ala Arg Leu Ile Gly Leu Ser Leu Ala Leu Ile Met Arg Leu Gly
 50 55 60
 Leu Leu Ser Val Ile Ser Trp Met Val Thr Leu Thr Lys Pro Leu Phe
 65 70 75 80
 Thr Val Met Asp Phe Thr Phe Ser Gly Arg Asp Leu Ile Met Leu Val
 85 90 95
 Gly Gly Leu Phe Leu Leu Phe Lys Ala Thr Thr Glu Leu His Glu Arg
 100 105 110
 Leu Glu Asn Arg Gln His Asp Asp Gly His Gly Lys Gly Tyr Ala Ser
 115 120 125
 Phe Trp Val Val Val Leu Gln Ile Val Val Leu Asp Ala Val Phe Ser

130 135 140
 Leu Asp Ala Val Ile Thr Ala Val Gly Met Val Asn His Leu Pro Val
 145 150 155 160
 Met Met Ala Ala Val Ile Ala Met Ala Val Met Leu Leu Ala Ser
 165 170 175
 Lys Pro Leu Thr Arg Phe Val Asn Gln His Pro Thr Val Val Val Leu
 180 185 190
 Cys Leu Ser Phe Leu Leu Met Ile Gly Leu Ser Leu Val Ala Glu Gly
 195 200 205
 Phe Gly Phe His Ile Pro Lys Gly Tyr Leu Tyr Ala Ala Ile Gly Phe
 210 215 220
 Ser Ile Leu Ile Glu Leu Phe Asn Gln Ile Ala Arg Arg Asn Phe Ile
 225 230 235 240
 Lys Gln Gln Ser Asn Gln Pro Leu Arg Ala Arg Thr Ala Asp Ala Ile
 245 250 255
 Leu Arg Leu Met Gly Gly Arg Arg Gln Val Asn Val Gln Ala Asp Asn
 260 265 270
 Glu Asn Arg Asn Pro Val Pro Val Pro Glu Gly Ala Phe Val Glu Glu
 275 280 285
 Glu Arg Tyr Met Ile Asn Gly Val Leu Ser Leu Ala Ser Arg Ser Leu
 290 295 300
 Arg Gly Ile Met Thr Pro Arg Gly Glu Ile Ser Trp Val Asp Ala Asn
 305 310 315 320
 Leu Ser Val Asp Glu Ile Arg Gln Gln Leu Leu Ser Ser Pro His Ser
 325 330 335
 Leu Phe Pro Val Cys Arg Gly Glu Leu Asp Glu Ile Ile Gly Val Val
 340 345 350
 Arg Ala Lys Glu Met Leu Val Ala Leu Glu Glu Gly Val Asn Val Glu
 355 360 365
 Ala Val Ala Ala Ala Ser Pro Ala Ile Val Val Pro Glu Thr Leu Asp
 370 375 380
 Pro Ile Asn Leu Leu Gly Val Leu Arg Arg Ala Arg Gly Ser Phe Val
 385 390 395 400
 Ile Val Thr Asn Glu Phe Gly Val Val Gln Gly Leu Val Thr Pro Leu
 405 410 415
 Asp Val Leu Glu Ala Ile Ala Gly Glu Phe Pro Asp Ala Asp Glu Thr
 420 425 430
 Pro Glu Ile Val Ala Asp Gly Asp Gly Trp Leu Val Lys Gly Thr Thr
 435 440 445
 Asp Leu His Ala Leu Ser His Thr Leu Gly Val Glu Asn Val Val Asn
 450 455 460
 Asp Asp Glu Asp Ile Ala Thr Val Ala Gly Leu Val Ile Ser Val Asn
 465 470 475 480
 Gly Gln Ile Pro Arg Ile Gly Asp Val Leu Glu Leu Pro Pro Leu Gln
 485 490 495
 Ile Thr Ile Val Glu Ala Asn Asp Tyr Arg Val Asp Met Val Arg Ile
 500 505 510
 Val Lys Glu His Ser Ala His Asp Glu Glu Glu
 515 520

<210> 7224

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 7224

Gly Leu Ser Phe Thr Leu Ile Ala Gln Thr Pro Val Lys Pro Ala Phe
 1 5 10 15
 Phe Met Gly Ala Asn Lys Arg Glu Ser Asp Leu Asn Tyr Gln Met Ile
 20 25 30
 Thr Thr Asn Asp Glu Leu Ala Ser Leu Cys Glu Val Thr Arg Glu Phe

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      35              40              45
Pro Ala Ile Ala Leu Asp Thr Glu Phe Val Arg Thr Arg Thr Tyr Tyr
50
Pro Gln Leu Gly Leu Ile Gln Met Tyr Asp Gly Lys His Val Ser Leu
65
Ile Asp Pro Leu Gly Ile Thr Asp Trp Ala Pro Met Arg Glu Leu Leu
85
Leu Asp Thr Ala Val Thr Lys Tyr Leu His Ala Gly Ser Glu Asp Leu
100
Glu Val Phe Leu Asn Thr Phe Gly Ile Met Pro Gln Pro Leu Ile Asp
115
Thr Gln Ile Leu Ala Ala Phe Ser Gly Arg Pro Leu Ser Trp Gly Phe
130
Ala Ala Met Val Glu Glu Tyr Thr Gly Leu Thr Leu Asp Lys Ser Glu
145
Ser Arg Thr Asp Trp Leu Ala Arg Pro Leu Thr Ala Arg Gln Leu Glu
165
Tyr Ala Ala Ala Asp Val Phe Tyr Leu Leu Pro Ile Ala Gly Gln Leu
180
Met Lys Glu Ala Glu Ala Ser Gly Trp Leu Ser Ala Ala Leu Asp Glu
195
Cys Arg Met Thr Gln Gln Arg Arg Gln Glu Val Val Asp Pro Lys Glu
210
Ala Trp Arg Asp Ile Thr Asn Ala Trp Gln Leu Arg Thr Arg Gln Leu
225
Ala Cys Leu Gln Leu Leu Ala Asp Trp Arg Leu Arg Lys Ala Arg Glu
245
Arg Asp Leu Ala Val Asn Phe Val Val Arg Glu Glu His Leu Trp Ala
260
Val Ala Arg Tyr Met Pro Gly Ser Leu Gly Glu Leu Asp Ser Ile Gly
275
Leu Ser Gly Ser Glu Ile Arg Phe His Gly Lys Thr Leu Leu Ala Leu
290
Val Glu Lys Ala Gln Gln Leu Pro Glu Asp Ala Leu Pro Glu Pro Leu
305
Leu Asn Leu Met Asp Met Pro Gly Tyr Arg Lys Ala Phe Lys Asp Ile
325
Lys Ala Leu Val Gln Thr Val Ala Gly Glu Ser Lys Leu Ser Ala Glu
340
Leu Leu Ala Ser Arg Arg Gln Ile Asn Gln Leu Leu Asn Trp His Trp
355
Lys Leu Lys Pro Gln Asn Gly Leu Pro Glu Leu Val Ala Gly Trp Arg
370
Gly Glu Leu Met Ala Glu Arg Leu Asn Thr Leu Leu Glu Gly Tyr Pro
385
Arg
390
395
400

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<210> 7225

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 7225

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Gln Glu Leu Thr Met Phe Ala Gly Leu Pro Ser Leu Ser His Asp Gln
1
Gln Gln Lys Ala Val Glu Arg Ile Gln Glu Leu Met Ser Gln Gly Met
20
Ser Ser Gly Gln Ala Ile Ser Gln Val Ala Glu Glu Leu Arg Ala Thr
35
His Thr Gly Glu Arg Ile Val Ala Arg Phe Glu Asp Glu Asp Glu Glu
40
45

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50

55

60

65

<210> 7226

<211> 640

<212> PRT

<213> *Enterobacter cloacae*

<400> 7226

Glu Asn Thr Val Ala Asp Asp Phe Ser Pro Glu Gly Gln Leu Ala Gln
 1 5 10 15
 Ala Ile Pro Gly Phe Lys Pro Arg Glu Pro Gln Arg Gln Met Ala His
 20 25 30
 Ala Val Ala His Ala Ile Asp Lys Ala Gln Pro Leu Val Val Glu Ala
 35 40 45
 Gly Thr Gly Thr Gly Lys Thr Tyr Ala Tyr Leu Ala Pro Ala Leu Arg
 50 55 60
 Ala Lys Lys Lys Val Ile Ile Ser Thr Gly Ser Lys Ala Leu Gln Asp
 65 70 75 80
 Gln Leu Tyr Ser Arg Asp Leu Pro Thr Val Ala Lys Ala Leu Lys Tyr
 85 90 95
 Lys Gly Arg Leu Ala Leu Leu Lys Gly Arg Ser Asn Tyr Leu Cys Leu
 100 105 110
 Glu Arg Leu Glu Gln Gln Ala Leu Ala Gly Gly Asp Leu Pro Val Gln
 115 120 125
 Thr Leu Ser Asp Val Ile Val Leu Arg Ala Trp Ala Asn Gln Thr Glu
 130 135 140
 Glu Gly Asp Ile Ser Thr Cys Ala Ser Val Pro Glu Asp Ser Pro Ala
 145 150 155 160
 Trp Pro Leu Val Thr Ser Thr Asn Asp Asn Cys Leu Gly Ser Asp Cys
 165 170 175
 Pro Leu Tyr Lys Asp Cys Phe Val Val Lys Ala Arg Lys Thr Ala Met
 180 185 190
 Asp Ala Asp Val Val Val Val Asn His His Leu Phe Leu Ala Asp Met
 195 200 205
 Val Val Lys Asp Ser Gly Phe Gly Glu Leu Ile Pro Glu Ala Glu Val
 210 215 220
 Met Ile Phe Asp Glu Ala His Gln Leu Pro Asp Ile Ala Ser Gln Tyr
 225 230 235 240
 Phe Gly Gln Ser Leu Ser Ser Arg Gln Leu Gln Asp Leu Ala Lys Asp
 245 250 255
 Ile Thr Ile Ala Tyr Arg Thr Glu Leu Lys Asp Thr Gln Gln Leu Gln
 260 265 270
 Lys Cys Ala Asp Arg Leu Ala Gln Cys Ala Gln Asp Phe Arg Leu Gln
 275 280 285
 Leu Gly Glu Pro Gly Tyr Arg Gly Asn Leu Arg Glu Leu Leu Ala Asp
 290 295 300
 Lys Asn Ile Gln Arg Ala Leu Leu Leu Asp Asp Ala Leu Glu Leu
 305 310 315 320
 Cys Tyr Asp Val Ala Lys Leu Ser Leu Gly Arg Ser Ala Leu Leu Asp
 325 330 335
 Ala Ala Phe Glu Arg Ala Thr Leu Tyr Arg Gly Arg Leu Lys Arg Leu
 340 345 350
 Lys Glu Ile Asn Gln Pro Gly Tyr Ser Tyr Trp Tyr Glu Cys Thr Ser
 355 360 365
 Arg His Phe Thr Leu Ala Leu Thr Pro Leu Thr Val Ala Asp Lys Phe
 370 375 380
 Lys Glu Val Met Ala Gln Lys Pro Gly Thr Trp Val Phe Thr Ser Ala
 385 390 395 400
 Thr Leu Ser Val Asn Asp Asp Leu His His Phe Thr Glu Arg Leu Gly

405 410 415
 Ile Glu Gln Ala Glu Ser Leu Leu Leu Pro Ser Pro Phe Asp Tyr Glu
 420 425 430
 Arg Gln Ala Leu Leu Cys Val Pro Arg Asn Leu Pro Leu Pro Asn Gln
 435 440 445
 Pro Gly Ala Ala Arg His Leu Ala Ala Met Leu Lys Pro Met Ile Glu
 450 455 460
 Ala Asn Asn Gly Arg Cys Phe Met Leu Cys Thr Ser His Ala Met Met
 465 470 475 480
 Arg Asp Leu Ala Glu Gln Phe Arg Ala Thr Met Thr Leu Pro Val Leu
 485 490 495
 Leu Gln Gly Glu Thr Ser Lys Gly Gln Leu Leu Gln Gln Phe Val Ser
 500 505 510
 Ala Gly Asn Ala Leu Leu Val Ala Thr Ser Ser Phe Trp Glu Gly Val
 515 520 525
 Asp Val Arg Gly Asp Thr Leu Ser Leu Val Ile Ile Asp Lys Leu Pro
 530 535 540
 Phe Thr Ser Pro Asp Asp Pro Leu Leu Lys Ala Arg Met Glu Asp Cys
 545 550 555 560
 Arg Leu Arg Gly Gly Asp Pro Phe Asp Asp Val Gln Leu Pro Asp Ala
 565 570 575
 Val Ile Thr Leu Lys Gln Gly Val Gly Arg Leu Ile Arg Asp Val Thr
 580 585 590
 Asp Arg Gly Val Leu Val Ile Cys Asp Asn Arg Leu Val Met Arg Pro
 595 600 605
 Tyr Gly Ala Thr Phe Leu Ala Ser Leu Pro Pro Ala Pro Arg Thr Arg
 610 615 620
 Asp Ile Lys Arg Ala Val Arg Phe Leu Ala Asn Pro Thr Ala Glu
 625 630 635 640

<210> 7227

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 7227

Leu Thr Ile Ala Arg Ala Arg Arg Leu Met Arg Ile Leu Ala Ile Asp
 1 5 10 15
 Thr Ala Thr Glu Ala Cys Ser Val Ala Leu Trp Asn Asp Gly Thr Ile
 20 25 30
 Phe Ala His Phe Glu Glu Cys Pro Arg Glu His Thr Gln Arg Ile Leu
 35 40 45
 Pro Leu Val Lys Thr Ile Leu Thr Glu Gly Asn Thr Ala Leu Thr Asp
 50 55 60
 Leu Asp Ala Leu Ala Tyr Gly Arg Gly Pro Gly Ser Phe Thr Gly Val
 65 70 75 80
 Arg Ile Gly Ile Gly Ile Ala Gln Gly Leu Ala Leu Gly Ala Asp Leu
 85 90 95
 Pro Met Ile Gly Val Ser Thr Leu Ala Thr Met Ala Gln Gly Ala Trp
 100 105 110
 Arg Met Thr Gly Ala Thr Arg Val Leu Ala Ala Ile Asp Ala Arg Met
 115 120 125
 Gly Glu Val Tyr Trp Ala Glu Tyr Thr Arg Asp Glu Asn Gly Val Trp
 130 135 140
 His Gly Glu Glu Thr Glu Ala Val Leu Lys Pro Glu Ala Val Thr Gly
 145 150 155 160
 Arg Leu Lys Gln Leu Ser Gly Glu Trp Ala Thr Val Gly Thr Gly Trp
 165 170 175
 Ala Ala Trp Pro Glu Met Ala Lys Asp Thr Gly Leu Thr Leu Val Asp
 180 185 190
 Gly Asn Met Leu Leu Pro Ala Ala Glu Asp Met Leu Pro Ile Ala Cys

	195		200		205
Gln	Leu Phe Ala Ala Gly Lys Thr Val Ala Val Glu His Ala Glu Pro				
210		215		220	
Val	Tyr Leu Arg Asn Thr Val Ala Trp Lys Lys Leu Pro Gly Arg Glu				
225		230		235	240

<210> 7228

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 7228

Tyr	Asn	Val	Asn	Lys	Leu	Phe	Ile	Ile	Gly	Ala	Val	Met	Thr	Thr	Asn
1			5					10						15	
Thr	His	Phe	Arg	Gly	Asp	Ala	Leu	Lys	Lys	Val	Trp	Leu	Asn	Arg	Tyr
			20					25					30		
Pro	Ala	Asp	Val	Pro	Ala	Glu	Ile	Asn	Pro	Asp	Arg	Tyr	Gln	Ser	Leu
		35					40					45			
Ile	Glu	Leu	Phe	Glu	His	Ser	Val	Arg	Arg	Tyr	Ala	Asp	Gln	Pro	Ala
		50					55				60				
Phe	Val	Asn	Met	Gly	Glu	Val	Met	Thr	Phe	Arg	Lys	Leu	Glu	Glu	Arg
65			70						75					80	
Ser	Arg	Ala	Phe	Ala	Ala	Tyr	Leu	Gln	Glu	Gly	Leu	Gly	Leu	Gln	Lys
			85					90					95		
Gly	Asp	Arg	Val	Ala	Leu	Met	Met	Pro	Asn	Leu	Leu	Gln	Tyr	Pro	Val
			100					105					110		
Ala	Leu	Phe	Gly	Ile	Leu	Arg	Ala	Gly	Met	Ile	Val	Val	Asn	Val	Asn
			115					120					125		
Pro	Leu	Tyr	Thr	Pro	Arg	Glu	Leu	Glu	His	Gln	Leu	Asn	Asp	Ser	Gly
			130					135					140		
Ala	Ala	Ala	Ile	Val	Ile	Val	Ser	Asn	Phe	Ala	His	Thr	Leu	Glu	Lys
145				150					155					160	
Val	Val	Glu	Lys	Thr	Gln	Val	Lys	His	Val	Ile	Leu	Thr	Arg	Met	Gly
			165						170					175	
Asp	Gln	Leu	Ser	Thr	Ala	Lys	Gly	Thr	Leu	Val	Asn	Phe	Val	Val	Lys
			180					185					190		
Tyr	Val	Lys	Arg	Leu	Val	Pro	Lys	Tyr	His	Leu	Pro	Asp	Ala	Ile	Ser
		195					200					205			
Phe	Arg	Arg	Ala	Leu	His	Ala	Gly	Tyr	Arg	Met	Gln	Tyr	Val	Lys	Pro
			210			215					220				
Glu	Ile	Val	Ser	Glu	Asp	Leu	Ala	Phe	Leu	Gln	Tyr	Thr	Gly	Gly	Thr
225					230					235				240	
Thr	Gly	Val	Ala	Lys	Gly	Ala	Met	Leu	Thr	His	Arg	Asn	Met	Leu	Ala
			245						250				255		
Asn	Leu	Glu	Gln	Val	Asn	Ala	Thr	Tyr	Gly	Pro	Leu	Leu	His	Pro	Gly
			260					265					270		
Lys	Glu	Leu	Val	Ile	Thr	Ala	Leu	Pro	Leu	Tyr	His	Ile	Phe	Ala	Leu
			275				280					285			
Thr	Met	Asn	Cys	Leu	Leu	Phe	Ile	Glu	Leu	Gly	Gly	Gln	Asn	Val	Leu
			290			295				300					
Ile	Thr	Asn	Pro	Arg	Asp	Ile	Pro	Gly	Leu	Val	Lys	Glu	Leu	Ala	Lys
305				310						315				320	
Tyr	Pro	Phe	Thr	Ala	Met	Thr	Gly	Val	Asn	Thr	Leu	Phe	Asn	Ala	Leu
			325						330				335		
Leu	Asn	Asn	Lys	Glu	Phe	Gln	Gln	Leu	Asp	Phe	Ser	Thr	Leu	His	Leu
			340				345						350		
Ser	Ala	Gly	Gly	Gly	Met	Pro	Val	Gln	Gln	Ala	Val	Ala	Glu	Arg	Trp
		355					360					365			
Val	Lys	Leu	Thr	Gly	Gln	Tyr	Leu	Leu	Glu	Gly	Tyr	Gly	Leu	Thr	Glu

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      370      375      380
Cys Ala Pro Leu Val Ser Val Asn Pro His Asp Ile Asp Tyr His Ser
385      390      395      400
Gly Ser Ile Gly Leu Pro Val Pro Ser Thr Glu Ala Lys Leu Val Asp
      405      410      415
Asp Glu Asp Asn Glu Val Pro His Gly Glu Pro Gly Glu Leu Cys Val
      420      425      430
Arg Gly Pro Gln Val Met Leu Gly Tyr Trp Gln Arg Pro Asp Ala Thr
      435      440      445
Asp Glu Ile Ile Lys Asp Gly Trp Leu His Thr Gly Asp Ile Ala Val
      450      455      460
Met Asp Asp Glu Gly Phe Leu Arg Ile Val Asp Arg Lys Lys Asp Met
465      470      475      480
Ile Leu Val Ser Gly Phe Asn Val Tyr Pro Asn Glu Ile Glu Asp Val
      485      490      495
Val Met Gln His Ser Gly Val Leu Glu Val Ala Ala Val Gly Val Pro
      500      505      510
Ser Gly Ser Ser Gly Glu Ala Val Lys Ile Phe Val Val Lys Lys Asp
      515      520      525
Pro Ser Leu Thr Glu Asp Ala Leu Ile Thr Phe Cys Arg Arg Gln Leu
      530      535      540
Thr Gly Tyr Lys Val Pro Lys Leu Val Glu Phe Arg Asp Glu Leu Pro
545      550      555      560
Lys Ser Asn Val Gly Lys Ile Leu Arg Arg Glu Leu Arg Asp Glu Ala
      565      570      575
Arg Ala Lys Val Asp Asn Lys Ala
      580      585

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<210> 7229

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 7229

```

Val Met Ala Leu Leu Asp Phe Phe Leu Ser Arg Lys Lys Ser Thr Ala
1      5      10      15
Asn Ile Ala Lys Glu Arg Leu Gln Ile Ile Val Ala Glu Arg Arg Arg
      20      25      30
Ser Asp Ala Glu Pro His Tyr Leu Pro Gln Leu Arg Lys Asp Ile Leu
      35      40      45
Glu Val Ile Cys Lys Tyr Val Gln Ile Asp Pro Glu Met Val Thr Val
      50      55      60
Gln Leu Glu Gln Lys Asp Gly Asp Ile Ser Ile Leu Glu Leu Asn Val
65      70      75      80
Thr Leu Pro Glu Ala Glu Glu Ser Arg
      85      90

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<210> 7230

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7230

```

Gln Val Thr Ile Ala Ile Val Ile Gly Thr His Gly Trp Ala Ala Glu
1      5      10      15
Gln Leu Leu Lys Thr Ala Glu Met Leu Leu Gly Glu Gln Glu Asn Val
      20      25      30
Gly Trp Ile Asp Phe Val Pro Gly Glu Asn Ala Glu Thr Leu Ile Glu
      35      40      45
Lys Tyr Thr Ala Gln Leu Glu Lys Leu Asp Thr Ser Lys Gly Val Leu
50      55      60

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Phe Leu Val Asp Thr Trp Gly Gly Ser Pro Phe Asn Ala Ala Ser Arg
65      70      75      80
Ile Val Val Asp Lys Glu His Tyr Glu Val Val Ala Gly Val Asn Ile
      85      90      95
Pro Met Leu Val Glu Thr Phe Met Ala Arg Asp Asp Asn Pro Gly Phe
      100      105      110
Asp Glu Leu Val Ala Leu Ala Val Glu Thr Gly Arg Glu Gly Val Lys
      115      120      125
Ala Leu Lys Ala Gln Pro Val Glu Lys Pro Ala Pro Ala Pro Ala Ala
      130      135      140
Pro Lys Ala Val Ala Pro Ala Lys Pro Met Gly Pro Asn Asp Tyr Met
145      150      155      160
Val Ile Gly Leu Ala Arg Ile Asp Asp Arg Leu Ile His Gly Gln Val
      165      170      175
Ala Thr Arg Trp Thr Lys Glu Thr Asn Val Gln Arg Ile Ile Val Val
      180      185      190
Ser Asp Glu Val Ala Ala Asp Thr Val Arg Lys Thr Leu Leu Thr Gln
      195      200      205
Val Ala Pro Pro Gly Val Thr Ala His Val Val Asp Val Ala Lys Met
      210      215      220
Ile Arg Val Tyr Asn Asn Pro Lys Tyr Ala Gly Glu Arg Val Met Leu
225      230      235      240
Leu Phe Thr Asn Pro Thr Asp Val Glu Arg Ile Val Glu Gly Gly Val
      245      250      255
Lys Ile Thr Ser Val Asn Ile Gly Gly Met Ala Phe Arg Gln Gly Lys
      260      265      270
Thr Gln Val Asn Asn Ala Ile Ser Val Asp Ala Lys Asp Ile Glu Ala
      275      280      285
Phe Asn Lys Leu Asn Ala Arg Gly Ile Glu Leu Glu Ala Arg Lys Val
290      295      300
Ser Thr Asp Gln Lys Leu Lys Met Met Asp Leu Ile Gly Lys Val Gly
305      310      315      320
Lys

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<210> 7231

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 7231

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Ser Glu Ser Tyr Pro Glu Thr Thr Gly Glu Leu Thr Val Lys Lys Asp
1      5      10      15
Asn Leu Thr Leu Asp Asp Phe Leu Ser Arg Phe Gln Leu Leu Arg Pro
      20      25      30
Gln Val Ser Arg Ala Thr Leu Asn Gln Arg Gln Ala Ala Val Leu Ile
      35      40      45
Pro Val Val Arg Arg Glu Gln Pro Gly Leu Leu Leu Thr Gln Arg Ser
      50      55      60
Pro His Met Arg Lys His Ala Gly Gln Val Ala Phe Pro Gly Gly Ala
65      70      75      80
Val Asp Ser Thr Asp Ala Ser Leu Ile Ala Ala Ala Leu Arg Glu Ala
      85      90      95
His Glu Glu Val Ala Ile Pro Pro Glu Thr Val Glu Val Ile Gly Val
      100      105      110
Leu Pro Pro Val Asp Ser Val Thr Gly Phe Gln Val Thr Pro Val Val
      115      120      125
Gly Ile Ile Pro Pro Asp Leu Gln Tyr His Ala Ser Val Asp Glu Val
130      135      140
Ser Ala Val Phe Glu Met Pro Leu Glu Glu Ala Leu Arg Leu Gly Arg
145      150      155      160

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Tyr His Pro Leu Asp Ile His Arg Arg Gly His Asp His Arg Val Trp
 165 170 175
 Leu Ser Trp Tyr Gln His Tyr Phe Val Trp Gly Met Thr Ala Gly Ile
 180 185 190
 Ile Arg Glu Leu Ala Leu Gln Ile Gly Leu Lys Pro
 195 200 205

<210> 7232

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 7232

Pro Ser Gly Glu Lys Ser Ser Ala Thr Val Phe Ser His Cys Ile Phe
 1 5 10 15
 Ala Gln Gly Leu Cys Gln Pro Leu Leu Ser Gly Ala Thr Pro Asn Ser
 20 25 30
 Asp Asp Gly Gly Thr Leu Trp Gln Ser Cys Arg Leu Thr Thr Lys Asp
 35 40 45
 Asn Glu Asp Thr Phe Met Thr Ile Thr Arg Ile Asp Ala Glu Ala Arg
 50 55 60
 Trp Ser Asp Val Val Ile His Asn Gln Thr Leu Tyr Tyr Thr Gly Val
 65 70 75 80
 Pro Ala Asn Leu Asp Ala Asp Ala Phe Glu Gln Thr Ala Asn Thr Leu
 85 90 95
 Ala Gln Ile Asp Ala Val Leu Glu Lys Gln Gly Ser Asp Lys Ser Arg
 100 105 110
 Ile Leu Asp Ala Thr Ile Phe Leu Ala Asn Lys Asp Asp Phe Ala Ala
 115 120 125
 Met Asn Lys Ala Trp Asp Ala Trp Val Val Ala Gly His Ala Pro Val
 130 135 140
 Arg Cys Thr Val Gln Ala Thr Leu Met Lys Pro Glu Tyr Lys Val Glu
 145 150 155 160
 Ile Lys Ile Ile Ala Ala Val
 165

<210> 7233

<211> 460

<212> PRT

<213> Enterobacter cloacae

<400> 7233

Ile Ile Arg Ala Asn Tyr Phe Thr Leu Pro Gly Ser Met Pro Tyr Met
 1 5 10 15
 Asn Met Arg Phe Pro Thr Val Met Thr Leu Pro Trp Arg Ala Asp Ala
 20 25 30
 Ala Glu Phe Trp Phe Ala Arg Leu Ser His Leu Pro Phe Ala Met Leu
 35 40 45
 Leu His Ser Gly His Ala Asp His Pro Tyr Ser Arg Phe Asp Ile Leu
 50 55 60
 Val Ala Asp Pro Val Lys Thr Leu Thr Thr Asp Ala Leu Ser Pro Thr
 65 70 75 80
 Asp Asp Pro Leu Met Arg Leu Gln Asn Glu Ile Asp Ala Leu Gly Leu
 85 90 95
 Thr Ala Thr Pro Asp Pro Asp Leu Pro Phe Gln Gly Gly Ala Leu Gly
 100 105 110
 Leu Phe Gly Tyr Asp Leu Gly Arg Arg Phe Glu Lys Leu Pro Glu His
 115 120 125
 Ala Gln Ala Asp Ile Ser Leu Pro Asp Met Ala Val Gly Leu Tyr Asp
 130 135 140
 Trp Ala Leu Ile Val Asp His Arg Lys Gln Thr Val Ser Leu Leu Ser

145 150 155 160
 His Arg Asp Val Gln Ala Arg Leu Ala Trp Leu Glu Ala Gln Arg Pro
 165 170 175
 Ala Ala Pro Glu His Phe Met Leu Thr Ser Gly Trp Arg Ser Asn Met
 180 185 190
 Ser Ala Glu Glu Tyr Ala Glu Lys Phe Ser Arg Val Gln Ala Tyr Leu
 195 200 205
 His Ser Gly Asp Cys Tyr Gln Val Asn Leu Ala Gln Arg Phe Gln Ala
 210 215 220
 Ala Tyr Lys Gly Asp Glu Trp Gln Ala Phe Thr Arg Leu Asn Ala Ser
 225 230 235 240
 Asn Lys Ala Pro Phe Ser Ala Phe Leu Arg Phe Glu His Gly Ala Ile
 245 250 255
 Leu Ser Leu Ser Pro Glu Arg Phe Ile His Leu Ala Asp Gly Met Ile
 260 265 270
 Gln Thr Arg Pro Ile Lys Gly Thr Leu Pro Arg Leu Ala Asn Ala Asp
 275 280 285
 Ala Asp Arg Gln Gln Ala Glu Thr Leu Ala Ala Ser Pro Lys Asp Arg
 290 295 300
 Ala Glu Asn Leu Met Ile Val Asp Leu Met Arg Asn Asp Ile Gly Arg
 305 310 315 320
 Val Ala Glu Pro Gly Ser Val Arg Val Pro Glu Leu Phe Val Val Glu
 325 330 335
 Pro Phe Pro Ala Val His His Leu Val Ser Thr Ile Thr Ala Arg Leu
 340 345 350
 Pro Ala Ser Arg Thr Ala Cys Asp Leu Leu Arg Ala Ala Phe Pro Gly
 355 360 365
 Gly Ser Ile Thr Gly Ala Pro Lys Val Arg Ala Met Glu Ile Ile Asp
 370 375 380
 Glu Leu Glu Pro His Arg Arg Asn Ala Trp Cys Gly Ser Ile Gly Tyr
 385 390 395 400
 Val Ser Leu Cys Gly Thr Met Asp Thr Ser Ile Thr Ile Arg Thr Leu
 405 410 415
 Thr Ala Cys Asp Gly Asn Leu Tyr Cys Ser Ala Gly Gly Ile Val
 420 425 430
 Ala Asp Ser Gln Val Glu Ala Glu Tyr Gln Glu Thr Phe Asp Lys Val
 435 440 445
 Asn Arg Ile Leu Lys Gln Leu Glu Asn Ser Arg
 450 455 460

<210> 7234

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 7234

His Arg Tyr Trp Asn Pro Ser Asn Pro Val Arg Ser Val Lys Val Ile
 1 5 10 15
 Ser Ile Phe Asp Met Phe Lys Val Gly Ile Gly Pro Ser Ser Ser His
 20 25 30
 Thr Val Gly Pro Met Lys Ala Gly Lys Gln Phe Val Asp Asp Leu Val
 35 40 45
 Glu Lys Gly Leu Leu Glu Ser Val Thr Arg Val Ala Val Asp Val Tyr
 50 55 60
 Gly Ser Leu Ser Leu Thr Gly Lys Gly His His Thr Asp Ile Ala Ile
 65 70 75 80
 Ile Met Gly Leu Ala Gly Asn Met Pro Asp Thr Val Asp Ile Asp Ala
 85 90 95
 Ile Pro Ala Phe Ile Arg Asp Val Glu Thr Arg Gly Arg Leu Leu Leu
 100 105 110
 Ala Asn Gly Gln His Glu Val Asp Phe Pro Gln Asp Asp Gly Met Arg

115 120 125
 Phe Arg Ser Asp Asn Leu Pro Leu His Glu Asn Gly Met Thr Ile His
 130 135 140
 Ala Trp Ser Gly Glu Lys Glu Ile Tyr Ser Lys Thr Tyr Tyr Ser Ile
 145 150 155 160
 Gly Gly Gly Phe Ile Val Asp Glu Glu His Phe Gly Lys Glu Ser Ala
 165 170 175
 Gly Asp Val Asn Val Pro Tyr Pro Phe Lys Ser Ala Thr Glu Met Leu
 180 185 190
 Gly Tyr Cys Lys Glu Thr Gly Leu Ser Leu Ser Gly Met Val Met Gln
 195 200 205
 Asn Glu Leu Ala Leu His Ser Lys Lys Glu Ile Glu Asp Tyr Phe Ala
 210 215 220
 Asn Val Trp Gln Thr Met Arg Ala Cys Ile Asp Arg Gly Met Asn Thr
 225 230 235 240
 Glu Gly Val Leu Pro Gly Pro Leu Arg Val Pro Arg Arg Ala Ser Ala
 245 250 255
 Leu Arg Arg Met Leu Val Thr Thr Asp Lys Phe Ser Asn Asp Pro Met
 260 265 270
 Asn Val Val Asp Trp Val Asn Met Phe Ala Leu Ala Val Asn Glu Glu
 275 280 285
 Asn Ala Ala Gly Gly Arg Val Val Thr Ala Pro Thr Asn Gly Ala Cys
 290 295 300
 Gly Ile Val Pro Ala Val Leu Ala Tyr Tyr Asp His Phe Ile Glu Pro
 305 310 315 320
 Val Thr Pro Asp Ile Tyr Ile Arg Tyr Phe Leu Ala Ala Gly Ala Ile
 325 330 335
 Gly Ala Leu Tyr Lys Met Asn Ala Ser Ile Ser Gly Ala Glu Val Gly
 340 345 350
 Cys Gln Gly Glu Val Gly Val Ala Cys Ser Met Ala Ala Ala Gly Leu
 355 360 365
 Ala Glu Leu Leu Gly Ala Ser Pro Glu Gln Val Cys Val Ala Ala Glu
 370 375 380
 Ile Gly Met Glu His Asn Leu Gly Leu Thr Cys Asp Pro Val Ala Gly
 385 390 395 400
 Gln Val Gln Val Pro Cys Ile Glu Arg Asn Ala Ile Ala Ser Val Lys
 405 410 415
 Ala Ile Asn Ala Ser Arg Met Ala Met Arg Arg Thr Ser Glu Pro Arg
 420 425 430
 Val Ser Leu Asp Lys Val Ile Glu Thr Met Tyr Glu Thr Gly Lys Asp
 435 440 445
 Met Asn Ala Lys Tyr Arg Glu Thr Ser Arg Gly Gly Leu Ala Ile Lys
 450 455 460
 Val Gln Cys Asp
 465

<210> 7235

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 7235

Ala Phe Leu Ser Pro Ile Cys Asn Arg Trp Ala Asn Phe Pro Leu Ser
 1 5 10 15
 Ser Arg Arg Phe Thr Tyr Ser Pro Leu His Cys His Cys Cys Val Trp
 20 25 30
 Leu Phe Trp Pro Val Leu Asn Arg Arg Pro Phe Met Gln Thr Ala Gln
 35 40 45
 Thr Ile Ile Lys Asp Tyr Arg Arg Lys Arg Val Ile Val Cys Val Thr
 50 55 60
 Val Ala Leu Val Thr Leu Val Leu Thr Leu Gly Ile Arg Phe Ile Ser

65	70										75										80											
Gln	Arg	Asn	Ile	Asn	Gln	Asp	Arg	Ile	His	Asp	Phe	Thr	His	His	Thr	Val	Arg	Ala	Leu	Asp	Lys	Val	Leu	Leu	Ser	Leu	Glu	Ala	Gln	Arg	Glu	
				85					90					95																		
Val	Arg	Ala	Leu	Leu	Asp	Lys	Val	Leu	Leu	Ser	Leu	Glu	Ala	Gln	Arg	Glu	Thr	Leu	Leu	Asp	Lys	Val	Leu	Leu	Ser	Leu	Glu	Ala	Gln	Arg	Glu	
				100					105					110																		
Thr	Leu	Leu	Ser	Leu	Val	Gly	Ile	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile	Val	Leu	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
				115					120					125																		
Leu	Arg	Lys	Gln	Ala	Ala	Ile	Leu	Gln	Thr	Val	Arg	Arg	Ser	Ile	Ala	Leu	Val	Leu	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
				130					135					140																		
Ile	Lys	Asp	Gly	Ile	Leu	Tyr	Cys	Ser	Ser	Val	Phe	Gly	Ser	Arg	Asn	Leu	Val	Leu	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
				145					150					155																		
Val	Pro	Val	Ser	Glu	Phe	Val	Pro	Glu	Leu	Pro	Val	Ser	Glu	Ser	Arg	Asn	Leu	Val	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
				165					170					175																		
Leu	Leu	Leu	Ser	Thr	Asp	Arg	Trp	Leu	Val	Lys	Gly	Ser	Pro	Val	Leu	Val	Leu	Val	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
				180					185					190																		
Ile	Gln	Trp	Ser	Pro	Val	Ala	Gly	Asp	Gly	Asn	Asp	Gly	Val	Met	Glu	Val	Leu	Val	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
				195					200					205																		
Val	Val	Asn	Ile	Asp	Leu	Ile	Thr	Lys	Met	Ile	Leu	Glu	Pro	Gln	Arg	Val	Leu	Val	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
				210					215					220																		
Pro	Gln	Ile	Thr	Asp	Val	Val	Leu	Arg	Val	Gly	Asp	Asn	Phe	Leu	Arg	Val	Leu	Val	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
				225					230					235																		
Asp	Gly	Gln	Gln	Val	Thr	Thr	Thr	Pro	Thr	Phe	Asp	Glu	Asn	Ala	Ser	Val	Leu	Val	Leu	Ser	Leu	Val	Gly	Ile	Pro	Cys	Ser	Glu	Ala	Asn	Leu	Ile
				245					250					255																		
Leu	Leu	Glu	Gln	Ser	Ser	Gln	His	Tyr	Pro	Phe	Ser	Val	Thr	Val	Ser	Val</																

Pro Ala Arg His Asn Gly His Ile Val Pro Leu Leu Pro Leu Arg
 565 570 575

<210> 7236

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 7236

Leu Arg Ser Asn Ile Leu Ser Ser Ser Ala Arg Asn Leu Phe Lys Ile
 1 5 10 15
 Leu Ser Ser Phe Leu Ile Gln Lys Asn Pro His His Glu Glu Val Cys
 20 25 30
 Val His Glu Glu Thr Thr Ala Gly Leu Trp Ala Pro Leu Pro Asp Ser
 35 40 45
 His Val Val Leu Phe Leu Asp Phe Asp Gly Val Cys His Arg Cys Lys
 50 55 60
 Asn Glu Thr Phe Glu Arg Met Pro Leu Leu Glu Lys Leu Leu Asp Asn
 65 70 75 80
 Cys Pro Ala Met Val Ile Val Ile Ser Ser Trp Arg Glu Cys Ala
 85 90 95
 Asn Thr Ser Tyr Leu Lys Ser Leu Phe Arg Val Pro Tyr Arg Asp Lys
 100 105 110
 Ile Ile Gly Ala Thr Gly Ser Val Tyr Leu Lys His Gly Gln Thr Gly
 115 120 125
 Val Arg Ala Ala Glu Cys Glu Asp Phe Val Phe Ser His Arg Val Lys
 130 135 140
 Ala Phe Ile Cys Leu Asp Asp Asp Glu Ser Leu Phe Pro Ala Gly Tyr
 145 150 155 160
 Pro His Leu His Lys Thr Asp Tyr Tyr Thr Gly Leu Thr Glu Ser Asp
 165 170 175
 Leu Ala Ala Leu Asn Ala Arg Tyr His Gln Leu Met Gly Arg
 180 185 190

<210> 7237

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 7237

Ile Arg Gln Glu Arg Asp Ile Met Leu His His Cys Gln Ala Lys Ser
 1 5 10 15
 Leu Asp Asp Ile Tyr Leu Glu Asp Ile Pro His Ile Ile His Pro Ala
 20 25 30
 Thr Ala Val His Asp Leu Glu Asp Thr Ala Leu Pro Asn Arg Ile Ile
 35 40 45
 Gln Glu Trp Asn Leu Pro Gln Gly Tyr Thr Gln Phe Val Ser Arg Tyr
 50 55 60
 His Gln Phe His His Gln Arg Pro Trp Leu Ala Tyr Arg Asp Thr Leu
 65 70 75 80
 Asp Asp Ile Arg Tyr Gly Lys Ile Val Leu Arg Lys Asp Ile Thr
 85 90 95
 Gly Asn Ala Gly Pro Gly Val Ile Ser Asn Gly Asn Leu Arg Asn Asp
 100 105 110
 Leu Pro Leu Ser Leu Phe Thr Arg Leu Arg Asp Ile Ile Ser Arg Gln
 115 120 125
 Leu Lys Arg Pro Gly Tyr Tyr Val Arg Ser Thr Thr Pro Ala Gln His
 130 135 140
 Ala Gln Ser Thr Lys Thr Ile Asn Ser Lys Ala Ala Gly Arg Leu Leu
 145 150 155 160
 Ala Ala Gly Gly Leu Tyr Asn Gly Asn Val Glu Gly Phe Arg His Thr

165 170 175
 Ala Glu Gln Leu Gly Gly Glu Ala Val Glu Gly Tyr Asp Gln Val Leu
 180 185 190
 Asn Glu Thr Thr Ser Gly Met Leu Val Ala Ala Ala Ser Leu Leu Val
 195 200 205
 Ile Arg Asn Pro Arg Ser Ala Asp Glu Leu Thr Ser Tyr Leu Gly Lys
 210 215 220
 Tyr Lys Lys Ala His Val Leu Leu Asp Asp Met Asn Val Ser Glu Leu
 225 230 235 240
 Asn Tyr Met Arg Arg Asp Arg Ala Glu Tyr Leu Pro Leu Arg Gly Thr
 245 250 255
 Ile Gln Gln Tyr Cys Thr Pro
 260

<210> 7238

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 7238

Ser Phe Leu Phe Asn Ser Gln Tyr Cys Leu Tyr Ile Gln Tyr Lys Asn
 1 5 10 15
 Ser Ser Val Ala Met Ser Val Ile Leu Glu His Ile Ser Asn Lys Pro
 20 25 30
 Tyr Glu Met Ala Pro Phe Phe Ser Asp Leu Leu Ser Cys Gly Val Met
 35 40 45
 Ser Pro Cys Ala Gly His Glu Asp Asn Glu Leu Asn Leu His Glu Tyr
 50 55 60
 Val Val Arg Asn Arg Pro Ser Thr Phe Phe Val Arg Ala Ala Gly Leu
 65 70 75 80
 Ser Met Ile Asn Ala Gly Ile Asn Asp Gly Ala Ile Leu Val Val Asp
 85 90 95
 Arg Ser Leu Thr Ala Arg His Gly Ser Ile Val Val Ala Leu Val Asp
 100 105 110
 Gly Glu Phe Thr Val Lys Ile Leu His Thr Tyr Pro Glu Leu Leu Leu
 115 120 125
 Met Pro Ser Asn Pro Ala Tyr Lys Pro Ile Arg Val Asn Pro Glu Ser
 130 135 140
 Leu Glu Ile Trp Gly Val Val Thr Phe Ala Leu Asn Gln Phe Ser His
 145 150 155 160
 Val His Ala Arg
 165

<210> 7239

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 7239

Cys Pro Met Thr Leu Ser Cys Ser Ser Thr Asp Phe Glu Asn Asp Ser
 1 5 10 15
 Asp Phe Arg Pro Ser Arg Ala Arg Cys Cys Leu Arg Phe Arg Leu Cys
 20 25 30
 Arg Ser Ile Arg Cys Val Tyr Arg Leu Leu Ile Thr Cys Ser Phe Pro
 35 40 45
 Phe Arg Arg Asp Ser Tyr Ser Gly Gln Pro Ser Val Ile His Ile Thr
 50 55 60
 Thr Ser Lys Gly Asp Ser Arg Leu Ile Arg Arg Pro Ser Val Ala Ile
 65 70 75 80
 Val Arg Ser Pro Asn Thr Cys Ala Thr Thr Val Phe Arg Ser Leu Ser
 85 90 95

Tyr Ala

<210> 7240

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 7240

```

Ile Ser Ser Ala Met Tyr Met His Val Asp Ile Asn Gly Ala Tyr Ala
1          5          10          15
Ala Phe Glu Cys Ala Met Asp Pro Lys Leu Ser Lys Lys Pro Leu Ile
20          25          30
Ile Ala Ser Asn Asn Asp Ser Ser Val Ile Ala Met Asn Lys Leu Ala
35          40          45
Lys Ser Val Gly Ile Lys Arg Gly Thr Pro Ile Phe Lys Cys Arg Asp
50          55          60
Leu Ile Gln Gln His Arg Ile Glu Val Arg Ser Ser Asn Phe Thr Leu
65          70          75          80
Tyr Glu Asp Tyr Ser Asn Arg Phe His Glu Thr Leu Glu Ser Phe Ala
85          90          95
Pro Gln Ser Ser Arg Tyr Ser Ile Asp Glu Asn Phe Met Leu Leu Lys
100         105         110
Asn Met Asn Lys Ile Ile Asp Tyr Glu Asp Tyr Gly Arg Leu Ile Arg
115         120         125
Ser Thr Leu Leu His Asn Leu Ser Leu Thr Cys Gly Val Gly Cys Ser
130         135         140
Ser Thr Lys Thr Leu Ala Lys Leu Cys Thr Tyr Ala Ser Lys Arg Trp
145         150         155         160
Ala Ala Thr Gly Gly Val Val Val Leu Thr Asp Gln Ala Arg Ile Arg
165         170         175
Lys Leu Leu Ser Leu Ile Ser Thr Arg Glu Ile Trp Gly Ile Gly Arg
180         185         190
Lys Ile Ser Glu Arg Leu Ser Ala Phe Gly Ile Ile Thr Ala Gly Asp
195         200         205
Phe Tyr Asn Ser Asp Val Arg Phe Leu Arg Lys Ser Phe Gly Val Glu
210         215         220
Ile Glu Arg Thr Trp Arg Glu Leu His Gly Glu Pro Cys Phe Arg Leu
225         230         235         240
His Glu Ser Pro Pro Val Arg Gln Gln Ile Ile Val Ser Arg Ser Phe
245         250         255
Gly Gln Arg Leu Asn Glu Ile Gly Lys Leu His Glu Ala Val Ser Phe
260         265         270
Phe Thr Ala Arg Ala Ala Glu Gln Leu Arg Lys Asp Gly Ser Trp Thr
275         280         285
Arg Gln Ile Thr Val Phe Ile Gln Ser Ser Asn Tyr Ala Gln Gly Glu
290         295         300
Asn Arg Tyr Ser Asn Cys Gly Ile Glu Pro Leu Thr Ala Thr Gln Asp
305         310         315         320
Thr Arg Asp Leu Val Asp Ala Ala Met Thr Ile Leu Asn Arg Ile Tyr
325         330         335
Arg Pro Gly Ile Ala Tyr Ala Lys Ala Gly Val Met Leu Ser Ala Met
340         345         350
Thr Asp Gly Thr Glu Gln Leu Ser Leu Phe Asp Thr Arg Pro Ala Arg
355         360         365
Pro Gly Ser Gln Ala Leu Met Lys Val Met Asp Arg Phe Asn Lys Glu
370         375         380
Lys Arg Gly Ala Leu Phe Leu Leu Gly Glu Gly Ile Gln Gln Asp Phe
385         390         395         400
Arg Met Lys Gln Ala Met Leu Ser Pro Arg Tyr Thr Thr Arg Trp Asp
405         410         415

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Glu Leu Leu Val Val Lys Ala
420

<210> 7241

<211> 190

<212> PRT

<213> Enterobacter cloacae

<400> 7241

```

Ile Lys Arg Arg Phe Ser Gly Glu Ile Val Val Phe Thr Pro Pro Ala
1      5      10      15
Asp Asp Val Lys Pro Ile Pro Val Pro Asp Glu Ile Tyr Thr Gln Cys
20      25      30
Ile Thr Asp Ala Ala Arg Tyr Phe Gly Ile Asp Ala Glu Leu Val Phe
35      40      45
Thr Leu Phe Asp Asn Glu Gly Gly Lys Val Gly Thr Phe Ser Arg Asn
50      55      60
Thr Asn Gly Thr Tyr Asp Ile Gly Pro Met Gln Ile Asn Ser Ser Asn
65      70      75      80
Leu Pro Glu Ile Lys Lys His Phe Pro Thr Val Thr Trp Arg Val Leu
85      90      95
Ala Tyr Asp Ala Cys Ala Ser Phe Trp Val Gly Thr Trp Trp Leu Tyr
100     105     110
Arg Lys Ile Val Asp Arg Lys Gly Asn Val Phe Glu Gly Ile Ala Asp
115     120     125
Tyr Asn Ser Lys Thr Pro Lys Val Arg Ala Lys Tyr Ile Phe Asn Phe
130     135     140
Met Val Lys Tyr Asn Arg Arg Ile Gln Gln Arg Asn Gly Met Gly Glu
145     150     155     160
Leu Tyr Gln Trp Thr Gln Gln Pro Pro Arg Tyr Asn Gly His Ile Ala
165     170     175
Lys Asn Val Pro Glu Gln Asn Pro Thr Pro Val Val Lys
180     185     190

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<210> 7242

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 7242

```

Asn Phe Ala Thr Gly Lys Val Pro Ser Gly Trp Gln Val His His Lys
1      5      10      15
Ile Pro Leu Asp Asp Gly Gly Thr Asn Ala Ile Asp Asn Leu Val Leu
20      25      30
Ile Gln Asn Ser Pro Tyr His Ser Ala Leu Ser Lys Ala Gln Ser Ile
35      40      45
Ile Thr Lys Asp Leu Pro Tyr Asn Ser Ser Thr Lys Val Leu Trp Pro
50      55      60
Ser Pro Asn Gly Val Ile Tyr Pro Val Gly Lys
65      70      75

```

<210> 7243

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 7243

```

Glu Ala Leu Met Lys Asp Leu Thr Gln Leu Leu Ser Ser Leu Lys Arg
1      5      10      15
Leu Met Val Ala Asp His Tyr Pro Leu Ala Ser Pro Val Ala Pro Glu
20      25      30

```

```

Val Leu Lys Asp Leu Ile Cys Asn Pro Pro Pro Val Glu Trp Ala Asp
      35      40
His Lys Lys Ser Ala Tyr Ile Asp Ile Gln Lys Leu Ile Lys Thr Arg
      50      55      60
Leu Asp Tyr Ala Gln Val Phe Asn Ala Met Asp Gly Phe Glu Tyr Asn
65      70      75      80
Gly Leu Thr Phe Tyr Asn Leu Val Gln Ala Glu Asn Glu Asn Leu Leu
      85      90      95
Trp Ser Asn Ile Tyr Ile Arg Asn Phe Glu Ala Arg Asp Asn Glu Ile
      100      105      110
Tyr Val Asp Pro Asn Leu Thr Asp Lys Val Leu Ile Gly Glu Asp Gly
      115      120      125
Met Ser Leu Phe Ala Tyr Ser Phe Ala Asp Asp Cys Phe Gln Ile Arg
      130      135      140
Asp Lys Ala Ser Thr Asp Tyr Val Ile Glu Ser His Thr Glu Phe Asp
145      150      155      160
Arg Phe Leu Ser Ser Leu Ile Gln Thr Val Ser
      165      170

```

<210> 7244

<211> 500

<212> PRT

<213> Enterobacter cloacae

<400> 7244

```

Trp Thr Lys Asn Ser Lys Ala Met Thr Cys Leu Arg Pro Ile Arg Ser
1      5      10      15
Ile Ile Ser Met Leu Ala Ala Val Leu Glu Ala Leu Met Arg Ser Asn
      20      25      30
Ala Val Phe Asn Phe Lys Lys Leu Leu Ser Leu Ser Val Cys Ala
      35      40      45
Ala Ile Leu Ala Pro Thr Ala Asn Ala Asp Asn Ala Met Arg Asn Ile
      50      55      60
Phe Asn Gly Met Met Thr Ser Thr Ser Pro Ala Thr Phe Ser Thr Ala
65      70      75      80
Thr Arg Thr Gly Ile Val Gly Gly Ser Met Ser Tyr Arg Thr Thr Asn
      85      90      95
Val Asn Thr Asn Leu Val Ser Met Ser Phe Pro Lys Ala Ser Val Gly
      100      105      110
Cys Asn Gly Ile Asp Val Phe Leu Gly Ser Phe Ser Met Ile Asn Gly
      115      120      125
Asp Gln Leu Val Gln Val Ala Arg Gly Ile Ala Gln Gly Ala Ala Ile
      130      135      140
Tyr Ala Phe Asn Val Ala Val Ser Ala Ile Cys Ala Asp Cys Ala Ala
145      150      155      160
Thr Ile Asn Asp Ile Gln Asn Lys Leu Gln Ala Leu Asn Lys Phe Ala
      165      170      175
Lys Asp Ser Cys Asn Ala Thr Tyr Ser Phe Leu Ser Glu Asn Val Gly
      180      185      190
Thr Pro Ser Gln Phe Ala Asn Ser Val Ser Ser Gly Pro Ala Ser Ile
      195      200      205
Leu Gly Ser Ile Asn Gly Leu Ile Pro Asp Phe Gly Ser Ser Met Thr
      210      215      220
Lys Ser Pro Glu Ala Val Thr Ser Gln Val Lys Ala Lys Asp Pro Glu
225      230      235      240
Glu Phe Ala Glu Lys Phe Ser Gly Asn Leu Phe Tyr Met Ser Phe Met
      245      250      255
Asp Ile Asp Lys Gly Thr Met Asn Ile Gly Gly Val Thr Glu Leu Ser
      260      265      270
Gly Tyr Lys Leu Ala Glu Gln Leu Met Ser Leu Val Gly Thr Val Ile
      275      280      285

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Ile Asn Trp Asp Ser Lys Gly Glu Lys Ala Gly Met Glu Val Arg Pro
290 295 300
Ser Thr Met Thr Val Thr Asp Tyr Ile Met Gly Pro Pro Ala Gly Gly
305 310 315 320
Ser Ile Lys Met Leu Lys Cys Ser Pro Ala Pro Asp Pro Ser Ser Pro
325 330 335
Arg Lys Ala Gln Cys Leu Val Met Ser Glu Val Asn Asp Gly Gly Phe
340 345 350
Lys Gly Leu Lys Asp Thr Ile Ser Asp Leu Leu Leu Asn Val Gln Lys
355 360 365
Lys Ile Asn Asp Val Arg Val Ser Asp Asp Glu Leu Arg Ile Ile
370 375 380
Ser Tyr Ile Gly Ile Pro Thr Ile Ile Asp Ser Leu Gln Thr Phe Glu
385 390 395 400
Ala Pro Glu Gly Tyr Ala Tyr Ile Gln Asp Ile Ser Thr Ile Ala Ala
405 410 415
Thr Ser Leu Val Ile Asn Met Leu Arg Gln Val Glu Ala Lys Ile Ser
420 425 430
Thr Met Ser Ile Pro Ser Glu Ser Leu Ser Gly Lys Arg Asp Asp Leu
435 440 445
Asn Arg Leu Thr Asp Asn Leu Ser Lys Gln Val Lys Ala Ala Tyr Glu
450 455 460
Leu Ser His Ser Gln Val Gly Thr Ser Ser Asp Val Ile Ser Thr Trp
465 470 475 480
Asp Asn Arg Arg Leu Gln Arg Lys Ala Phe Thr Glu Ser Ile Arg Gly
485 490 495
Thr Arg Asn
500

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<210> 7245

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7245

```

Gly Ala Pro Val Ala Ser Val Ser Ile Ser Cys Pro Ser Cys Ser Ala
1 5 10 15
Thr Asp Gly Val Val Arg Asn Gly Lys Ser Thr Ala Gly His Gln Arg
20 25 30
Tyr Leu Cys Ser His Cys Arg Lys Thr Trp Gln Leu Gln Phe Thr Tyr
35 40 45
Thr Ala Ser Gln Pro Gly Thr His Gln Lys Ile Ile Asp Met Ala Met
50 55 60
Asn Gly Val Gly Cys Arg Ala Thr Ala Arg Ile Met Gly Val Gly Leu
65 70 75 80
Asn Thr Ile Phe Arg His Leu Lys Asn Ser Gly Arg Ser Arg
85 90 95

```

<210> 7246

<211> 653

<212> PRT

<213> Enterobacter cloacae

<400> 7246

```

Thr Val Ser Ala Ile Trp Tyr Asp Ser Pro Asn Ile Arg Ile Trp Lys
1 5 10 15
Glu Arg Tyr Met Gly Asp Leu Val Ser Lys Asn Asn Ile Asp Arg Leu
20 25 30
Glu Arg Phe His Ser Leu Leu Ala Gly Gln Tyr Trp Thr Ser Thr Asp
35 40 45
Ser Ile Pro Glu Glu Gly Ile Val Ala Gly Asp Thr Leu Leu Ile Thr

```

50	55	60
Ser Leu Arg Tyr Val Glu	Asp Lys Leu His Thr	Val Ile Leu Arg Ala
65	70	75
His Pro Arg Val Tyr Gly	Gln Thr Val Ala Ile Val Thr	Glu Asp Ser
85	90	95
Ser Gly Asn Arg Arg Glu	Arg Gly Lys Glu Met Arg	Glu His Arg Phe
100	105	110
Leu Val Lys Asp Phe Leu	Ser Ser Phe Val Phe	Glu Pro Asp His Lys
115	120	125
Val Ile Arg Asp Ala Glu	Leu Arg Gln Ala Gln	Glu Glu Val Asn Ser
130	135	140
Leu Gln Ala Ser Leu Thr	Ala Leu Val Ser Asp	Ala Gln Gly Leu Arg
145	150	155
Asp Leu Ala Ile Glu Gln	Leu Gly Thr Asp Asp	Arg Glu Asn Pro Val
165	170	175
Thr Gly Leu Ser Val Ala	Leu Val Pro Pro	Gln Glu Gln Ala Val
180	185	190
Thr Ser Leu Ala Ile Gly	Ser Val Gln Asn Ala Leu	Ser Ser Gly Ile
195	200	205
Ser Asp Thr Arg Ile Glu	Gln Ile Arg Glu Ala Ala	Leu Lys Glu Gly
210	215	220
Gln Ile Ser Thr Ala Ile	Ser Lys Ile Ile Thr	Gln Arg Thr Gln Ala
225	230	235
Ile Ala Asn Ala Ser Lys	Arg Met Leu Pro Tyr	Phe Glu Glu Val Ala
245	250	255
Ala Ala Ser Leu Ala Thr	Thr Glu Glu Ala Met	Glu Tyr Val Lys Lys
260	265	270
Ile His Asp Gly Val Gly	Ser Leu Glu Leu Tyr Thr	Gly Lys Asp Val
275	280	285
Glu Val Val Asn Ile Val	Lys Gly Glu Ser Ala Pro	Ser His Leu Pro
290	295	300
Leu Gln Val Val Gln Ala	Lys Leu Met Val Asp	Glu Glu Leu Ala Val
305	310	315
Trp Cys Asp Leu Asp Ser	Trp Phe Asp Phe Ser	Asp Met Glu Lys Phe
325	330	335
His Glu Thr Leu Arg Thr	Ser Pro Gly Leu Val	Gln Ile Phe Pro
340	345	350
Ser Glu Arg Ser Ile Val	Cys Met Ala Thr Thr	Arg Arg Tyr Ile Asp
355	360	365
Tyr Arg Asp Pro Trp Glu	Asn His Val Arg Asn	Asp Arg Asn Arg Val
370	375	380
Val Phe Leu Leu Val Arg	Asp Gly Gln Asn Ile	His Gln Val Tyr Cys
385	390	395
Ser Val Glu Ser His Leu	Gly Ala Ser Gln Leu	Phe Pro Ser Ala Ser
405	410	415
Glu Gln Glu Ala His Phe	Gln Gly Ile Asp Gly	Ser Thr Ile Lys Phe
420	425	430
Glu Asp Val Ser Tyr Thr	Asp Arg Leu Lys Gln	His Asp Leu Met Ala
435	440	445
Leu His Tyr Arg Arg Phe	Leu Ile Leu Ile Cys	Gly Leu Asp His Arg
450	455	460
Leu Lys Leu Phe Gly Asp	Phe Tyr Asp Thr Asn	Thr Pro Tyr Ser Phe
465	470	475
Leu Ser Leu Glu Phe Gln	Glu Arg Tyr Phe Gln	Phe Leu His Asp Lys
485	490	495
Asp Gly Ser Gly Leu Leu	Gly Met Ala Glu Thr	Arg Pro Ser Leu Gln
500	505	510
Ser Tyr Leu Glu Gln Ala	Asn Ser Cys Leu Gln	Ser Gly Ser Arg Val
515	520	525
Met Cys Asn Trp Asp Ser	Leu Met Asn Pro Val	Thr Ala Pro Gly Ala
530	535	540

Val Gln Glu Asp Asn Ser Tyr Ser Gly Tyr Lys Trp Leu Gly Arg Thr
 545 550 555 560
 His Lys Asn Tyr Glu Pro Val Ile Ala Phe Arg Gln Gly Asp Asp Ile
 565 570 575
 Cys Val Asn Ala Thr Val Asn Arg Tyr Ser Thr Asp Arg Asp Phe Asn
 580 585 590
 Cys Lys Val Asn Leu Ser Leu Phe Lys Glu Ser Ser Arg Asn Asp Ala
 595 600 605
 Glu Leu Gly Phe Leu Cys Met Asp Thr Ile Lys Ala Glu Glu Leu Glu
 610 615 620
 Trp Tyr Ile His Arg Arg Lys Phe Arg Ser Asn His Leu Phe Tyr Ile
 625 630 635 640
 Arg Phe Phe Lys Met Val Leu Pro Thr Val Gln Asn
 645 650

<210> 7247

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 7247

Ser Ala Pro Leu Asn Thr Gly Glu Leu Met Ile Thr Phe Glu Ile Arg
 1 5 10 15
 Met Glu Ile Lys Val Leu His Lys Arg Gly Met Ser Ile Arg Ala Ile
 20 25 30
 Ala Arg Glu Leu Gly Ile Ser Arg Asn Thr Val Arg Ser His Leu Lys
 35 40 45
 Ala Lys Ser Glu Lys Pro Gln Tyr Ser Pro Arg Pro Ala Pro Ser Ser
 50 55 60
 Leu Leu Asp Glu Tyr Arg Asp Tyr Ile Ser Lys Arg Ile Ser Asp Ala
 65 70 75 80
 His Pro Tyr Lys Ile Pro Ala Thr Val Ile Ala Arg Glu Ile Met Glu
 85 90 95
 Leu Gly Tyr Arg Gly Arg Ala Phe
 100 105

<210> 7248

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 7248

Gly Ala Glu Met Lys Lys Ile Ile Lys Ala Ser Val Leu Leu Ser
 1 5 10 15
 Leu Ser Thr Ala Phe Thr Met Asn Ala Glu Pro Val Asn Thr Met Val
 20 25 30
 Leu Pro Asp Ala Ala Arg Asp Lys Leu Lys Ala Ile Gly Leu Ser Ile
 35 40 45
 Glu His Val Glu Pro Ser Pro Val Lys Asp Ile Phe Thr Val Ile Ser
 50 55 60
 Arg Glu Gly Val Ser Tyr Val Ser Lys Asp Gly Asp Tyr Ile Phe Thr
 65 70 75 80
 Gly Ser Leu Phe His Val Lys Gly Lys Asp Val Val Asn Thr Thr Glu
 85 90 95
 Gln Ala Ile Leu Met Gly Val Arg Glu Phe Ala Ser Lys Thr Lys Ser
 100 105 110
 Ile Asp Tyr Lys Ser Pro Asn Glu Lys Tyr Arg Leu Ala Ile Phe Thr
 115 120 125
 Asp Ile Thr Cys Gly Tyr Cys Gln Lys Leu His His Asp Leu Lys Ser
 130 135 140
 Tyr Leu Asp Ala Gly Ile Ser Ile Lys Phe Leu Ala Phe Pro Arg Ala

145 150 155 160
 Gly Leu Asn Ser Val Val Ala Gly Asn Met Ala Lys Ile Trp Cys Ser
 165 170 175
 Ala Lys Pro Asn Glu Ala Leu Asp Ala Ala Met Asn Pro Val Ser Thr
 180 185 190
 Ile Pro Glu Gly Arg Pro Asp Glu Ala Cys Leu Asn Ile Ile Lys Ser
 195 200 205
 His Phe Gln Val Ala Ser Thr Ile Pro Leu Gln Gly Thr Pro Thr Met
 210 215 220
 Val Thr Leu Ser Gly Lys Pro Gln Leu Phe Thr Gly Trp Leu Ser Pro
 225 230 235 240
 Glu Asn Leu Val Thr Gln Met Gly Ala Ala Gln Lys
 245 250

<210> 7249

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 7249

Ser Pro Lys Ser Ile Val Ser Arg Ile Ile Pro Ile Tyr Arg Ala Ser
 1 5 10 15
 Ile Ile His Arg Arg Leu Ile Thr Asn Arg Leu Lys Ser Ile Lys Val
 20 25 30
 Ala Met Ser Lys Glu Phe Tyr Leu Lys Pro Met Ala Thr Ile Leu Ile
 35 40 45
 Ser Ala Val Ile Ala Thr Ala Ala Ser Ala Leu Ile Thr Ala Thr Tyr
 50 55 60
 Phe Lys Pro Lys Val Leu Ser Glu Glu Glu Ile Gly Lys Ile Ala Ala
 65 70 75 80
 Thr Tyr Leu Val Lys Asn Pro His Tyr Leu Val Glu Ala Gly Lys Ala
 85 90 95
 Leu Glu Asn Gln Asn Val Ser Ala Ser Val Glu Arg Ile Ile Pro Tyr
 100 105 110
 Ala Pro Ala Leu Leu Asp Thr Lys Glu Thr Pro Asn Ile Gly Pro Asp
 115 120 125
 Asp Ala Asp Val Ala Val Ile Glu Phe Phe Asp Tyr Gln Cys Ile Tyr
 130 135 140
 Cys Met Arg Val Thr Pro Val Val Glu Ser Val Met Asn Gln Ser Lys
 145 150 155 160
 Asp Val Lys Phe Phe Phe Lys Glu Phe Pro Ile Phe Ala Gly Ser Lys
 165 170 175
 Pro Val Ser Ala Met Gly Ala Ala Thr Gly Leu His Val Tyr Gln Asn
 180 185 190
 Phe Gly Ala Glu Ala Tyr Arg Lys Tyr His Asn Asn Leu Met Ala Val
 195 200 205
 Ala His Thr Phe Met Thr Ser Gln Arg Lys Phe Glu Leu Thr Asp Phe
 210 215 220
 Asn Thr Val Val Glu Lys Ser Gly Phe Asn Ser Thr Phe Ser Asp Arg
 225 230 235 240
 Glu Lys Asn Arg Tyr Glu Asn Val Ile Ser Gly Asn Met Gln Leu Gly
 245 250 255
 Glu Ala Leu Gly Ile Thr Gly Thr Pro Gly Phe Ile Ile Met Asn Met
 260 265 270
 Lys Lys Pro Asn Ala Ala Thr Thr Thr Phe Ile Pro Gly Ala Met Asp
 275 280 285
 Ala Ala Thr Leu Gln Gly Ala Ile Glu Lys Ala Arg Gly Ala
 290 295 300

<210> 7250

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 7250

Cys Cys Gln Leu Thr Asp Leu Val Tyr Asp Gly Val Phe Glu Val Leu
 1 5 10 15
 Gln Trp Leu Leu Phe Leu Ser Ala Val Pro Val Gln Leu Leu Thr
 20 25 30
 Gly Trp Cys Val Thr Ala Lys Ala Leu Pro Asp Ile Ser Ala Ile Ser
 35 40 45
 Ala Leu Thr Ala Val Lys His Gly Asn Cys Ser Ser Leu Thr Pro Leu
 50 55 60
 Leu Asn Pro Val Arg Thr Arg Lys Ser Leu Ile Trp Pro
 65 70 75

<210> 7251

<211> 1321

<212> PRT

<213> Enterobacter cloacae

<400> 7251

Leu Arg Ser Asp Met Asp Tyr Asn Ile Tyr Thr Leu Gly Asp Ile Asp
 1 5 10 15
 Phe Val Trp Ser Ala Phe Thr Gly Ile Ala Leu Ile Phe Ser Gln Tyr
 20 25 30
 Thr Gly Val Lys Glu Phe Leu Thr Thr Ala Ala Val Val Ala Gly Val
 35 40 45
 Ser Leu Phe Tyr Lys Thr Trp Leu Trp Leu Gln Ala Pro Thr Lys Asn
 50 55 60
 Glu Leu Pro Phe Phe Ser Trp Phe Leu Gly Leu Ile Leu Phe Met Met
 65 70 75
 Ala Met Val Arg Val Asp Val Thr Ile Glu Ser Val Lys Ser Gly Glu
 85 90 95
 Val Arg Asn Val Asp Gly Ile Pro Ile Phe Ile Ala Ala Met Ala Thr
 100 105 110
 Val Thr Thr Asn Leu Ser Gln Gly Leu Leu Lys Asp Tyr Lys Thr Ala
 115 120 125
 Phe Asp Pro Leu Ser Pro Val Asp Leu Ser Ala Thr Thr Leu Asp Asp
 130 135 140
 Asp Ile Thr Leu Gly Pro Met Ile Arg Phe Val Lys Phe Leu Gln Trp
 145 150 155 160
 Gly Gly Asp Ser Gln Gly Tyr Cys Ser Ala Phe Pro Glu Pro Ala Ser
 165 170 175
 Gly Leu Gly Pro Met Asn Val Cys Ala Thr Val Gln Ser Leu Ala Tyr
 180 185 190
 Asn Cys Leu Lys Ala Thr Gln Asn Ser Ser Ala Asn Ile Ala Gly Lys
 195 200 205
 Glu Thr Ile Phe Asn Asp Ile Phe Ser Ala Asn Leu Ala Asp Ser Met
 210 215 220
 Asp Arg Ile Asn Gln Ala Met Lys Gly Ala Leu Lys Asn Ala Ser Ala
 225 230 235 240
 Ser Ile Val Gly Ala Asn Gly Ser Lys Ser Gly Thr Cys Asp Glu Val
 245 250 255
 Trp Ser Thr Val Lys Gln Val Thr Ser Thr Ala Glu Ala Arg Gln Thr
 260 265 270
 Ile Ser Leu Ile Gly Gln Thr Asn Gly Ile Leu Thr Pro Asp Glu Ala
 275 280 285
 Asn Gly Ala Pro Thr Gly Ala Ser Phe Thr Asp Val Met Ala Ser Ala
 290 295 300
 Asn Gly Met Tyr Gly Lys Ala Ile Gly Ser Tyr Asp Ala Thr Leu Asn
 305 310 315 320

Leu Phe Ile Met Asn Glu Leu Arg Asn Gly Ala Ser Lys Tyr Lys Thr
 325 330 335
 Pro Leu Gly Leu Ala Ser Asp Met Gln Leu Phe Glu Ala Ser Leu Lys
 340 345 350
 Arg Thr Asn Thr Met Ala Ser Gln Gly Gln Leu Trp Leu Gln Leu Ser
 355 360 365
 Gly Ala Ala Ile Ala Phe Leu Glu Met Phe Ala Tyr Met Val Ala Pro
 370 375 380
 Phe Ala Leu Leu Met Leu Leu Ala Leu Gly Gly Asn Gly Val Ala Ala
 385 390 395 400
 Ala Ala Lys Tyr Leu Gln Leu Ile Leu Phe Val Asn Met Trp Pro Leu
 405 410 415
 Thr Ala Val Met Val Asn Ala Tyr Val Lys Lys Val Ala Thr Ala Asp
 420 425 430
 Leu Asp Thr Trp Ser Thr Leu Asn Ser Gln Asn Asn Ala Val Thr Trp
 435 440 445
 Met Gly Leu Pro Gly Leu Ala Glu Thr Tyr Ser Ser Tyr Leu Ser Val
 450 455 460
 Ala Ser Ala Leu Tyr Ala Leu Ile Pro Val Leu Thr Leu Phe Leu Met
 465 470 475 480
 Thr Gln Ser Ile His Pro Met Met Asn Ala Val Lys Gly Val Thr Pro
 485 490 495
 Asp Ala Pro Val Asp Thr Gly His Val Thr Pro Lys Val Trp Asp Gly
 500 505 510
 Pro Asn Ser Gly Lys Ser Ser Phe Gly Asp Val Thr Arg Thr Ala Leu
 515 520 525
 Thr Ser Thr Gly Gln Gly Tyr Ser Asp Gly Gly Ala Val Asp Ser Ser
 530 535 540
 Asn Phe Arg Leu Gly Met Trp Asn Ala Gly Ser Ser Ile Ala Asn Ser
 545 550 555 560
 Gln Gly Gln Gly Ser Ala Val Thr Ser Ser Val Met Ser Ala Ala Ser
 565 570 575
 Asn Ser Phe Gln Ala Gly Tyr Ser Gln Met Ser Glu Ile Gly Arg Ser
 580 585 590
 Gly Gln Ser Ser Gln Gln Phe Ser Thr Asn Leu Gln Thr Met Lys Gln
 595 600 605
 Ile Ser Asp Lys Ile Gly Ala Ser Val Ala Glu Gly Ile Ala Thr Lys
 610 615 620
 His Gly Val Ser Ala Ser Gln Met Ala Ser Ile Ala Ser Asn Val Ile
 625 630 635 640
 Leu Asn Ala Gly Leu Asn Gly Gly Val Gly Thr Gly Asn Gly Ala Gly
 645 650 655
 Leu Lys Ala Ala Val Ala Gly Gln Leu Ser Ser Gly Ala Ser Lys Thr
 660 665 670
 Asn Thr Gly Ser Asp Ser Leu Ser Asn Asp Leu Ser Lys Ala Ile Thr
 675 680 685
 Asn Gln Leu Ser Gln Asp Ser Ala Leu Thr Asp Gln Phe Ser Lys Ala
 690 695 700
 Ala Ser Gln Val Ser Ser Asp Gln Ile Ser Asn Thr Asn Ala Phe Lys
 705 710 715 720
 Glu Ala Ser Ser Lys Met Asn Gln Ala Thr Gln Thr Met Ala Gln Asn
 725 730 735
 Ile Ser Thr Ser Val Ser Thr Asn Ala Ser Ser Asn Ser Gly Met Ser
 740 745 750
 Leu Asp Ser Lys Gln Ser Ile Asn Leu Asp Arg Phe Ser Asp Ser Ile
 755 760 765
 Arg Asn Lys Asn Phe Ser Asp Asp Val Arg Asn Phe Ala Arg Lys
 770 775 780
 Asn Gly Leu Asp Glu Asn Ala Phe Met Glu Lys Phe Asn Ser Tyr Asn
 785 790 795 800
 Asp Thr Phe Lys Ala Ser Asn Gln Leu Gly Ser Gln Leu Gln Arg Thr

				05						810						815
Asp	Ala	Leu	Val	Ala	Ala	Thr	Arg	Asp	Phe	Ser	Glu	Gln	Lys	Ile	Ala	
		820						825					830			
Ile	Asp	Thr	Ala	Arg	Gly	Glu	Thr	Ala	Glu	Ser	Asn	Lys	Gln	Asp	Leu	
		835						840				845				
Arg	Glu	Thr	Ser	Ser	Leu	Leu	Lys	Ser	Leu	Val	Ser	Asp	Phe	Gly	Gly	
		850					855				860					
Asn	Ala	Gln	Gln	Leu	Leu	Pro	Ile	Thr	Asn	Gln	Leu	Asp	Arg	Ile	Ser	
		865					870			875					880	
Gly	Asp	Gly	Ser	Gly	Ile	Asn	Thr	Ile	Thr	Gln	Ala	Gln	Asp	Arg	Thr	
				885					890					895		
Pro	Asp	Ser	Val	Asn	Thr	Ser	Gly	Val	Met	Ser	Ala	Ser	Arg	Val	Gly	
			900					905					910			
Glu	Leu	Gly	Gly	Ser	Val	Asp	Ser	Gln	Ala	Lys	Leu	Gly	Leu	Ser	Ser	
		915						920				925				
Asn	Ala	Gln	Asp	Ala	Thr	Gln	His	Val	Pro	Gly	Lys	Ser	Glu	Ala	Gly	
		930					935				940					
Phe	Thr	Pro	Tyr	Asn	Leu	Asp	Asn	Ala	Gly	Lys	Gly	Asp	Ile	Gln	Gly	
		945			950					955					960	
Ile	His	Asn	Asn	Asn	Val	Gly	Arg	Thr	Tyr	Ser	Asp	Glu	Glu	Arg	Asn	
				965					970					975		
Val	Leu	Asn	Ser	Ser	Glu	Lys	Asn	Gly	Pro	Val	Leu	Asn	Asn	Gln	Gly	
		980						985					990			
Val	Glu	Lys	Val	Val	Asn	Ser	Gly	Gln	Asp	Val	Arg	Asn	Ala	Glu	Gly	
		995					1000					1005				
Thr	Phe	Asn	Asp	Leu	Glu	Lys	Val	Gly	Gly	Arg	Val	Val	Gly	Asp	Gly	
		1010				1015					1020					
Met	Asp	Gln	Arg	Ala	Thr	Ala	Leu	Asn	Ser	Met	Tyr	Gln	Ser	Gly	Gln	
		1025			1030					1035					1040	
Val	Arg	Gly	Leu	Ser	Asn	Asn	Thr	Asp	Asn	Tyr	Phe	Ser	Arg	Val	Ala	
			1045						1050					1055		
Asn	Asn	Pro	Asn	Leu	Ser	Arg	Asp	Asp	Lys	Arg	Ala	Glu	Leu	Ala	Gln	
			1060					1065					1070			
Gln	Ala	Val	Phe	Thr	Tyr	Gly	Ala	Ser	Thr	Met	Ala	Thr	Gly	Ala	Glu	
		1075					1080					1085				
Arg	Glu	Gln	Leu	Lys	Ala	Asp	Thr	Gln	Lys	Ile	Leu	Asn	Glu	Leu	Gly	
		1090				1095				1100						
Asn	Tyr	Asn	Val	Asn	Trp	Ser	Met	Asn	Asp	Val	Lys	Ser	Ile	His	Ser	
		1105			1110					1115					1120	
Ser	Phe	Asn	Thr	His	Asn	Arg	Ala	Asp	Gly	Ser	Leu	Glu	Ser	Val	Val	
			1125						1130					1135		
Arg	Ala	Asn	Leu	Gly	Glu	Gly	Gly	Ser	Gly	Gly	Gly	Leu	Val	Gly	Asn	

Leu Ser Asn Thr Asn Glu Pro Tyr Gln Ser Arg Val Asp Lys Ala Asp
 1300 1305 1310
 Gln Trp Leu Asn Glu Asn Lys Lys
 1315 1320

<210> 7252

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7252

Tyr Gly His Glu Trp Arg Trp Met Pro Gly Asn Arg Pro His Tyr Gly
 1 5 10 15
 Arg Trp Pro Gln His Asp Phe Pro Pro Phe Lys Lys Leu Arg Pro Gln
 20 25 30
 Ser Val Thr Ser Arg Ile Gln Pro Gly Ser Asp Val Ile Val Cys Ala
 35 40 45
 Glu Met Asp Glu Gln Trp Gly Tyr Val Gly Ala Lys Ser Arg Gln Arg
 50 55 60
 Trp Leu Phe Tyr Ala Tyr Asp Arg Leu Arg Lys Thr Val Val Ala His
 65 70 75 80
 Val Phe Gly Glu Arg Thr Met Ala Thr Leu Gly Arg Leu Met Ser Leu
 85 90 95
 Leu Ser Pro Phe Asp Val Val Ile Trp Met Thr Asp Gly Trp Pro Leu
 100 105 110
 Tyr Glu Ser Arg Leu Lys Gly Lys Leu His Val Ile Ser Lys Arg Tyr
 115 120 125
 Thr Gln Arg Ile Glu Arg His Asn Leu Asn Leu Arg Gln His Leu Ala
 130 135 140
 Arg Leu Gly Arg Lys Ser Leu Ser Phe Ser Lys Ser Val Glu Leu His
 145 150 155 160
 Asp Lys Val Ile Gly His Tyr Leu Asn Ile Lys His Tyr Gln
 165 170 175

<210> 7253

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 7253

Lys Arg Ile Thr Lys Leu Ser Leu His Trp Arg Ala Asn Val Val Glu
 1 5 10 15
 Gln Val Ser Gly Ile Leu Thr Arg Trp Arg Gln Phe Gly Arg Arg Tyr
 20 25 30
 Phe Trp Pro His Leu Leu Leu Gly Met Val Ala Ala Ser Leu Gly Leu
 35 40 45
 Pro Val Leu Ser Asn Ser Ala Asp Ala Ala Thr Pro Ala Arg Ser Thr
 50 55 60
 Thr Thr Lys His Asp Leu Thr Thr Arg Val Asn Phe Thr Asn Leu Ala
 65 70 75 80
 Trp Leu Glu Ala Ser Arg Arg Leu Asn Phe Ser Val Asp Tyr Trp Gln
 85 90 95
 Gln His Ala Asn Pro Thr Val Asn Arg His Leu Ser Phe Ala Arg Ala
 100 105 110
 Pro Thr Arg Met Leu Val Ala Glu Lys Asn Leu Pro Val Gln Ala Gln
 115 120 125
 His Leu Gly Leu Val Gln Ser Pro Asn Ala Ala Leu Asn Pro Gly Asn
 130 135 140
 Gln Pro Ala Ile Glu Pro
 145 150

<210> 7254

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 7254

```

Ile His Ala Asp Gly Arg Ser Val Val Lys Thr Leu Cys Met Cys Gly
1          5          10          15
His Asn Ile Ile Gly Ala Phe Thr Ala Phe Lys Ser Gly His Ala Leu
          20          25          30
Asn Asn Lys Leu Leu Gln Ala Val Leu Ala Lys Gln Glu Ala Trp Glu
          35          40          45
Tyr Val Thr Phe Glu Asp Glu Ala Glu Leu Pro Leu Ala Phe Lys Ala
          50          55          60
Pro Thr Met Val Leu Ala
65          70

```

<210> 7255

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 7255

```

Cys Leu Met Glu Ser Asp Val Met Thr Gln Pro Ala Lys Lys Ala Pro
1          5          10          15
Ser Ile Lys Leu Leu Phe Ser Ala Leu Leu Val Met Leu Leu Ser
          20          25          30
Ala Leu Asp Gln Thr Ile Val Ser Thr Ala Leu Pro Thr Ile Val Gly
          35          40          45
Glu Leu Gly Gly Leu Asp Lys Leu Ser Trp Val Val Thr Ala Tyr Ile
          50          55          60
Leu Ser Ser Thr Ile Val Val Pro Leu Tyr Gly Lys Phe Gly Asp Leu
          65          70          75          80
Phe Gly Arg Lys Ile Val Leu Gln Ile Ala Ile Val Leu Phe Leu Val
          85          90          95
Gly Ser Ala Leu Cys Gly Leu Ala Gln Asn Met Thr Gln Leu Val Leu
          100          105          110
Met Arg Ala Leu Gln Gly Leu Gly Gly Gly Leu Met Val Ile Ser
          115          120          125
Met Ala Ala Val Ala Asp Val Ile Pro Pro Ala Asp Arg Gly Arg Tyr
          130          135          140
Gln Gly Leu Phe Gly Gly Val Phe Gly Leu Ala Thr Val Ile Gly Pro
          145          150          155          160
Leu Ile Gly Gly Phe Ile Val Gln His Ala Ser Trp Arg Trp Ile Phe
          165          170          175
Tyr Ile Asn Leu Pro Leu Gly Leu Phe Ala Leu Leu Val Ile Gly Ala
          180          185          190
Val Phe His Gly Ser Ala Arg Arg Ser Lys His Glu Ile Asp Tyr Leu
          195          200          205
Gly Ala Ile Tyr Leu Ser Met Ala Leu Leu Cys Ile Ile Leu Phe Thr
          210          215          220
Thr Glu Gly Gly Thr Ile Arg Gln Trp Ser Asp Pro Gln Leu Trp Cys
          225          230          235          240
Ile Leu Ala Phe Gly Leu Thr Gly Ile Ala Gly Phe Ile Tyr Glu Glu
          245          250          255
Arg Leu Ala Trp Glu Pro Ile Ile Pro Leu Ser Leu Phe Arg Asp Arg
          260          265          270          275
Ser Phe Leu Leu Cys Ser Leu Ile Gly Phe Ile Ile Gly Met Ser Leu
          275          280          285
Phe Gly Ser Val Thr Phe Leu Pro Leu Tyr Leu Gln Val Val Lys Asp
          290          295          300

```

Ala Thr Pro Thr Gln Ala Gly Leu Gln Leu Ile Pro Leu Met Gly Gly
 305 310 315 320
 Leu Leu Leu Thr Ser Ile Ile Ser Gly Arg Ile Ile Ser Arg Thr Gly
 325 330 335
 Lys Tyr Arg Leu Phe Pro Ile Leu Gly Thr Leu Leu Gly Val Val Gly
 340 345 350
 Met Met Leu Leu Thr Arg Ile Ser Ile Thr Ser Pro Thr Trp Gln Leu
 355 360 365
 Tyr Leu Phe Thr Gly Val Leu Gly Met Gly Leu Gly Leu Val Met Gln
 370 375 380
 Val Leu Val Leu Ala Val Gln Asn Ser Val Ser Ala Asp Gln Tyr Gly
 385 390 395 400
 Val Ala Thr Ser Gly Val Thr Leu Phe Arg Ser Ile Gly Gly Ala Ile
 405 410 415
 Gly Val Ala Leu Phe Gly Ala Val Phe Thr His Ile Leu Gln Ser Gly
 420 425 430
 Leu Ile Asp Arg Leu Pro Glu Gly Ala Glu Leu Pro Arg Glu Leu Asn
 435 440 445
 Pro Val Ala Ile His His Leu Pro Asp Ala Leu Arg Leu Asp Tyr Leu
 450 455 460
 Asp Ala Phe Gly Ser Ala Ile His Ala Val Phe Met Leu Ala Ala Glu
 465 470 475 480
 Ile Met Val Leu Ala Phe Val Leu Ser Trp Phe Leu Arg Glu Ala Pro
 485 490 495
 Leu Arg Arg Gln Ala
 500

<210> 7256

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 7256

Ala Val Arg Tyr Ser Asp Cys Ala Glu Asn Lys Glu Arg Phe Met His
 1 5 10 15
 Leu Ser Ile Thr Asp Lys Val Thr Ala Glu Lys Glu Glu Leu Leu
 20 25 30
 Thr Gly Leu Arg Ala Tyr Asn Ala Gln Tyr Leu Asp Leu Ala Thr Phe
 35 40 45
 Ser Gly Asp Ile Gly Val Tyr Met Arg Asp Asp Asn Gly Val Met Leu
 50 55 60
 Gly Gly Leu Ile Gly Val Arg Lys Gly Asp Trp Leu Asn Ile Asp Tyr
 65 70 75 80
 Leu Trp Val Ser Asp Ser Val Arg Gly Thr Gly Val Gly Ser Gln Leu
 85 90 95
 Ile Lys Thr Ala Glu Glu Glu Ala Arg Arg Lys Gly Cys Arg His Ala
 100 105 110
 Leu Val Asp Thr Val Ser Phe Gln Ala Arg Pro Phe Tyr Glu Lys Gln
 115 120 125
 Gly Tyr Gln Val Gln Met Ser Leu Gln Asp Tyr Pro Tyr Gln Gly Met
 130 135 140
 Gln Arg His Tyr Leu Ser Lys Asn Leu
 145 150

<210> 7257

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 7257

Gln Gly Arg Glu Met Ser Thr Ile Asn Asp Val Ser Arg Leu Ala Gly

```

1           5           10           15
Val Ser Lys Ala Thr Val Ser Arg Val Leu Ser Gly Ser Arg Gly Val
20           25           30
Lys Glu Ala Ser Arg Gln Ala Val Leu Lys Ala Val Asp Glu Leu Asn
35           40           45
Tyr Arg Pro Asn Val Ile Ala Gln Ser Leu Leu Ser Gln Ser Thr Gly
50           55           60
Cys Ile Gly Val Ile Cys Ala Gln Glu Asn Ile Asn Gln Thr Thr Gly
65           70           75           80
Tyr Leu Tyr Ala Leu Glu Lys His Leu Ser Gln His Gln Lys His Leu
85           90           95
Leu Leu Arg Phe Ala His Thr Lys Thr Glu Val Met Asn Ala Leu Glu
100          105          110
Glu Leu Ser Cys Gly Leu Cys Asp Asp Ile Leu Val Ile Gly Ala Arg
115          120          125
Phe Pro Leu Asp Val Asp Met Asp Asn Val Ile Leu Val Asp Cys Met
130          135          140
Glu Ala Asp Asn Ala Asn Ser Ile Gln Phe Asp His Ala Phe Ala Ala
145          150          155          160
Glu Thr Ala Cys Asn Tyr Leu Thr Ser Gln Gly Arg Arg Gln Ile Ala
163          170          175
Leu Ile His Pro His Gly Ser Gly Phe Ala Asp Gln Val Leu Leu Gly
180          185          190
Tyr Lys His Ala Leu Glu Lys Asn Phe Leu Pro Phe Asn Arg Asn Leu
195          200          205
Val Phe Met Asp Ala Thr Ser Ser Val Ala Leu Gln Glu Leu Leu
210          215          220
Asn Asn Ala Ser Thr Leu Asn Phe Asn Ala Leu Leu Val Ala Asp Glu
225          230          235          240
Gln Glu Ala Gln Arg Val Ile Pro Gln Leu Gln Ala Phe Asn Lys Ser
245          250          255
Val Pro Glu Asp Ile Met Val Phe Ser Leu Gly Gly Ser Leu His Leu
260          265          270
Pro Gly Ile Pro Val Ile Pro Ala Ile Glu Tyr Ser Met Asp Ala Met
275          280          285
Ala Ala Arg Ile Val Ser Trp Leu Thr Glu Lys Thr Gln Met Leu Gly
290          295          300
Ser Tyr Val Leu Arg Gly Asp Leu Ile Ile Pro Asp Val Arg Lys Arg
305          310          315          320

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<210> 7258

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 7258

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Ile Arg Ser Arg Asp Thr Val Thr Met Pro Ala Gln Lys Asp Asn Ser
1           5           10           15
Glu Pro Arg Arg Pro Gly Arg Pro Arg Gly Gly Lys Arg Val Thr Ala
20           25           30
Ser Arg Glu Gln Leu Leu Asp Ile Ala Leu Asn Leu Phe Ser Arg Gln
35           40           45
Gly Ile Ala Asn Thr Ser Leu Asn Ala Ile Ala Arg Glu Ala Gly Val
50           55           60
Thr Pro Ala Met Leu His Tyr Tyr Phe Asn Ser Arg Glu Gln Leu Leu
65           70           75           80
Asp Ala Met Ile Glu Glu Arg Phe Leu Pro Leu Arg Glu Arg Ile Gly
85           90           95
Ala Ile Phe Ala Asp Asn Arg Asp Ser Pro Val Asp Ala Leu Thr Glu

```

1	Arg	Glu	Asn	5	Gln	Arg	Arg	Lys	Arg	Leu	Met	Phe	Ser	Arg	Phe	Phe
1	Val	Arg	Arg	Pro	20	Val	Phe	Ala	Trp	Val	Ile	Ala	Ile	Leu	Ile	Met
	Ala	Gly	Ile	Leu	Ala	Ile	Arg	Thr	Leu	Pro	Val	Ala	Gln	Thr	Pro	Asp
	Val	Ala	Pro	Pro	Ser	Ile	Lys	Ile	Ser	Ala	Thr	Tyr	Thr	Gly	Ala	Ser
	Ala	Gln	Thr	Leu	Glu	Asn	Ser	Val	Thr	Gln	Val	Ile	Glu	Gln	Gln	Leu
	65	Thr	Gly	Leu	Asp	85	Leu	Leu	Tyr	Phe	Thr	Ser	Thr	Ser	Ser	Asp
	Gly	Ser	Val	Ser	Ile	Asn	Val	Thr	Phe	Glu	Gln	Gly	Thr	Asp	Pro	Asp
	Thr	Ala	Gln	Val	Gln	Val	Gln	Asn	Lys	Val	Gln	Gln	Ala	Gly	Ser	Arg
	Leu	Pro	Thr	Glu	Val	Gln	Gln	Ser	Gly	Ile	Thr	Val	Glu	Lys	Ser	Gln
	Ser	Asn	Phe	Leu	Leu	Ile	Met	Gly	Val	Tyr	Asp	Lys	Thr	Asp	Thr	Ala
	Ser	Ser	Ser	Asp	Ile	Ala	Asp	Trp	Leu	Val	Ser	Asn	Met	Gln	Asp	Pro
	Leu	Ala	Arg	Val	Asp	Gly	Val	Gly	Ser	Leu	Gln	Val	Phe	Gly	Ala	Glu
	Tyr	Ala	Met	Arg	Ile	Trp	Leu	Asp	Pro	Ala	Lys	Leu	Ala	Ser	Tyr	Ser
	Leu	Met	Pro	Ser	Asp	Val	Gln	Ser	Ala	Ile	Glu	Ala	Gln	Asn	Val	Gln
	Val	Ser	Ala	Gly	Lys	Ile	Gly	Ala	Leu	Pro	Ser	Ser	Asn	Ala	Gln	Gln
	225	Leu	Thr	Ala	Thr	Val	Arg	Ala	Gln	Ser	Arg	Leu	Gln	Thr	Val	Asp
		Phe	Lys	Lys	Ile	Ile	Val	Lys	Ser	Gln	Ser	Asn	Gly	Ala	Val	Arg
	Ile	Ser	Asp	Val	Ala	Arg	Val	Glu	Met	Gly	Ser	Glu	Asp	Tyr	Thr	Ala
	Thr	Ala	Lys	Leu	Asn	Gly	His	Pro	Ala	Ala	Gly	Met	Ala	Val	Met	Leu
	Ser	Pro	Gly	Ala	Asn	Ala	Leu	Asn	Thr	Ala	Thr	Ala	Val	Lys	Asp	Lys

305	Ile	Ala	Glu	Phe	Lys	310	Lys	Ser	Met	Pro	Glu	315	Gly	Tyr	Asp	Val	Ala	320	Tyr
					325						330						335		
Pro	Lys	Asp	Ser	Thr	Glu	Phe	Ile	Lys	Ile	Ser	Val	Glu	Asp	Val	Ile				
			340						345						350				
Gln	Thr	Leu	Phe	Glu	Ala	Ile	Ile	Leu	Val	Val	Val	Val	Val	Met	Tyr	Leu			
		355						360					365						
Phe	Leu	Gln	Asn	Ile	Arg	Ala	Thr	Leu	Ile	Pro	Ala	Ala	Leu	Ala	Val	Pro			
	370					375					380								
Val	Val	Leu	Leu	Gly	Thr	Phe	Gly	Val	Leu	Ala	Leu	Phe	Gly	Tyr	Ser				
385					390					395					400				
Ile	Asn	Thr	Leu	Thr	Leu	Phe	Ala	Met	Val	Leu	Ala	Ile	Gly	Leu	Leu				
			405						410						415				
Val	Asp	Asp	Ala	Ile	Val	Val	Val	Glu	Asn	Val	Glu	Arg	Ile	Met	Arg				
			420					425						430					
Asp	Glu	Gly	Leu	Pro	Ala	Arg	Glu	Ala	Thr	Glu	Lys	Ser	Met	Gly	Glu				
		435					440					445							
Ile	Ser	Gly	Ala	Leu	Ile	Ala	Ile	Ala	Leu	Val	Leu	Ser	Ala	Val	Phe				
	450					455					460								
Leu	Pro	Met	Ala	Phe	Phe	Gly	Gly	Ser	Thr	Gly	Val	Ile	Tyr	Arg	Gln				
465					470					475					480				
Phe	Ser	Val	Thr	Ile	Ile	Ser	Ala	Met	Phe	Leu	Ser	Val	Val	Val	Ala				
				485					490						495				
Leu	Thr	Leu	Thr	Pro	Ala	Leu	Cys	Gly	Ser	Ile	Leu	Asn	His	Thr	Ala				
			500					505					510						
Pro	His	Lys	Lys	Gly	Phe	Phe	Gly	Ala	Phe	Asn	Arg	Phe	Tyr	Ser	Lys				
		515					520					525							
Thr	Glu	His	Ser	Tyr	Gln	Asn	Lys	Val	Leu	Arg	Ala	Leu	Arg	Arg	Ser				
	530					535					540								
Gly	Gly	Met	Leu	Val	Ile	Tyr	Ala	Leu	Leu	Cys	Gly	Ala	Met	Gly	Phe				
545					550					555					560				
Ala	Met	Leu	Lys	Leu	Pro	Gly	Ser	Phe	Leu	Pro	Thr	Glu	Asp	Gln	Gly				
			565						570						575				
Glu	Ile	Met	Val	Gln	Tyr	Thr	Leu	Pro	Ala	Gly	Ala	Thr	Ala	Val	Arg				
			580					585						590					
Thr	Ala	Glu	Val	Ser	Arg	Gln	Val	Arg	Glu	Trp	Phe	Leu	Thr	Lys	Glu				
		595					600					605							
Lys	Ala	Asn	Thr	Asn	Val	Ile	Phe	Thr	Ile	Glu	Gly	Phe	Ser	Phe	Ser				
	610					615					620								
Gly	Ser	Gly	Gln	Asn	Ala	Gly	Met	Ala	Phe	Val	Ser	Leu	Lys	Asn	Trp				
625					630					635					640				
Ser	Glu	Arg	Lys	Gly	Asp	Glu	Asn	Thr	Ala	Gln	Ala	Ile	Ala	Leu	Arg				
			645						650					655					
Ala	Thr	Gln	Glu	Leu	Ser	Thr	Ile	Arg	Asp	Ala	Thr	Ile	Phe	Ala	Met				
			660					665					670						
Thr	Pro	Pro	Ala	Val	Asp	Gly	Leu	Gly	Gln	Ser	Asn	Gly	Phe	Thr	Phe				
		675					680					685							
Glu	Leu	Met	Ala	Ser	Gly	Gly	Thr	Asp	Arg	Asp	Ala	Leu	Leu	Lys	Leu				
	690					695					700								
Arg	Asn	Gln	Leu	Ile	Gly	Glu	Ala	Asn	Gln	Asp	Asn	Ser	Leu	His	Ala				
705					710					715					720				
Val	Arg	Ala	Asn	Asp	Leu	Pro	Gln	Met	Pro	Gln	Leu	Gln	Val	Asp	Ile				
			725						730						735				
Asp	Asn	Asn	Lys	Ala	Val	Ser	Leu	Gly	Leu	Ser	Leu	Ser	Asp	Val	Thr				
			740					745					750						
Asp	Thr	Leu	Ser	Ser	Ala	Trp	Gly	Gly	Thr	Tyr	Val	Asn	Asp	Phe	Ile				
		755					760					765							
Asp	Arg	Gly	Arg	Val	Lys	Lys	Val	Tyr	Ile	Gln	Gly	Asp	Ser	Asp	Tyr				
	770					775					780								
Arg	Ala	Val	Pro	Ser	Asp	Leu	Asn	Lys	Trp	Tyr	Val	Arg	Gly	Ser	Asp				
785					790					795					800				

Ser Thr Met Thr Pro Phe Ser Ala Phe Ala Thr Thr Arg Trp Glu Tyr
 805 810 815
 Gly Pro Glu Ser Leu Val Arg Tyr Asn Gly Ser Ala Ala Tyr Glu Ile
 820 825 830
 Gln Gly Glu Asn Ala Ser Gly Ala Ser Ser Gly Thr Ala Met Ser Lys
 835 840 845
 Met Glu Gln Leu Ala Asn Ser Leu Pro Ser Gly Ser Thr Trp Ala Trp
 850 855 860
 Ser Gly Leu Ser Leu Gln Glu Lys Leu Ala Ser Gly Gln Ala Met Ser
 865 870 875 880
 Leu Tyr Ala Leu Ser Ile Leu Val Val Phe Leu Cys Leu Ala Ala Leu
 885 890 895
 Tyr Glu Ser Trp Ser Val Pro Ile Ser Val Ile Met Val Ile Pro Leu
 900 905 910
 Gly Val Leu Gly Ala Ala Val Ala Ala Ser Leu Arg Gly Leu Asn Asn
 915 920 925
 Asp Val Tyr Phe Gln Val Ala Leu Leu Thr Thr Ile Gly Leu Ser Ser
 930 935 940
 Lys Asn Ala Ile Leu Ile Val Glu Phe Ala Glu Ala Lys Val Ala Glu
 945 950 955 960
 Gly Tyr Ser Leu Thr Arg Ala Ala Leu Arg Ala Ala Gln Thr Arg Leu
 965 970 975
 Arg Pro Ile Ile Met Thr Ser Leu Ala Phe Ile Ala Gly Val Thr Pro
 980 985 990
 Leu Ala Ile Ala Thr Gly Ala Gly Ala Asn Ser Arg Val Ala Ile Gly
 995 1000 1005
 Thr Gly Ile Ile Gly Gly Thr Leu Ala Ala Thr Leu Leu Ala Ile Phe
 1010 1015 1020
 Phe Val Pro Leu Phe Phe Val Leu Val Lys Arg Leu Phe Ser Gly Lys
 1025 1030 1035 1040
 His Ala Asn Arg Arg Ser
 1045

<210> 7260

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 7260

Ile Pro Met Ala Lys Val Ser Phe Ser Phe Ala Ala Ile Leu Gly Leu
 1 5 10 15
 Leu Thr Ala Ile Gly Pro Leu Cys Ser Asp Phe Tyr Leu Pro Ala Leu
 20 25 30
 Pro Glu Ile Ala Thr Gln Leu Asn Thr Ser Thr Thr Leu Thr Gln Leu
 35 40 45
 Ser Leu Thr Ser Ala Leu Ile Gly Leu Gly Leu Gly Gln Leu Phe Phe
 50 55 60
 Gly Pro Leu Ser Asp Arg Ile Gly Arg Lys Thr Pro Leu Leu Phe Ser
 65 70 75 80
 Leu Leu Leu Phe Val Leu Ala Ser Val Leu Cys Ala Ser Thr Gln Asn
 85 90 95
 Ile Tyr Ala Leu Ile Gly Trp Arg Phe Val Gln Gly Val Ala Gly Ala
 100 105 110
 Gly Gly Ser Val Leu Ala Arg Ser Ile Ala Arg Asp Asn Tyr His Gly
 115 120 125
 Thr Met Leu Thr Gln Phe Phe Ala Leu Leu Met Thr Val Asn Gly Ile
 130 135 140
 Ala Pro Val Val Ser Pro Val Leu Gly Gly Tyr Ile Ala Ser His Phe
 145 150 155 160
 Asp Trp Arg Met Leu Phe Trp Val Met Ala Gly Ala Gly Leu Ala Leu
 165 170 175

Leu Ile Ala Ser Gln Leu Phe Ile Arg Glu Ser Leu Thr Glu Lys Gln
 180 185 190
 Gly Arg Gly Ser Leu Thr Gln Thr Ala Arg Thr Val Leu Lys Asn Arg
 195 200 205
 Arg Phe Met Arg Tyr Cys Leu Ile Gln Ala Phe Met Leu Ala Gly Leu
 210 215 220
 Phe Ala Tyr Ile Gly Ala Ser Ser Phe Val Met Gln Asn Glu Tyr Gly
 225 230 235 240
 Leu Ser Ala Met Gln Phe Ser Leu Leu Phe Gly Val Asn Gly Ile Gly
 245 250 255
 Leu Ile Val Ser Ala Leu Ile Phe Ser Arg Leu Ala Arg Arg His Leu
 260 265 270
 Ala Glu Arg Leu Met Arg Thr Gly Leu Val Leu Ala Leu Ser Cys Ala
 275 280 285
 Gly Leu Thr Leu Leu Phe Ala Trp Met Gln Leu Ser Val Pro Ala Leu
 290 295 300
 Val Ala Leu Phe Phe Thr Val Ala Phe Asn Ser Gly Ile Ser Thr Ile
 305 310 315 320
 Ala Gly Ser Glu Ala Met Ser Ala Val Asp Thr Lys Glu Ser Gly Thr
 325 330 335
 Ala Ser Ala Ile Leu Gly Met Leu Met Phe Leu Phe Gly Gly Ile Ala
 340 345 350
 Ala Pro Leu Ala Gly Ile Gly Gly Glu Thr Met Leu Lys Met Ser Leu
 355 360 365
 Ala Val Leu Val Ser Tyr Gly Ile Ala Leu Ala Ile Gly Tyr Arg Thr
 370 375 380
 Gln Asn Ala
 385

<210> 7261

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 7261

Gly Trp Leu Ser Met Phe Lys Ile Met Leu Cys Cys Ser Ala Gly Met
 1 5 10 15
 Ser Thr Ser Leu Leu Val Ser Lys Met Ile Asp Val Ala Lys Glu Arg
 20 25 30
 Gly Leu Pro Val Lys Ile Asp Ala Tyr Gly Val Ser Glu Phe Asp Thr
 35 40 45
 Gln Phe Pro His Tyr Gln Val Val Leu Leu Gly Pro Gln Val Lys Tyr
 50 55 60
 Met Leu Lys Thr Leu Ser Asp Lys Ala Ala Thr Gln Gly Ile Pro Val
 65 70 75 80
 Gln Pro Ile Asp Met Met Asp Tyr Gly Met Gln Arg Gly Asp Lys Val
 85 90 95
 Leu Asp Tyr Ala Leu Ser Leu Ile Glu Ala Ala His
 100 105

<210> 7262

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 7262

Pro Thr Met Ser Thr Lys Leu Glu Glu Arg Gln Lys Leu Arg Gln Asp
 1 5 10 15
 Glu Ile Ile Thr Ala Ala Arg Arg Cys Phe Arg Ala Ser Gly Phe His
 20 25 30
 Ala Ala Ser Met Ser Gln Ile Ala Ser Glu Ala Arg Leu Ser Val Gly

```
<210> 7263
<211> 385
<212> PRT
<213> Enterobacter cloacae
```

400> 7263																	
Gln	Gly	Arg	Leu	Arg	Ser	Pro	Trp	Lys	Lys	Ile	Met	Lys	Thr	Ile	Thr		
1				5				10						15			
Thr	Ser	Ile	Ala	Ala	Leu	Leu	Leu	Thr	Gly	Cys	Asp	Asn	Ala	Gln			
			20				25					30					
Thr	Ser	Ala	Pro	Gln	Arg	Pro	Leu	Pro	Glu	Val	Gly	Ile	Val	Thr	Leu		
		35					40					45					
Met	Ser	Gln	Pro	Val	Ser	Val	Val	Ser	Glu	Leu	Thr	Gly	Arg	Thr	Ala		
	50					55					60						
Ala	Ala	Met	Ser	Ala	Glu	Val	Arg	Pro	Gln	Val	Gly	Gly	Ile	Ile	Gln		
					70					75				80			
Lys	Arg	Leu	Phe	Thr	Glu	Gly	Asp	Thr	Val	Lys	Ala	Gly	Gln	Ala	Leu		
				85					90					95			
Tyr	Gln	Ile	Asp	Pro	Ser	Ser	Tyr	Arg	Ala	Ala	Tyr	Asn	Glu	Ala	Ala		
			100					105					110				
Ala	Ala	Leu	Lys	Gln	Ala	Gln	Ala	Leu	Val	Gln	Ala	Asp	Cys	Gln	Lys		
		115					120					125					
Ala	Arg	Arg	Tyr	Ala	Gln	Leu	Val	Lys	Asp	Asp	Gly	Val	Ser	Arg	Gln		
		130				135					140						
Asp	Ala	Glu	Asp	Ala	Lys	Ser	Thr	Cys	Ala	Gln	Asp	Lys	Ala	Ser	Val		
				150					155					160			
Glu	Ser	Lys	Lys	Ala	Ala	Leu	Glu	Ser	Ala	Arg	Ile	Asn	Leu	Asn	Trp		
				165					170					175			
Thr	Thr	Val	Thr	Ala	Pro	Ile	Ala	Gly	Arg	Ile	Gly	Ile	Ser	Ser	Val		
			180					185					190				
Thr	Pro	Gly	Ala	Leu	Val	Thr	Thr	Gln	Gln	Asp	Thr	Ala	Leu	Ala	Thr		
		195					200					205					
Ile	Arg	Gly	Leu	Asp	Ser	Met	Tyr	Val	Asp	Leu	Thr	Arg	Ser	Ser	Ala		
	210					215					220						
Asp	Leu	Leu	Arg	Leu	Arg	Lys	Gln	Trp	Leu	Ala	Ser	Asn	Ser	Asp	Thr		
				230						235				240			
Thr	Asn	Val	Ser	Leu	Ile	Leu	Glu	Asp	Gly	Ser	Ser	Tyr	Ser	Glu	Lys		
				245					250					255			
Gly	His	Leu	Ala	Leu	Thr	Glu	Val	Ala	Val	Asp	Glu	Ser	Thr	Gly	Ser		
		260						265					270				
Val	Thr	Leu	Arg	Ala	Val	Phe	Pro	Asn	Pro	Gln	His	Gln	Leu	Leu	Pro		

	275		280		285
Gly Met Phe Val Arg Ala Arg Val Asp Glu Gly Ile Met Asn Asp Ala					
290		295		300	
Ile Leu Ala Pro Gln Gln Gly Ile Thr Arg Asp Ala Lys Gly Thr Ala					
305		310		315	320
Thr Ala Leu Val Val Asn Ala Ser Asn Lys Val Glu Gln Arg Gln Leu					
	325		330		335
Glu Thr Gly Asp Thr Tyr Gly Asp Lys Trp Leu Val Leu Ser Gly Leu					
	340		345		350
Lys Ala Gly Asp Lys Leu Ile Val Glu Gly Thr Asp Lys Val Thr Ala					
	355		360		365
Gly Gln Glu Val Lys Ala Glu Glu Met Lys Thr Asn Gly Gly Asn Ala					
	370		375		380

385

<210> 7264

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 7264

Ala Arg Lys Pro Glu Val Ile Met Phe Arg Val Thr Val Leu Thr Leu					
1	5		10		15
Ala Leu Leu Ser Ala Gly Cys Val Ser Leu Asp Pro Thr Tyr Gln Arg					
	20		25		30
Pro Asp Ala Pro Val Pro Thr Thr Leu Pro Gly Ala His Gly Glu Ala					
	35		40		45
Asn Ala Val Val Ser Gln Trp Gln Gln Val Met Asn Asp Ala Arg Leu					
	50		55		60
Lys Ser Val Val Thr Met Ala Leu Asn Ser Asn Arg Asp Val Gln Lys					
	65		70		75
Ala Ile Ala Asp Ile Asp Ala Ala Arg Ala Gln Tyr Gly Glu Thr Arg					
	85		90		95
Ser Ser Leu Phe Pro Thr Val Asp Ala Glu Leu Ser His Thr Arg Ser					
	100		105		110
Arg Thr Leu Ala Ser Gly Val Ala Thr Ser Asp Glu Ala Asn Gly Ala					
	115		120		125
Val Ser Ser Phe Glu Leu Asp Leu Phe Gly Arg Asn Gln Ser Leu Ser					
	130		135		140
Arg Ala Ala Arg Glu Thr Trp Leu Ala Ser Glu Phe Thr Ala Gln Asn					
	145		150		155
Thr Arg Leu Thr Met Val Ser Glu Leu Thr Thr Ala Trp Val Thr Leu					
	165		170		175
Ala Ala Asp Asn Ser Asn Leu Ala Leu Ala Lys Ser Thr Leu Glu Ser					
	180		185		190
Ala Ala Asn Ser Leu Lys Ile Val Lys Arg Gln Gln Glu Val Gly Val					
	195		200		205
Ala Ala Ala Thr Asp Val Ser Glu Ala Met Ala Val Tyr Gln Gln Ala					
	210		215		220
Arg Ala Ser Val Ala Ser Tyr Gln Thr Leu Val Met Gln Asp Lys Asn					
	225		230		235
Ala Leu Asn Leu Leu Ala Gly Asp Thr Val Pro Glu Asn Leu Leu Pro					
	245		250		255
Gly Thr Leu Glu Ser Leu Ser Asp Asn Ala Ile Thr Leu Ile Pro Ala					
	260		265		270
Gly Val Ser Ser Ser Ala Leu Leu Arg Arg Pro Asp Ile Gln Glu Ala					
	275		280		285
Glu His Asn Leu Leu Ser Ala Asn Ala Asn Ile Gly Ala Ala Arg Ala					
	290		295		300
Asn Phe Phe Pro Thr Ile Ser Leu Thr Ala Ser Ala Gly Val Gly Ser					

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305          310          315          320
Asp Ser Leu Ser Ser Leu Phe Ser His Gly Met Lys Val Trp Ser Phe
325      330      335
Ala Pro Ser Ile Thr Leu Pro Leu Phe Ser Gly Gly Asn Asn Met Ala
340      345      350
Gln Leu Arg Tyr Ala Glu Ala Glu Lys Lys Gly Leu Ile Ala Thr Tyr
355      360      365
Glu Lys Thr Ile Gln Ser Ala Phe Lys Asp Val Ala Asp Ala Leu Ala
370      375      380
Arg Arg Glu Thr Leu Ser Glu Gln Leu Asp Ala Gln Arg Glu Tyr Val
385      390      395      400
Ala Ala Glu Gln Lys Thr Leu Asp Val Ala Thr Arg Ser Tyr Lys Ala
405      410      415
Gly Ala Gly Asp Tyr Leu Thr Val Leu Thr Ala Gln Arg Ser Leu Trp
420      425      430
Ser Ala Gln Glu Ser Leu Ile Ala Leu Gln Gln Thr Asp Leu Glu Asn
435      440      445
Arg Ile Thr Leu Trp Gln Ser Leu Gly Gly Gly Ile Gln
450      455      460

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<210> 7265

<211> 428

<212> PRT

<213> Enterobacter cloacae

<400> 7265

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Ser Thr Gly Leu Cys Ser Val Ala Tyr Arg Ser Gly Thr Leu Lys Gly
1      5      10      15
Val His Met Ser Ser Leu Tyr Gln Ser Met Val Ala Val Ile Glu Gln
20      25      30
Ser Ile Thr Pro Leu Ala Ala Lys Leu Gly Gln Gln Lys Tyr Val Ile
35      40      45
Ala Ile Arg Asp Gly Phe Thr Ala Ala Leu Pro Phe Met Ile Ile Gly
50      55      60
Ser Phe Met Leu Val Phe Ile Phe Pro Pro Phe Ser Ala Asp Thr Thr
65      70      75      80
Asn Ser Phe Ala Arg Gly Trp Leu Asp Phe Ser Glu Thr Tyr Arg Glu
85      90      95
Gln Leu Met Leu Pro Phe Asn Leu Ser Met Gly Val Met Thr Phe Phe
100      105      110
Ile Ser Val Gly Ile Gly Ala Ser Leu Gly Arg Gln Phe Asn Leu Asp
115      120      125
Pro Val Met Ser Gly Leu Leu Ala Phe Met Ala Phe Leu Leu Val Ala
130      135      140
Ala Pro Tyr Ala Asp Gly Lys Ile Ser Thr Gln Tyr Leu Ser Gly Gln
145      150      155      160
Gly Ile Phe Thr Ala Leu Ile Thr Ala Ile Tyr Ser Thr Arg Val Tyr
165      170      175
Ala Trp Leu Lys Gln Asn Asn Val Thr Ile Arg Leu Pro Lys Glu Val
180      185      190
Pro Thr Gly Val Ala Arg Ser Phe Glu Ile Leu Ile Pro Val Met Val
195      200      205
Val Ile Gly Thr Leu His Pro Leu Asn Leu Phe Ile Glu Ala Gln Thr
210      215      220
Gly Met Ile Ile Pro Gln Ala Ile Met His Leu Leu Glu Pro Leu Val
225      230      235      240
Ser Ala Ser Asp Ser Leu Pro Ala Ile Leu Leu Ser Val Leu Leu Cys
245      250      255
Gln Ile Phe Trp Phe Ala Gly Ile His Gly Ser Leu Ile Val Thr Gly
260      265      270
Ile Met Asn Pro Phe Trp Met Ala Asn Leu Ser Ala Asn Gln Ala Ala

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275	280	285
Leu Ala Ala Gly Ala Ala	Leu Pro His Val Tyr	Leu Gln Gly Phe Trp
290	295	300
Asp His Tyr Leu Leu Ile	Gly Gly Val Gly Ser Thr	Leu Pro Leu Ala
305	310	315
Phe Leu Leu Leu Arg Ser	Arg Val Thr His Leu Arg Thr	Ile Gly Lys
325	330	335
Met Gly Val Val Pro Ser	Phe Phe Asn Ile Asn Glu Pro	Ile Leu Phe
340	345	350
Gly Ala Pro Ile Ile Met	Asn Pro Met Leu Phe Ile Pro	Phe Val Phe
355	360	365
Val Pro Leu Val Asn Ala	Cys Leu Ala Tyr Gly Ala Thr	Lys Leu Gly
370	375	380
Trp Leu Ala Gln Val Val	Ser Leu Thr Pro Trp Thr Thr	Pro Ala Pro
385	390	400
Ile Gly Ala Ser Trp Ala	Ala Asn Trp Ala Leu Ser Pro	Val Val Met
405	410	415
Cys Leu Ile Cys Met Val	Met Ser Ala Leu Met Tyr	
420	425	

<210> 7266

<211> 354

<212> PR1

<213> Enterobacter cloacae

<400> 7266

Ile Met Met Lys Arg Asn Ile	Leu Ala Val Val Val Pro Ala	Leu Leu
1	5	10
Val Ala Gly Ala Ala Asn Ala	Ala Glu Ile Tyr Asn Lys Asp	Gly Asn
20	25	30
Lys Leu Asp Leu Tyr Gly Lys	Ala Val Gly Leu His Tyr Phe	Ser Asp
35	40	45
Asn Asp Ser Asn Asp Gly Asp	Asn Thr Tyr Ala Arg Leu Gly	Phe Lys
50	55	60
Gly Glu Thr Gln Ile Asn Asp	Gln Leu Thr Gly Tyr Gly Gln	Trp Glu
65	70	75
Tyr Asn Phe Gln Gly Asn Asn	Ser Glu Gly Gly Asp Ala Gln	Asn Gly
85	90	95
Asn Lys Thr Arg Leu Ala Phe	Ala Gly Leu Lys Phe Gly Asp	Ala Gly
100	105	110
Ser Phe Asp Tyr Gly Arg Asn	Tyr Gly Leu Val Tyr Asp Ala	Ile Gly
115	120	125
Ile Thr Asp Met Leu Pro Glu	Phe Gly Gly Asp Thr Gly Ala	Ser Asp
130	135	140
Asn Phe Phe Ala Gly Arg Thr	Gly Gly Leu Ala Thr Tyr Arg	Asn Ser
145	150	155
Asn Phe Phe Gly Leu Val Asp	Gly Leu Asn Phe Gly Val Gln	Tyr Leu
165	170	175
Gly Lys Asn Glu Arg Thr Asp	Ala Val Arg Ser Asn Gly Asp	Gly Trp
180	185	190
Ala Thr Ser Leu Ser Tyr Asp	Phe Glu Gly Phe Gly Ile Val	Gly Ala
195	200	205
Tyr Gly Ala Ala Asp Arg Thr	Asn Asn Gln Gln Thr Leu Glu	Trp Gly
210	215	220
Lys Gly Asp Lys Ala Glu Gln	Trp Ala Thr Gly Leu Lys Tyr	Asp Ala
225	230	235
Asn Asn Ile Tyr Leu Ala Ala	Ile Tyr Gly Glu Met Arg Asn	Ala Ala
245	250	255
Arg Leu Gly Ser Arg Gly Phe	Ala Asn Lys Ser Gln Asp	Ser Val
260	265	270
Val Ala Gln Tyr Gln Phe Asp	Phe Gly Leu Arg Pro Ser Ile	Ala Tyr

275 280 285
 Tyr Lys Ser Lys Ala Lys Asp Val Glu Gly Ile Gly Asp Glu Asp Tyr
 290 295 300
 Ile Asn Tyr Ile Asp Val Gly Ala Thr Tyr Tyr Phe Asn Lys Asn Met
 305 310 315 320
 Ser Thr Tyr Val Asp Tyr Gln Ile Asn Gln Leu Lys Asp Asp Asn Lys
 325 330 335
 Leu Gly Ile Asn Asn Asp Tyr Ile Val Ala Leu Gly Leu Val Tyr Gln
 340 345 350
 Phe

<210> 7267

<211> 222

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (199)

<400> 7267

Tyr His Arg Gln Ser Pro Ala Val Trp Leu Lys Lys Glu Pro Lys Arg
 1 5 10 15
 Met Leu Phe Thr Leu Lys Lys Tyr Ile Gly Gly Met Met Leu Pro Leu
 20 25 30
 Pro Leu Leu Leu Leu Ile Ala Leu Gly Leu Ala Met Ile Trp Phe
 35 40 45
 Ser Arg Phe Gln Lys Ser Gly Lys Ser Leu Val Thr Val Gly Trp Leu
 50 55 60
 Ala Leu Leu Leu Leu Ser Leu Gln Pro Val Ala Asp Gly Leu Leu Arg
 65 70 75 80
 Pro Ile Glu Asn Thr Tyr Pro Thr Trp Gln Gly Asn Gln Lys Val Gly
 85 90 95
 Tyr Ile Val Val Leu Gly Gly Gly Tyr Thr Trp Asp Pro Asn Trp Ala
 100 105 110
 Pro Ser Ser Asn Leu Ile Asn Asn Ser Leu Pro Arg Leu Asn Glu Gly
 115 120 125
 Ile Arg Leu Trp Leu Ala Asn Pro Gly Ser Lys Met Ile Phe Thr Gly
 130 135 140
 Ala Ala Ala Lys Thr Asn Pro Val Ser Thr Ala Glu Ala Gly Ala Arg
 145 150 155 160
 Val Ala Glu Ser Leu Gly Val Pro Arg Ser Ala Ile Ile Thr Leu Asp
 165 170 175
 Ser Pro Lys Asp Thr Glu Glu Glu Ala Ala Val Lys Gln Ala Ile
 180 185 190
 Gly Asp Val Pro Phe Ala Xaa Gly Asp Ile Tyr Phe His Thr Cys Arg
 195 200 205
 Ala Gln Leu Phe Glu Asn Glu Leu Glu Ile Pro Pro Lys Glu
 210 215 220

<210> 7268

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7268

Ser Gln Trp Asn Phe Val Met Phe Glu Asn Ile Thr Ala Ala Pro Ala
 1 5 10 15
 Asp Pro Ile Leu Gly Leu Ala Asp Leu Phe Arg Ala Asp Asp Arg Pro
 20 25 30

Gly Lys Ile Asn Leu Gly Ile Gly Val Tyr Lys Asp Glu Thr Gly Lys
 35 40 45
 Thr Pro Val Leu Thr Ser Val Lys Lys Ala Glu Gln Tyr Leu Leu Glu
 50 55 60
 Asn Glu Thr Thr Lys Asn Tyr Leu Gly Ile Asp Gly Ile Pro Glu Phe
 65 70 75 80
 Gly Arg Cys Thr Gln Glu Leu Leu Phe Gly Lys Gly Ser Thr Ile Val
 85 90 95
 Ser Glu Lys Arg Ala Arg Thr Ala Gln Thr Pro Gly Gly Thr Gly Ala
 100 105 110
 Leu Arg Val Ala Ala Asp Phe Leu Ala Lys Asn Thr Ser Val Lys Arg
 115 120 125
 Val Trp Val Ser Asn Pro Ser Trp Pro Asn His Lys Ser Val Phe Asn
 130 135 140
 Ser Ala Gly Leu Glu Val Arg Glu Tyr Ala Tyr Asp Ala Ala Ser
 145 150 155 160
 His Ala Leu Asp Phe Asp Gly Leu Leu Ala Ser Leu Ser Glu Ala Gln
 165 170 175
 Ala Gly Asp Val Val Leu Phe His Gly Cys Cys His Asn Pro Thr Gly
 180 185 190
 Ile Asp Pro Thr Leu Glu Gln Trp Glu Gln Leu Ala Lys Leu Ser Val
 195 200 205
 Glu Lys Gly Trp Leu Pro Leu Phe Asp Phe Ala Tyr Gln Gly Phe Ala
 210 215 220
 Arg Gly Leu Glu Glu Asp Ala Glu Gly Leu Arg Ala Phe Ala Ala Val
 225 230 235 240
 His Gln Glu Leu Ile Val Ala Ser Ser Tyr Ser Lys Asn Phe Gly Leu
 245 250 255
 Tyr Asn Glu Arg Val Gly Ala Cys Thr Leu Val Ala Ala Asp Glu Ala
 260 265 270
 Thr Val Asp Arg Ala Phe Ser Gln Met Lys Ser Val Ile Arg Ala Asn
 275 280 285
 Tyr Ser Asn Pro Pro Ala His Gly Ala Ser Val Val Ala Thr Ile Leu
 290 295 300
 Ser Asn Asp Ala Leu Arg Ala Ile Trp Glu Gln Glu Leu Asn Asp Met
 305 310 315 320
 Arg Gln Arg Ile Gln Arg Met Arg Leu Leu Phe Val Asn Thr Leu Ala
 325 330 335
 Glu Lys Gly Ala Asp Arg Asp Phe Ser Phe Ile Ile Lys Gln Asn Gly
 340 345 350
 Met Phe Ser Phe Ser Gly Leu Thr Lys Glu Gln Val Leu Arg Leu Arg
 355 360 365
 Glu Glu Phe Gly Val Tyr Ala Val Ala Ser Gly Arg Val Asn Val Ala
 370 375 380
 Gly Met Thr Pro Asp Asn Met Ala Pro Leu Cys Glu Ala Ile Val Ala
 385 390 395 400
 Val Leu

<210> 7269

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 7269

Gln Asn Ser Gly Phe Ala Val Ser Gly Thr Leu Pro Met Arg Asp Arg
 1 5 10 15
 Asn Phe Asp Asp Ile Ala Glu Lys Phe Ser Arg Asn Ile Tyr Gly Thr
 20 25 30
 Thr Lys Gly Gln Leu Arg Gln Thr Ile Leu Trp Gln Asp Leu Asp Lys
 35 40 45

Leu Leu Ala Glu Phe Gly Asp Arg Pro Leu Arg Val Leu Asp Ala Gly
 50 55 60
 Gly Gly Glu Gly Gln Thr Ala Ile Leu Met Ala Gln Arg Gly His His
 65 70 75 80
 Val Thr Leu Cys Asp Leu Ser Ala Glu Met Val Ala Arg Ala Gly Arg
 85 90 95
 Ala Ala Glu Glu Lys Gly Val Ser Asp Asn Met His Phe Ile His Cys
 100 105 110
 Ala Ala Gln Asp Ile Pro Gln His Leu Glu Thr Gln Val Asp Leu Ile
 115 120 125
 Leu Phe His Ala Val Leu Glu Trp Ile Ala Glu Pro Gln Ala Met Leu
 130 135 140
 Lys Thr Leu Trp Ser Met Leu Arg Pro Gly Gly Ala Leu Ser Leu Met
 145 150 155 160
 Phe Tyr Asn Ala Asn Gly Leu Leu Met Arg Asn Val Leu Val Gly Asn
 165 170 175
 Phe Gly Tyr Val Gln Gln Gly Met Tyr Lys Lys Lys Arg Arg Thr Leu
 180 185 190
 Ser Pro Asp Phe Pro Arg Glu Pro Gln Gln Val Tyr Gly Trp Leu Glu
 195 200 205
 Glu Ile Gly Trp Glu Ile Thr Gly Lys Thr Gly Val Arg Val Phe His
 210 215 220
 Asp Tyr Leu Arg Asp Lys Gln Lys Asp Asp Cys Leu Asp Ala Leu
 225 230 235 240
 Thr Glu Ile Glu Thr Arg Tyr Cys Arg Gln Glu Pro Tyr Leu Ser Leu
 245 250 255
 Gly Arg Tyr Ile His Val Thr Ala Arg Lys Pro Gln Met Gln Gly
 260 265 270

<210> 7270

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 7270

Ser Met Ser Glu Phe Ser Gln Thr Val Pro Glu Leu Val Ala Trp Ala
 1 5 10 15
 Arg Lys Asn Asp Phe Ser Ile Ser Leu Pro Val Asp Arg Leu Ser Phe
 20 25 30
 Leu Leu Ala Val Ala Thr Leu Asn Gly Glu Arg Leu Asp Gly Glu Met
 35 40 45
 Ser Glu Gly Glu Leu Val Asp Ala Phe Arg His Val Ser Asp Ala Phe
 50 55 60
 Glu Gln Thr Ser Glu Thr Ile Ser Val Arg Ala Asn Asn Ala Ile Asn
 65 70 75 80
 Asp Met Val Arg Gln Arg Leu Leu Asn Arg Phe Thr Ser Glu Gln Ala
 85 90 95
 Glu Gly Asn Ala Ile Tyr Arg Leu Thr Pro Leu Gly Ile Gly Ile Thr
 100 105 110
 Asp Tyr Tyr Ile Arg Gln Arg Glu Phe Ser Thr Leu Arg Leu Ser Met
 115 120 125
 Gln Leu Ser Ile Val Ala Gly Glu Leu Lys Arg Ala Ala Asp Ala Ala
 130 135 140
 Asp Glu Asn Gly Asp Glu Phe His Trp His Arg Asn Val Tyr Ala Pro
 145 150 155 160
 Leu Lys Tyr Ser Val Ala Glu Ile Phe Asp Ser Ile Asp Leu Thr Gln
 165 170 175
 Arg Leu Met Asp Glu Gln Gln Gln Gln Val Lys Asp Asp Ile Ala Gln
 180 185 190
 Leu Leu Asn Lys Asp Trp Arg Ala Ala Ile Ser Ser Cys Glu Leu Leu
 195 200 205

Leu Ser Glu Thr Ser Gly Thr Leu Arg Glu Leu Gln Asp Thr Leu Glu
 210 215 220
 Ala Ala Gly Asp Lys Leu Gln Ala Asn Leu Leu Arg Ile Gln Asp Ala
 225 230 235 240
 Thr Met Ala His Asp Asp Leu His Phe Ile Asp Arg Leu Val Phe Asp
 245 250 255
 Leu Gln Ser Lys Leu Asp Arg Ile Ile Ser Trp Gly Gln Gln Ser Ile
 260 265 270
 Asp Leu Trp Ile Gly Tyr Asp Arg His Val His Lys Phe Ile Arg Thr
 275 280 285
 Ala Ile Asp Met Asp Lys Asn Arg Val Phe Ala Gln Arg Leu Arg Gln
 290 295 300
 Ser Val Gln Thr Tyr Phe Asp Ala Pro Trp Ala Leu Thr His Ala Asn
 305 310 315 320
 Ala Asp Arg Leu Leu Asp Met Arg Asp Glu Glu Met Ala Leu Arg Asp
 325 330 335
 Glu Glu Val Thr Gly Glu Leu Pro Pro Asp Leu Glu Tyr Glu Glu Phe
 340 345 350
 Asn Glu Ile Arg Glu Gln Leu Ala Ala Met Ile Glu Glu Gln Leu Ala
 355 360 365
 Val Tyr Lys Thr Arg Gln Ala Pro Leu Asp Leu Gly Leu Val Val Arg
 370 375 380
 Asp Tyr Leu Ala Gln Tyr Pro Arg Ala Arg His Phe Asp Val Ala Arg
 385 390 395 400
 Ile Val Val Asp Gln Ala Val Arg Leu Gly Ile Ala Gln Ala Asp Phe
 405 410 415
 Thr Gly Leu Pro Pro Lys Trp Gln Pro Ile Asn Asp Tyr Gly Ala Lys
 420 425 430
 Val Gln Ala His Val Ile Asp Lys Tyr
 435 440

<210> 7271

<211> 1488

<212> PRT

<213> Enterobacter cloacae

<400> 7271

Arg Gly Gly Arg Val Met Ile Glu Arg Gly Lys Phe Arg Ser Leu Thr
 1 5 10 15
 Leu Ile Asn Trp Asn Gly Phe Phe Ala Arg Thr Phe Asp Leu Asp Glu
 20 25 30
 Leu Val Thr Thr Leu Ser Gly Gly Asn Gly Ala Gly Lys Ser Thr Thr
 35 40 45
 Met Ala Ala Phe Val Thr Ala Leu Ile Pro Asp Leu Thr Leu Leu His
 50 55 60
 Phe Arg Asn Thr Thr Glu Ala Gly Ala Thr Ser Gly Ser Arg Asp Lys
 65 70 75 80
 Gly Leu His Gly Lys Leu Lys Ala Gly Val Cys Tyr Ser Val Leu Asp
 85 90 95
 Val Ile Asn Ser Arg His Gln Arg Val Val Val Gly Val Arg Leu Gln
 100 105 110
 Gln Val Ala Gly Arg Asp Arg Lys Val Asp Ile Lys Pro Phe Ala Ile
 115 120 125
 Gln Gly Leu Pro Thr Ser Val Gln Pro Thr Ala Leu Leu Thr Glu Thr
 130 135 140
 Leu Asn Glu Arg Gln Ala Arg Val Leu Thr Leu Gln Glu Leu Lys Asp
 145 150 155 160
 Lys Leu Glu Ala Ile Glu Gly Val Gln Phe Lys Gln Phe Asn Ser Ile
 165 170 175
 Thr Asp Tyr His Ser Leu Met Phe Asp Leu Gly Val Val Ala Arg Arg
 180 185 190

Leu Arg Ser Ala Ser Asp Arg Ser Lys Tyr Tyr Arg Leu Ile Glu Ala
 195 200 205
 Ser Leu Tyr Gly Gly Ile Ser Ser Ala Ile Thr Arg Ser Leu Arg Asp
 210 215 220
 Tyr Leu Leu Pro Glu Asn Ser Gly Val Arg Lys Ala Phe Gln Asp Met
 225 230 235 240
 Glu Ala Ala Leu Arg Glu Asn Arg Met Thr Leu Glu Ala Ile Arg Val
 245 250 255
 Thr Gln Ser Asp Arg Asp Leu Phe Lys His Leu Ile Ser Glu Ala Thr
 260 265 270
 Asn Tyr Val Ala Ala Asp Tyr Met Arg His Ala Asn Glu Arg Arg Ile
 275 280 285
 His Leu Asp Gln Ala Leu Glu Tyr Arg Arg Glu Leu Phe Thr Ser Arg
 290 295 300
 Lys Gln Leu Val Ala Glu Gln Tyr Lys His Val Glu Met Ala Arg Glu
 305 310 315 320
 Leu Gly Glu His Asn Gly Ala Glu Gly Asp Leu Glu Ala Asp Tyr Gln
 325 330 335
 Ala Ala Ser Asp His Leu Asn Leu Val Gln Thr Ala Leu Arg Gln Gln
 340 345 350
 Glu Lys Ile Glu Arg Tyr Glu Ala Asp Leu Asp Glu Leu Gln Ile Arg
 355 360 365
 Leu Glu Glu Gln Asn Glu Val Val Ala Glu Ala Ala Glu Leu Gln Glu
 370 375 380
 Glu Asn Glu Ala Arg Ala Glu Ala Ala Glu Leu Glu Val Asp Glu Leu
 385 390 395 400
 Lys Ser Gln Leu Ala Asp Tyr Gln Gln Ala Leu Asp Val Gln Gln Thr
 405 410 415
 Arg Ala Ile Gln Tyr Asn Gln Ala Leu Gln Ala Leu Gln Arg Ala Lys
 420 425 430
 Glu Leu Cys His Leu Pro Asp Leu Thr Pro Glu Ser Ala Asp Glu Trp
 435 440 445
 Leu Asp Thr Phe Gln Ala Lys Glu Gln Glu Ala Thr Glu Lys Leu Leu
 450 455 460
 Ser Leu Asp Gln Lys Met Ser Val Ala Gln Thr Ala His Ser Gln Phe
 465 470 475 480
 Glu Gln Ala Tyr Gln Leu Val Val Ala Ile Asn Gly Pro Leu Ala Arg
 485 490 495
 Asn Glu Ala Trp Asp Val Ala Arg Glu Leu Leu Arg Asp Gly Val Asn
 500 505 510
 Gln Arg His Leu Ala Glu Gln Val Gln Pro Leu Arg Met Arg Leu Asn
 515 520 525
 Glu Leu Glu Gln Arg Leu Arg Glu Gln Gln Glu Ala Glu Arg Leu Leu
 530 535 540
 Ala Glu Phe Cys Lys Arg Gln Gly Lys Asn Tyr Asp Phe Asp Glu Leu
 545 550 555 560
 Glu Ala Leu His Gln Glu Leu Glu Ala Arg Ile Ala Ala Leu Ser Asp
 565 570 575
 Thr Val Ser Asn Ala Ser Glu Gln Arg Met Thr Leu Arg Gln Glu Leu
 580 585 590
 Glu Gln Leu Gln Ser Arg Ser Lys Thr Leu Leu Gln Arg Ala Pro Ile
 595 600 605
 Trp Leu Ala Ala Gln Ser Ser Leu Asn Gln Leu Ser Glu Gln Cys Gly
 610 615 620
 Gln Glu Phe Ala Ser Ser Gln Asp Val Thr Glu Tyr Met Gln Gln Leu
 625 630 635 640
 Leu Glu Arg Glu Arg Glu Ala Ile Val Glu Arg Asp Glu Val Gly Ala
 645 650 655
 Arg Lys Arg Asp Val Asp Glu Glu Ile Glu Arg Leu Ser Gln Pro Gly
 660 665 670
 Gly Ser Glu Asp Pro Arg Leu Asn Ala Leu Ala Glu Arg Phe Gly Gly

675	680	685
Val Leu Ser Glu Ile Tyr Asp Asp	Val Gly Leu Asp Asp Ala Pro	
690	695	700
Tyr Phe Ser Ala Leu Tyr Gly Pro Ser Arg	Asn Ala Ile Val Val Pro	
705	710	715
Asp Leu Ser Leu Ile Ser Asp Gln Leu Ala Gly Leu Glu Asp Cys Pro		720
	725	730
Glu Asp Leu Tyr Leu Ile Glu Gly Asp Pro Gln Ser Phe Asp Asp Ser		735
	740	745
Val Phe Ser Val Asp Glu Leu Glu Lys Ala Val Val Val Lys Ile Ala		750
	755	760
Asp Arg Gln Trp Arg Tyr Ser Arg Phe Pro Glu Leu Pro Leu Phe Gly		765
	770	775
Arg Ala Ala Arg Glu Ser Arg Ile Glu Ser Leu His Ala Glu Arg Glu		780
	785	790
Thr Leu Ser Glu Arg Phe Ala Thr Leu Ser Phe Asp Val Gln Lys Thr		800
	805	810
Gln Arg Leu His Gln Ala Phe Ser Arg Phe Ile Gly Ser His Leu Gly		815
	820	825
Val Ala Phe Glu Pro Asp Pro Glu Ala Glu Ile Arg Lys Leu Asn Thr		830
	835	840
Arg Arg Gly Glu Leu Glu Arg Ala Leu Ala Ser His Glu Asn Asp Asn		845
	850	855
Gln Gln Ser Arg Val Gln Phe Glu Gln Ala Lys Glu Gly Val Ala Ala		860
	865	870
Leu Asn Arg Ile Leu Pro Arg Leu Asn Leu Leu Ala Asp Asp Thr Leu		875
	885	890
Ala Asp Arg Val Asp Glu Ile Gln Glu Arg Leu Asp Glu Ala Gln Glu		895
	900	905
Ala Ala Arg Phe Val Gln Gln His Gly Asn Gln Leu Ala Lys Leu Glu		910
	915	920
Pro Met Val Ser Val Leu Gln Ser Asp Pro Glu Gln Phe Glu Gln Leu		925
	930	935
Lys Glu Asp Tyr Ala Trp Ser Gln Gln Val Gln Arg Glu Ala Arg Gln		940
	945	950
Gln Ala Phe Ala Leu Thr Glu Val Val Gln Arg Arg Ala His Phe Gly		955
	965	970
Tyr Ser Asp Ser Ala Glu Met Leu Ser Gly Asn Ser Asp Leu Asn Glu		975
	980	985
Lys Leu Arg Gln Arg Leu Glu Gln Ala Glu Ala Glu Arg Thr Arg Ala		990
	995	1000
Arg Glu Ala Met Arg Thr His Ala Ala Gln Leu Ser Gln Tyr Ser Gln		1005
	1010	1015
Val Met Ala Ser Leu Lys Ser Ser Phe Asp Thr Lys Lys Glu Leu Leu		1020
	1025	1030
Asn Asp Leu His Lys Glu Leu Gln Asp Ile Gly Val Arg Ala Asp Ser		1035
	1045	1050
Gly Ala Glu Glu Arg Ala Arg Ile Arg Arg Asp Glu Leu His Ala Gln		1055
	1060	1065
Leu Ser Asn Asn Arg Ala Arg Arg Asn Gln Leu Glu Lys Ala Leu Thr		1070
	1075	1080
Phe Cys Glu Ala Glu Met Asp Asn Leu Thr Arg Arg Leu Arg Lys Leu		1085
	1090	1095
Glu Arg Asp Tyr His Glu Met Arg Glu Gln Val Val Thr Ala Lys Ala		1100
	1105	1110
Gly Trp Cys Ala Val Met Arg Met Val Lys Asp Asn Asn Val Glu Arg		1115
	1125	1130
Arg Leu His Arg Arg Glu Leu Ala Tyr Leu Ser Ala Asp Glu Leu Arg		1135
	1140	1145
Ser Met Ser Asp Lys Ala Leu Gly Ala Leu Arg Leu Ala Val Ala Asp		1150
	1155	1160
		1165

Asn Glu His Leu Arg Asp Val Leu Arg Met Ser Glu Asp Pro Lys Arg
 1170 1175 1180
 Pro Glu Arg Lys Ile Gln Phe Phe Val Ala Val Tyr Gln His Leu Arg
 1185 1190 1195 1200
 Glu Arg Ile Arg Gln Asp Ile Ile Arg Thr Asp Asp Pro Val Glu Ala
 1205 1210 1215
 Ile Glu Gln Met Glu Ile Glu Leu Gly Arg Leu Thr Glu Glu Leu Thr
 1220 1225 1230
 Ser Arg Glu Gln Lys Leu Ala Ile Ser Ser Arg Ser Val Ala Asn Ile
 1235 1240 1245
 Ile Arg Lys Thr Ile Gln Arg Glu Gln Asn Arg Ile Arg Gln Leu Asn
 1250 1255 1260
 Gln Gly Leu Glu Gln Ser Val Ser Phe Gly Gln Val Asn Ser Val Arg Leu
 1265 1270 1275 1280
 Asn Val Asn Val Arg Glu Ala His Ser Thr Leu Leu Asp Val Leu Ser
 1285 1290 1295
 Glu Gln His Glu Gln His Gln Asp Leu Phe Asn Ser Asn Arg Leu Thr
 1300 1305 1310
 Phe Ser Glu Ala Leu Ala Lys Leu Tyr Gln Arg Leu Asn Pro Gln Ile
 1315 1320 1325
 Asp Met Gly Gln Arg Thr Pro Gln Thr Ile Gly Glu Glu Leu Leu Asp
 1330 1335 1340
 Tyr Arg Asn Tyr Leu Glu Met Glu Val Glu Val Asn Arg Gly Ser Asp
 1345 1350 1355 1360
 Gly Trp Leu Arg Ala Glu Ser Gly Ala Leu Ser Thr Gly Glu Ala Ile
 1365 1370 1375
 Gly Thr Gly Met Ser Ile Leu Val Met Val Val Gln Ser Trp Glu Asp
 1380 1385 1390
 Glu Ala Arg Arg Leu Arg Gly Lys Asp Ile Ser Pro Cys Arg Leu Leu
 1395 1400 1405
 Phe Leu Asp Glu Ala Ala Arg Leu Asp Ala Arg Ser Ile Ala Thr Leu
 1410 1415 1420
 Phe Glu Leu Cys Glu Arg Leu Asp Met Gln Leu Ile Ile Ala Ala Pro
 1425 1430 1435 1440
 Glu Asn Ile Ser Pro Glu Lys Gly Thr Thr Tyr Lys Leu Val Arg Lys
 1445 1450 1455
 Val Phe Gln Asn Ser Glu His Val His Val Val Gly Leu Arg Gly Phe
 1460 1465 1470
 Ala Pro Gln Pro Pro Glu Ser Leu Pro Gly Thr Ala Asp Ala Ser
 1475 1480 1485

<210> 7272

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 7272

Gln Phe Leu Leu Pro Val Asp Leu Ile Ile Met Asp Lys Phe Asp Ala
 1 5 10 15
 Asn Arg Arg Lys Leu Leu Ala Leu Gly Gly Val Ala Leu Gly Ala Ala
 20 25 30
 Ala Ile Leu Pro Thr Pro Ala Phe Ala Thr Leu Ser Thr Pro Arg Pro
 35 40 45
 Arg Ile Leu Thr Leu Asn Asn Leu His Thr Gly Glu Thr Leu Lys Ala
 50 55 60
 Glu Phe Phe Asp Gly Arg Gly Tyr Ile Gln Asp Glu Leu Ala Arg Leu
 65 70 75 80
 Asn His Phe Phe Arg Asp Phe Arg Ala Asn Lys Ile Lys Ala Ile Asp
 85 90 95
 Pro Gly Leu Phe Asp Gln Leu Tyr Arg Leu Gln Gly Leu Leu Gly Thr
 100 105 110

Lys Arg Pro Val Gln Leu Ile Ser Gly Tyr Arg Ser Leu Asp Thr Asn
 115 120 125
 Asn Glu Leu Arg Ala His Ser Arg Gly Val Ala Lys Lys Ser Tyr His
 130 135 140
 Thr Lys Gly Gln Ala Met Asp Phe His Ile Glu Gly Val Ser Leu Ala
 145 150 155 160
 Asn Ile Arg Lys Ala Ala Leu Ser Met Arg Ala Gly Gly Val Gly Tyr
 165 170 175
 Tyr Pro Arg Ser Asn Phe Val His Ile Asp Thr Gly Pro Val Arg His
 180 185 190
 Trp

<210> 7273

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 7273

Thr Arg Arg Cys Ala Trp Ala Ser His Lys Pro Ile Ser Pro Asp Cys
 1 5 10 15
 Arg Arg Ser Gly Ser Arg Leu Thr Ile Thr Glu Pro Arg Tyr Arg Arg
 20 25 30
 Met Ser Leu Thr Asn Ile Glu Gln Val Met Pro Val Lys Leu Ala Gln
 35 40 45
 Ala Leu Ala Asn Pro Leu Phe Pro Ala Leu Asp Ser Gln Leu Arg Ala
 50 55 60
 Gly Arg His Ile Gly Leu Asp Glu Leu Asp Asn His Ala Phe Leu Met
 65 70 75 80
 Asp Phe Gln Glu Tyr Leu Glu Glu Phe Tyr Ala Arg Tyr Asn Val Glu
 85 90 95
 Leu Ile Arg Ala Pro Glu Gly Phe Phe Tyr Leu Arg Pro Arg Ser Thr
 100 105 110
 Thr Leu Ile Pro Arg Ser Val Leu Ser Glu Leu Asp Met Met Val Gly
 115 120 125
 Lys Ile Leu Cys Tyr Leu Tyr Leu Ser Pro Glu Arg Leu Ala Asn Glu
 130 135 140
 Gly Ile Phe Thr Gln Gln Glu Leu Tyr Asp Glu Leu Leu Ser Leu Ala
 145 150 155 160
 Asp Glu Ser Lys Leu Leu Lys Leu Val Asn Asn Arg Ser Thr Gly Ser
 165 170 175
 Asp Leu Asp Arg Gln Lys Leu Gln Glu Lys Val Arg Ser Ser Leu Asn
 180 185 190
 Arg Leu Arg Arg Leu Gly Met Val Trp Phe Met Gly His Asp Ser Ser
 195 200 205
 Lys Phe Arg Ile Thr Glu Ser Val Phe Arg Phe Gly Ala Asp Val Arg
 210 215 220
 Ala Gly Asp Asp Ala Arg Glu Ala Gln Leu Arg Met Ile Arg Asp Gly
 225 230 235 240
 Glu Ala Met Pro Val Glu Asn His Leu Gln Leu Asn Asp Glu His Glu
 245 250 255
 Glu Asn Gln Pro Asp Ser Gly Glu Glu
 260 265

<210> 7274

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 7274

Ser Ala Lys Pro Pro Thr Thr Trp Arg Arg Thr Ile Cys Ala Thr Pro

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1           5           10           15
Thr Ser Ala Val Phe Ile Ser Ile Arg Arg Trp Ser Ile Ala Ser
                20           25           30
Cys Leu Pro Pro Ala Asn Ser Trp Trp Pro Ser Ser Ile Ser Met Ser
                35           40           45
Lys Trp Arg Ala Asn Trp Ala Ser Thr Met Val Leu Lys Gly Ile Trp
                50           55           60
Lys Pro Ile Thr Arg Arg Pro Ala Ile Ile
65           70           75

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<210> 7275

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 7275

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Trp Trp Cys Arg Ala Gly Lys Met Lys Arg Ala Val Cys Ala Ala Lys
1           5           10           15
Thr Ser Leu His Val Val Cys Cys Ser Ser Met Lys Pro Arg Val Ser
                20           25           30
Thr Pro Ala Pro Ser Pro Arg Cys Leu Ser Phe Ala Ser Asp Ser Ile
                35           40           45
Cys Ser Ser Ser Ser Arg Arg Arg Lys Thr Ser Val Arg Lys Lys Gly
                50           55           60
Gln Pro Ile Ser Trp Cys Val Arg Cys Ser Arg Thr Val Asn Thr Cys
65           70           75           80
Thr Ser Trp Ala Cys Val Val Ser Pro Arg Ser His Arg Ser His Tyr
                85           90           95
Arg Ala Arg Leu Thr Pro Leu Asn Leu Gly Cys Asp Lys
                100           105           110

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<210> 7276

<211> 636

<212> PRT

<213> Enterobacter cloacae

<400> 7276

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Gly Lys Ala Ala Ala Cys Met Pro Phe Tyr Thr Glu Gly Lys Leu Gln
1           5           10           15
Asn Thr Gly His Val Val Lys Asn Arg Gly Gly Met Leu Leu Lys
                20           25           30
Lys Asn Arg Gly Arg Gln Leu Ser Ala Leu Ser Leu Cys Leu Thr Val
                35           40           45
Met Phe Ala Pro Leu Phe Thr Ala Gln Ala Asp Glu Pro Glu Ile Val
                50           55           60
Pro Thr Asp Ser Ser Ala Thr Met Gly Ala Gln Pro Thr Ser Leu Ser
65           70           75           80
Gln Pro Leu Asp Gln Ser Pro Ala Thr Ala Ile Met Ala Gly Ile Lys
                85           90           95
Pro Leu Pro Glu Gly Ile Asp Thr Gly Ser Leu Arg Gln Gln Leu Met
                100           105           110
Thr Gly Leu Pro Ser Gly Tyr Thr Pro Ala Tyr Ile Asn Gln Leu Thr
                115           120           125
Leu Leu Tyr Ala Ala Arg Asp Met Lys Pro Met Trp Glu Asn Arg Glu
                130           135           140
Ala Val Arg Ala Phe Gln Gln Gln Leu Ala Glu Val Ala Ile Ala Gly
145           150           155           160
Phe Gln Pro Gln Phe Thr Thr Trp Val Glu Leu Leu Thr Asp Pro Ala
                165           170           175
Val Thr Gly Gln Ala Arg Asp Val Val Leu Ser Asp Ala Met Met Gly
                180           185           190

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Tyr Leu Gln Phe Val Ala Gly Ile Ser Val Asn Gly Asn Arg Trp Leu
 195 200 205
 Tyr Ser Ser Lys Pro Tyr Lys Leu Ala Thr Pro Ala Leu Ser Val Ile
 210 215 220
 Asn Gln Trp Gln Leu Ser Leu Asp Asn Gly Glu Leu Pro Arg Phe Ile
 225 230 235 240
 Ala Ser Leu Ala Pro Ala His Pro Gln Tyr Ala Thr Met His Gln Ser
 245 250 255
 Leu Leu Glu Leu Val Ala Asp Ser Arg Pro Trp Pro Gln Leu Arg Gly
 260 265 270
 Thr Thr Thr Leu Arg Pro Gly Gln Trp Ser Ser Asp Val Pro Ala Ile
 275 280 285
 Arg Glu Ile Met Lys Arg Ser Gly Ile Leu Asp Ser Gly Pro Lys Ile
 290 295 300
 Ala Leu Pro Gly Asp Glu Thr Gln Asn Ala Val Val Ser Pro Ser Ala
 305 310 315 320
 Pro Val Lys Glu Lys Thr Ala Val Ala Leu Ser Asn Lys Pro Ala Ala
 325 330 335
 Tyr Asp Arg Glu Leu Val Ala Ala Val Lys Gln Phe Gln Ala Ala Gln
 340 345 350
 Gly Leu Gly Ala Asp Gly Val Ile Gly Pro Ser Thr Arg Asp Trp Leu
 355 360 365
 Asn Val Ser Pro Ala Gln Arg Ala Gly Val Leu Ala Leu Asn Ile Gln
 370 375 380
 Arg Leu Arg Leu Leu Pro Gly Thr Leu Ser Thr Gly Ile Met Val Asn
 385 390 395 400
 Ile Pro Ala Tyr Ser Leu Val Tyr Tyr Gln Asp Gly Ser Glu Val Leu
 405 410 415
 Ala Ser Arg Val Ile Val Gly Arg Pro Asp Arg Lys Thr Pro Met Met
 420 425 430
 Ser Ser Ala Leu Asn Asn Val Val Val Asn Pro Pro Trp Asn Val Pro
 435 440 445
 Pro Thr Leu Ala Arg Lys Asp Ile Leu Pro Lys Val Trp Asn Asp Pro
 450 455 460
 Gly Tyr Leu Glu Arg His Asn Tyr Thr Val Met Arg Gly Trp Asn Ser
 465 470 475 480
 Lys Glu Ala Ile Asp Pro Trp Met Val Asp Trp Ser Thr Ile Thr Pro
 485 490 495
 Ser Asn Leu Pro Phe Arg Phe Gln Gln Ala Pro Gly Ala His Asn Ser
 500 505 510
 Leu Gly Arg Tyr Lys Phe Asn Met Pro Ser Ser Asp Ala Ile Tyr Leu
 515 520 525
 His Asp Thr Pro Asn His Asn Leu Phe Gln Lys Asp Ala Arg Ala Leu
 530 535 540
 Ser Ser Gly Cys Val Arg Val Asn Lys Ala Ser Glu Leu Ala Asn Met
 545 550 555 560
 Leu Leu Gln Asp Ala Gly Trp Asn Asp Thr Arg Ile Ser Asp Ala Leu
 565 570 575
 Lys Gln Gly Asp Thr Arg Tyr Val Asn Ile Arg His Asn Ile Pro Val
 580 585 590
 Asn Leu Tyr Tyr Leu Thr Ala Phe Val Gly Ala Asp Gly Arg Thr Gln
 595 600 605
 Tyr Arg Thr Asp Ile Tyr Asn Tyr Asp Leu Thr Ala Arg Ser Gly Ala
 610 615 620
 Gln Ile Leu Pro Lys Ala Glu Gln Leu Ile Arg
 625 630 635

<210> 7277

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 7277

Tyr Arg Ala Gly Ser Ala Leu Val Ile Thr Lys His Arg Ser Ser Met
 1 5 10 15
 Asn Tyr Arg Ile Ile Pro Val Thr Ala Phe Ser Gln Asn Cys Ser Leu
 20 25 30
 Ile Trp Cys Glu Gln Thr Lys Leu Ala Leu Val Asp Pro Gly Gly
 35 40 45
 Asp Ala Glu Thr Ile Lys Gln Glu Val Ala Ala Ser Gly Val Thr Leu
 50 55 60
 Met Gln Ile Leu Leu Thr His Gly His Leu Asp His Val Gly Ala Ala
 65 70 75 80
 Ala Glu Leu Ala Glu His Tyr Gly Val Pro Ile Ile Gly Pro Glu Lys
 85 90 95
 Glu Asp Glu Phe Trp Leu Gln Gly Leu Pro Ala Gln Ser Arg Met Phe
 100 105 110
 Gly Leu Glu Asp Cys Gln Pro Leu Thr Pro Asp Arg Trp Leu Asn Glu
 115 120 125
 Asp Asp Arg Val Asn Val Gly Asn Val Thr Leu Gln Val Leu His Cys
 130 135 140
 Pro Gly His Thr Pro Gly His Ile Val Phe Phe Asp Asp Val Ser Arg
 145 150 155 160
 Leu Leu Ile Ser Gly Asp Val Ile Phe Lys Gly Gly Val Gly Arg Ser
 165 170 175
 Asp Phe Pro Arg Gly Asp His Gly Gln Leu Ile Gln Ser Ile Lys Gln
 180 185 190
 Lys Leu Leu Pro Leu Gly Asp Asp Val Thr Phe Ile Pro Gly His Gly
 195 200 205
 Pro Met Ser Thr Leu Gly Asp Glu Arg Leu His Asn Pro Phe Leu Gln
 210 215 220
 Asp Glu Met Pro Val Trp
 225 230

<210> 7278

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 7278

Gly Cys Arg Leu Gln His Arg Asp Asn Gly Phe Ala Gln Arg Arg His
 1 5 10 15
 Val Val Arg Arg His Thr Cys Asn Val His Ala Ala Arg Cys Asn Gly
 20 25 30
 Ile His Ala Lys Leu Phe Thr Gln Ala Gln His Leu Leu Phe Gly Gln
 35 40 45
 Ala Ala Glu Gly Glu His Ala Val Leu Leu Asp Asp Glu Ala Glu Val
 50 55 60
 Thr Val Ser Ala Phe Leu Ser Gln Arg Val His Lys Gln Gln Thr His
 65 70 75 80
 Ala Leu Asn Ala Leu Thr His Ile Val Gln Leu Leu Leu Pro Asp Gly
 85 90 95
 Ala Gln Arg Ile Val Ala Gln Asp Arg Arg Asp His Arg Arg Thr Val
 100 105 110
 Cys Arg Trp Val Gly Val Val Ser Ala Asp His Gly Leu His Leu Ala
 115 120 125
 Glu Cys Ala Ile Asp Gly Cys Phe Val Ser Ser His Gln Arg Thr Gly
 130 135 140
 Ala Asp Thr Leu Val Ile Gln Thr Lys Val Leu Gly Ile Gly Ala Cys
 145 150 155 160
 Asp Tyr Gln Leu Leu Met His Gly Gly Glu Cys Ala Gln Thr Phe Cys
 165 170 175

Ile Phe Phe Gln Thr Thr Gly Lys Ala Leu Val Ser Glu Val Lys Gln
 180 185 190
 Arg Gln Pro Ala Phe Phe Asn Gly Gln Leu Ser Gln Leu Phe Pro Leu
 195 200 205
 Leu Lys Arg Arg Ile Asp Thr Gly Trp Val Met Ala Ala Val Glu
 210 215 220
 Gln His His Ile Ala Arg Leu Gly Phe Ala Gln Ala Gly Gln Gln Ala
 225 230 235 240
 Val Glu Ile Gln Arg Val Ala Gly Cys Val Val Gly Val Phe Thr
 245 250 255
 His Phe Gln Thr Arg Arg Ile Lys His Ala Leu Met Val Arg Pro Ala
 260 265 270
 Trp Ile Ala Tyr Pro His Thr Leu His Arg Ser Val Phe Arg Gln Glu
 275 280 285
 Ile Cys Arg His Ala Gln Cys Ala Gly Thr Ala Trp Gly Leu Arg Arg
 290 295 300
 Ala Gly Ala Phe Phe Ala His Asn Gly Ala Ala Phe Ala Glu Gln Gln
 305 310 315 320
 Leu Leu Gly Ala Ala Thr Lys Phe Arg Asp Thr Ile Asn Thr Glu Val
 325 330 335
 Val Phe Gly Gly Phe Val Phe Gln Gln Ile Leu Leu Ser Phe Phe Asp
 340 345 350
 Ala Gly Gln Tyr Arg Ser Phe Ala Gly Phe Ile Phe Ile Tyr Thr Asn
 355 360 365
 Thr Gln Val Asp Phe Ser Arg Ala Val Val Gly Ala Lys Gln Ile Gly
 370 375 380
 Gln Ala Gln Asn Trp Val Gly Arg Ser Gly Ser Asn Val Leu Lys His
 385 390 395 400
 Asp Glu Val Pro Leu
 405

<210> 7279

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 7279

Asp Met Lys Pro Gly Tyr His Glu Ile Tyr Ser Arg Tyr Arg Asp Asn
 1 5 10 15
 Ile Met Arg Gly Val Leu Lys Pro Gly Asp Arg Val Pro Ala Ile Arg
 20 25 30
 Leu Leu Ala Glu Glu Leu Lys Val Ala Arg Lys Thr Val Glu Thr Ala
 35 40 45
 Tyr Ala Ile Leu Thr Gly Glu Gly Tyr Leu Val Ser Gln Gly Ala Arg
 50 55 60
 Gly Thr Arg Val Asn Pro Asp Leu Leu Leu Pro Ala Gln Asn Ala Pro
 65 70 75 80
 Thr Glu Gln Ala Thr Gly Thr Leu Pro Ala Ser Leu Ile Ser Gln Arg
 85 90 95
 Glu Arg Ala Gly Phe Leu Arg Pro Gly Ile Pro Ala Leu Asp Ser Phe
 100 105 110
 Pro Tyr Lys Lys Trp Leu Leu Leu Ala Gly Gln Ala Thr Arg Ala Met
 115 120 125
 Arg Gln Asp Glu Met Leu Asn Pro Pro Val Leu Gly Trp Tyr Pro Leu
 130 135 140
 Arg Glu Ala Ile Ala Arg Tyr Leu Asn Ile Ser Arg Gly Leu Ser Cys
 145 150 155 160
 Thr Ala Glu Gln Val Met Ile Thr Ser Gly Tyr Ser Gly Ser Leu Arg
 165 170 175
 Leu Ile Leu Asp Thr Leu Ala Ser Arg Ser Asp Lys Val Val Phe Glu
 180 185 190

Asp Pro Gly Tyr Phe Met Gly Gln Gln Leu Leu Lys Arg Ile Val Pro
 195 200
 Arg Leu His Thr Val Pro Val Asp Arg Ala Gly Met Asp Thr Asp Tyr
 210 215 220
 Leu Leu Arg Asn His His Asp Ala Arg Phe Ala Ile Val Thr Pro Ser
 225 230 235 240
 His Gln Ser Pro Leu Ala Val Thr Leu Ser Leu Pro Arg Lys Gln Gln
 245 250 255
 Leu Leu Asp Trp Ala Ser Gln Asn Glu Ala Trp Ile Ile Glu Asp Asp
 260 265 270
 Tyr Asp Gly Glu Phe His Tyr Thr Arg Lys Val Leu Pro Ser Leu Lys
 275 280 285
 Ser Leu Asp Gln His Asp Arg Val Ile Phe Met Gly Thr Phe Ser Lys
 290 295 300
 Thr Ile Met Pro Ser Leu Arg Met Gly Tyr Val Val Met Pro Ala Ser
 305 310 315 320
 Thr Val Gly Val Phe Thr Asp Ser Ala Asp Ile Leu Thr Ser Gly Gln
 325 330 335
 Pro Val Leu Thr Gln Lys Ile Leu Thr Ala Phe Leu Asn Glu Gly His
 340 345 350
 Phe Phe Arg His Leu Lys Lys Met Arg Ala Leu Tyr Gln Thr Arg Arg
 355 360 365
 Asp Trp Met Ile Ala Ala Leu Arg Glu Val Tyr Gly Asp Leu Phe Phe
 370 375 380
 Thr Glu Gln Asn Asp Gly Gly Met His Ile Val Ala Phe Leu Ala Lys
 385 390 395 400
 Gly Ser Ala Asp Arg Glu Ile Ala Arg Cys Trp Gln Glu Gln Gln Leu
 405 410 415
 Gln Val Asn Ala Leu Ser Gly Trp Tyr His Gly Ser Gly Lys Arg Tyr
 420 425 430
 Gly Leu Val Met Gly Tyr Asn Asn Val Arg Ser Tyr Gln Glu Ala Leu
 435 440 445
 Asp Leu Leu Glu Arg Pro Lys Arg Gln Thr Leu Glu Leu Ser
 450 455 460

<210> 7280

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 7280

Cys Ser Pro Arg Tyr Ala Ser Gly Val Ile Ile Met Glu Asn Gly Gln
 1 5 10 15
 Tyr Asn Thr Asp Ser Lys Thr Ala Phe Val Tyr His Thr Asp Pro Leu
 20 25 30
 Lys Arg Tyr Leu His Gly Gly Leu Phe Ile His Leu Tyr Trp Phe Asn
 35 40 45
 Ala Leu Tyr Gly Glu Asn Lys Gly Tyr Ser Met Thr Arg Tyr Gln His
 50 55 60
 Leu Ala Asn Leu Leu Ala Glu Arg Ile Glu Gln Gly Leu Tyr Arg Ser
 65 70 75 80
 Gly Glu Arg Leu Pro Ser Val Arg Thr Leu Ser Gln Glu His Gly Val
 85 90 95
 Ser Ile Ser Thr Ile Gln Gln Ala Tyr Gln Ile Leu Glu Asn Leu Gln
 100 105 110
 Leu Ile Thr Pro Gln Pro Arg Ser Gly Tyr Phe Val Ser Lys Arg Lys
 115 120 125
 Ala Gln Pro Pro Val Pro Ala Met Thr Arg Pro Val Gln Arg Pro Val
 130 135 140
 Asp Val Thr Gln Trp Asp Glu Val Met Met Leu Leu Asp Ala Arg Ala
 145 150 155 160

Asp Lys Glu Met Ile Ser Phe Gly Gly Gly Ser Pro Asp Ile Asn Gln
 165 170
 Pro Ser Leu Lys Pro Leu Trp Arg Glu Met Ser Arg Ile Ala Gln His
 180 185 190
 Asn Pro Gly Glu Met Leu Ser Tyr Asp Val Leu Asp Gly Arg Leu Glu
 195 200 205
 Leu Arg Glu Gln Ile Ala Arg Leu Met Leu Asp Gly Gly Ser Thr Val
 210 215 220
 Ala Ala Asn Glu Ile Val Ile Thr Asn Gly Cys His Gly Ala Leu Ser
 225 230 235 240
 Ile Ala Leu Leu Ser Val Cys Lys Pro Gly Asp Ile Val Ala Val Glu
 245 250 255
 Ser Pro Ser Phe His Gly Thr Met Gln Met Leu Arg Gly Phe Asp Ile
 260 265 270
 Lys Ala Ile Glu Ile Pro Thr Asp Pro Glu Thr Gly Ile Ser Ile Glu
 275 280 285
 Ala Leu Glu Leu Ala Leu Glu Gln Trp Pro Ile Lys Ala Val Ile Leu
 290 295 300
 Val Pro Asn Cys Asn Asn Pro Leu Gly Phe Ile Met Pro Glu Ala Arg
 305 310 315 320
 Lys Lys Gln Val Leu Ala Leu Ala Gln Arg His Asp Ile Val Ile Val
 325 330 335
 Glu Asp Asp Ile Tyr Gly Glu Leu Ala Ala Glu Tyr Pro Arg Pro Arg
 340 345 350
 Thr Ile His Ser Met Asp Ile Asp Gly Arg Val Leu Leu Cys Ser Ser
 355 360 365
 Phe Thr Lys Thr Val Ala Pro Gly Leu Arg Val Gly Trp Ile Val Pro
 370 375 380
 Gly Arg Tyr Tyr Asp Arg Val Met His Met Lys Tyr Ala Ala Gly Gly
 385 390 395 400
 Phe Asn Val Pro Gly Thr Gln Met Ala Val Ala Ala Phe Ile Arg Asp
 405 410 415
 Gly His Tyr His Arg His Val Arg Arg Met Arg Gln Ile Tyr Gln Gln
 420 425 430
 Asn Met Glu Thr Tyr Thr Cys Trp Val Arg Gln Tyr Phe Pro Ala Glu
 435 440 445
 Ile Cys Val Thr Arg Pro Gln Gly Ser Phe Leu Leu Trp Val Glu Leu
 450 455 460
 Pro Glu Thr Val Asp Met Val Cys Val Ser Lys Gln Leu Cys Arg Leu
 465 470 475 480
 Lys Ile Gln Ala Ala Ala Gly Ser Leu Phe Ser Ala Ser Gly Lys Tyr
 485 490 495
 Arg Asn Cys Leu Arg Ile Asn Val Ala Leu Pro Pro Thr Asp Lys Asn
 500 505 510
 Arg Glu Ala Leu Lys Lys Met Ser Thr Arg Arg Gly Gly Val Pro Arg
 515 520 525
 Leu

<210> 7281

<211> 425

<212> PRT

<213> *Enterobacter cloacae*

<400> 7281

Pro Met Glu Lys His Thr Glu Leu Lys Arg Ala Lys Leu Leu Ala Leu
 1 5 10 15
 Ser Leu Leu Leu Ile Ala Val Ala Ala Phe Ile Thr Thr Leu Phe Met
 20 25 30
 Pro Gln Thr Phe Trp Val Arg Gly Val Lys Ala Ile Ala Glu Ala Ala
 35 40 45

Met Val Gly Ala Leu Ala Asp Trp Phe Ala Val Val Ala Leu Phe Arg
 50 55 60
 Arg Val Pro Ile Pro Phe Ile Ser Arg His Thr Ala Ile Ile Pro Arg
 65 70 75 80
 Asn Lys Asp Arg Ile Gly Asp Asn Leu Gly Gln Phe Val Gln Glu Lys
 85 90 95
 Phe Leu Asp Thr Gln Ser Leu Val Asp Leu Ile Arg Arg Tyr Glu Pro
 100 105 110
 Ala Gln Met Ile Gly Thr Trp Phe Ser Gln Pro Asp Asn Ala Arg Arg
 115 120 125
 Val Gly Gln His Leu Val Gln Val Met Gly Gly Phe Leu Glu Leu Thr
 130 135 140
 Asp Asp Gly Arg Ile Gln Arg Leu Leu Lys Arg Ala Val His Lys Ala
 145 150 155 160
 Ile Asp Lys Val Asp Leu Thr Glu Thr Ser Ala Val Met Leu Glu Ser
 165 170 175
 Met Thr Lys Asn Asn Arg His Gln Val Leu Leu Asp Ala Ile Ile Asn
 180 185 190
 Arg Leu Ile Thr Leu Ile Gln Arg Glu Ser Thr Arg Glu Phe Ile Ala
 195 200 205
 Asp Gln Ile Val His Trp Leu Lys Thr Glu His Pro Arg Lys Ala Met
 210 215 220
 Val Leu Pro Thr Glu Trp Leu Gly Asp Gln Ser Ala Glu Met Val Ser
 225 230 235 240
 Asn Ala Val Asn Thr Leu Leu Asp Asp Ile Ser His Asp Arg Thr His
 245 250 255
 Gln Ile Arg Gln Ala Phe Asp Arg Ala Thr Ile Lys Phe Ile Asp Asn
 260 265 270
 Leu Lys Asn Asp Pro Glu Met Thr Ala Lys Ala Glu Asn Ile Lys His
 275 280 285
 Tyr Leu Lys Asn Asp Glu Ala Phe Asn Arg Tyr Leu Gly Glu Met Trp
 290 295 300
 Ala Asp Leu Arg Gln Trp Leu Lys Asn Asp Met Gln Ser Asp Asp Ser
 305 310 315 320
 Arg Val Lys Gln Arg Ile Ala Asn Ala Gly Leu Trp Phe Gly Glu Thr
 325 330 335
 Leu Thr Asn Asp Ala Ser Leu Arg Ala Ser Leu Asn Glu His Leu Glu
 340 345 350
 Gln Ala Ala His Arg Val Ala Pro Asp Phe Ala Ala Phe Leu Thr Arg
 355 360 365
 His Ile Ser Asp Thr Val Lys Ser Trp Asp Ala Lys Asp Met Ser Arg
 370 375 380
 Gln Ile Glu Leu Asn Ile Gly Lys Asp Leu Gln Phe Ile Arg Val Asn
 385 390 395 400
 Gly Thr Leu Val Gly Gly Thr Ile Gly Leu Ile Leu Phe Leu Leu Ser
 405 410 415
 Gln Leu Pro Ala Val Leu Gly His
 420 425

<210> 7282

<211> 176

<212> PRT

<213> *Enterobacter cloacae*

<400> 7282

Gly Thr Arg Met Arg Val Pro Ala Thr His Ala Cys Pro Leu Phe Ile
 1 5 10 15
 Asn Pro Ala Trp Ile Thr Cys Gly Ile Ala Cys Ser Arg Ser Thr Ser
 20 25 30
 Ser Ser Arg Ile Val Gly Asp Leu Pro Pro Asn Ser Ser Val Thr Arg
 35 40 45

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Leu Lys Leu Ser Ala Ala Leu Arg Arg Ile Ala Leu Pro Val Phe Val
50 55 60
Glu Pro Val Asn Glu Ile Phe Ala Thr Ser Gly Trp Arg Leu Arg Val
65 70 75 80
Ser Pro Thr Val Ser Pro Arg Pro Val Thr Met Leu Asn Thr Pro Gly
85 90 95
Gly Ser Ala Ala Ser Arg Ser Ala Ser Val Thr Ile Cys Val Cys Arg
100 105 110
Ala Leu Ile Ser Leu Gly Leu Met Thr Ala Val Gln Pro Ala Ala Ser
115 120 125
Ala Ala Ala Ser Leu Pro Gln Ile Asn Pro Ala Ser Leu Phe His Gly
130 135 140
Val Ile Ser Pro Ala Thr Pro Ser Gly Val Ile Cys Thr Val Ala Ala
145 150 155 160
Pro Ala Glu Val Thr Asn Ser Asn Ala Ser Ser Ala Ser Met Ala
165 170 175

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<210> 7283

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 7283

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Ser Met His Arg Ser Gly Leu Thr Glu Leu Glu Val Val Met Ala Val
1 5 10 15
Val Arg Arg Gly Ser Phe Arg Gly Ala Ala Gln Glu Leu Gly Met Ser
20 25 30
Ala Thr Ala Val Ser Asn Ala Ile Ala Gly Leu Glu Ser Arg Leu Glu
35 40 45
Thr Arg Leu Phe Asn Arg Thr Thr Arg Ser Val Ala Leu Thr Asp Ala
50 55 60
Gly Gln Arg Tyr Val Ala Arg Ile Gly Pro Ala Leu Gln Glu Ile Arg
65 70 75 80
Leu Ala Gly Glu Glu Ile His Ser Asp Thr Gly Glu Pro Ala Gly Thr
85 90 95
Leu Arg Leu Asp Val Pro Asn His Ile Gly Thr Leu Phe Leu Asp Gln
100 105 110
Leu Leu Ile Asp Phe Met Ile Arg Tyr Pro Lys Met Arg Val Glu Thr
115 120 125
Val Ser Glu Ala Arg Met Ile Asp Ile Val Ala Glu Gly Tyr Asp Ala
130 135 140
Gly Ile Arg Leu Glu Glu Ser Val Pro Gln Asp Met Ile Ala Val Pro
145 150 155 160
Leu Thr Gly Glu Ile Arg Gln Leu Val Thr Ala Thr Pro Asp Tyr Phe
165 170 175
Ala Arg His Gly Ile Pro Glu Thr Pro Asp Asp Leu Leu Ser His Gln
180 185 190
Gly Ile Gly Met Arg Met Ala His Gly Gly Ile Tyr Arg Trp Glu Leu
195 200 205
Ala Arg Arg Gly Glu Thr Tyr Ala Leu Ala Val Pro Pro Arg Phe Ala
210 215 220
Thr Ser Asp Leu Phe Ala Ser Ile Arg Ala Val Lys Ala Gly Leu Gly
225 230 235 240
Val Gly Phe Leu Pro Glu Leu Tyr Ile Gln Asp Glu Leu Lys Ser Gly
245 250 255
Glu Leu Val Ser Val Leu Asn Asp Trp Ala Gln Pro Phe Ala Gly Leu
260 265 270
Arg Leu Tyr Tyr Pro Gly His Arg His Val Pro Pro Gly Leu Arg Ala
275 280 285
Leu Val Ala Met Ile Arg Glu Arg Gly Ile Ile Pro Gly
290 295 300

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<210> 7284
 <211> 350
 <212> PRT
 <213> Enterobacter cloacae

<400> 7284

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Pro Ala Arg Asp Ile Glu Ile Ala Gly Tyr Arg Leu Ala Gln Arg Ile
1      5      10      15
Pro Ala Gln Asn Gly Arg Val Glu His Phe Ile Leu Thr His Gly Ala
20     25     30
Arg Arg Leu Ala Arg Gln Gln Gln Pro Phe Phe Ile Gly Glu Ala Val
35     40     45
Glu Gly Gly Asn Ala Gly Ala Gln Lys Thr Gly Pro Phe Ala Leu Ala
50     55     60
Asn Gln Arg Arg Arg Gln Arg Ala Gly Arg Leu Phe Cys Gly Gly Val
65     70     75     80
Leu Arg Gly Gln Gln Lys Ile Arg Ile His Pro Arg Pro Ala Arg Ala
85     90     95
Leu Ala His Gln Ile Pro Phe Ala Arg Gln Asn Gly Ile Arg Arg Leu
100    105    110
Asp Gly Phe Ala Arg His Leu Gln Leu Phe Arg Gln Gln Ala Asp Gly
115    120    125
Arg Tyr Pro Val Ala Arg Leu Gln His Ala Ala His Asp Val Val Ala
130    135    140
Ile Ala Gly Ile Asn Leu Val Ile Ala Arg Leu His Val Leu Pro Asn
145    150    155    160
Phe Thr Leu Phe Val Ser Phe Tyr Tyr Val Met Asn Gly Val Asp Leu
165    170    175
Leu His Arg Met Thr His Ala Ala Gln Lys Arg Gly Lys Thr Met Ser
180    185    190
Thr Arg Val Asn His His Lys Ala Thr Pro Ala Leu Thr Asn Ala Leu
195    200    205
Ser Ala Leu Ser Met Glu Val Ala Lys Thr Ser Ile Asp Pro Ala Leu
210    215    220
Lys His Leu Ile Asp Ile Arg Val Ser Gln Leu Asn Gly Cys Thr Phe
225    230    235    240
Cys Leu Asp Met His Ser Lys Glu Ala Lys Ile Ala Gly Glu Arg Glu
245    250    255
Leu Arg Leu Tyr His Leu Ala Ala Trp Arg Glu Ser Pro Leu Phe Ser
260    265    270
Ala Arg Glu Lys Ala Ala Leu Ala Phe Thr Glu Ala Leu Thr Gln Ile
275    280    285
Gly Val His Gly Val Ser Asp Ala Leu Tyr Arg Ser Val Ala Glu His
290    295    300
Phe Ser Asp Val Glu Ile Ser Glu Leu Asn Phe Ala Ile Val Ala Ile
305    310    315    320
Asn Ala Trp Asn Arg Leu Gly Ile Thr Ser Arg Met Glu Pro Gly Ser
325    330    335
Leu Asp Ala Ala Tyr Gly Leu Asn Lys Ala Asn Leu Glu
340    345    350

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<210> 7285
 <211> 165
 <212> PRT
 <213> Enterobacter cloacae

<400> 7285

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Trp Arg Thr Thr Arg Gly Leu Pro Met Ser Glu Glu Asp Leu Phe Ser
1      5      10      15
Arg Arg Pro Met Gly Met Arg Met Ala Met Ile Val Arg Gln Trp Arg

```

20										25										30																													
Ala	Val	Ile	Asp	Asp	Ala	Ile	Leu	Asp	Thr	Gly	Leu	Thr	Gln	Ser	Ser	Ala	Val	Ile	Asp	Asp	Ala	Ile	Leu	Asp	Thr	Gln	Ser	Ser	Ala	Val	Ile	Asp	Asp	Ala	Ile	Leu	Asp	Thr	Gln	Ser	Ser								
Trp	Thr	Val	Met	Met	Gln	Leu	His	Gln	Leu	Gly	Asp	Asn	Val	Ser	Val	Trp	Thr	Val	Met	Met	Gln	Leu	His	Gln	Leu	Gly	Asp	Asn	Val	Ser	Val	Trp	Thr	Val	Met	Met	Gln	Leu	His	Gln	Leu	Gly	Asp	Asn	Val	Ser	Val		
Ser	Glu	Leu	Ala	Glu	Val	Gln	Gly	Ile	Glu	Leu	Pro	Pro	Leu	Met	Arg	Ser	Glu	Leu	Ala	Glu	Val	Gln	Gly	Ile	Glu	Leu	Pro	Pro	Leu	Met	Arg	Ser	Glu	Leu	Ala	Glu	Val	Gln	Gly	Ile	Glu	Leu	Pro	Pro	Leu	Met	Arg		
Thr	Leu	Thr	Gln	Leu	Glu	Lys	Gln	Gly	Tyr	Leu	Leu	Arg	Thr	Val	Ser	Thr	Leu	Thr	Gln	Leu	Glu	Lys	Gln	Gly	Tyr	Leu	Leu	Arg	Thr	Val	Ser	Thr	Leu	Thr	Gln	Leu	Glu	Lys	Gln	Gly	Tyr	Leu	Leu	Arg	Thr	Val	Ser		
Pro	Tyr	Asp	Lys	Arg	Ile	Arg	Leu	Leu	Thr	Leu	Thr	Pro	Glu	Gly	Lys	Pro	Tyr	Asp	Lys	Arg	Ile	Arg	Leu	Leu	Thr	Leu	Thr	Pro	Glu	Gly	Lys	Pro	Tyr	Asp	Lys	Arg	Ile	Arg	Leu	Leu	Thr	Leu	Thr	Pro	Glu	Gly	Lys		
Ala	Ile	Leu	Glu	Arg	Leu	Ser	Gln	Val	Ile	Glu	Thr	Phe	Gln	Ala	Arg	Ala	Ile	Leu	Glu	Arg	Leu	Ser	Gln	Val	Ile	Glu	Thr	Phe	Gln	Ala	Arg	Ala	Ile	Leu	Glu	Arg	Leu	Ser	Gln	Val	Ile	Glu	Thr	Phe	Gln	Ala	Arg		
Val	Ser	Gln	Asn	Ile	Ala	Pro	Glu	His	Ile	Asp	Ile	Phe	Ser	Ala	Thr	Val	Ser	Gln	Asn	Ile	Ala	Pro	Glu	His	Ile	Asp	Ile	Phe	Ser	Ala	Thr	Val	Ser	Gln	Asn	Ile	Ala	Pro	Glu	His	Ile	Asp	Ile	Phe	Ser	Ala	Thr		
Leu	Asn	Gln	Ile	Ala	Cys	Asn	Leu	Arg	Thr	Ile	Arg	Glu	Glu	Asp	Asn	Leu	Asn	Gln	Ile	Ala	Cys	Asn	Leu	Arg	Thr	Ile	Arg	Glu	Glu	Asp	Asn	Leu	Asn	Gln	Ile	Ala	Cys	Asn	Leu	Arg	Thr	Ile	Arg	Glu	Glu	Asp	Asn		
Lys	Thr	Glu	Lys													Lys	Thr	Glu	Lys														Lys	Thr	Glu	Lys													
165																																																	

<212> PRT

<213> *Enterobacter cloacae*

<400> 7287

```

Pro His Trp His Ser Glu Glu Ser Ile Met Glu Phe Tyr Glu Asn Arg
1          5          10          15
Ser Lys Arg Pro Phe Ile Ala Phe Val Trp Val Ala Lys Thr Leu Arg
          20          25          30
Asn Trp Tyr Arg Ile Asn Arg Thr Arg Arg Ile Leu Ser Gln Met Ser
          35          40          45
Asp Glu Gln Leu Lys Asp Val Gly Leu Ser Arg Tyr Asp Val
          50          55          60

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<210> 7288

<211> 483

<212> PRT

<213> *Enterobacter cloacae*

<400> 7288

```

Gln Thr Gly Leu Thr Gln Pro Glu Glu Val Tyr Met His Thr Ile Glu
1          5          10          15
Gln Ile Phe Ile Asn Gly Glu Phe Val Thr Pro His Gly Thr Glu Arg
          20          25          30
Phe Asp Leu Tyr Asn Pro Ala Thr Ala Gln Val Ile Gly Gln Val Arg
          35          40          45
Leu Ala Asp Glu Val Asp Ala Glu Arg Ala Ile Ala Ala Lys Ala
          50          55          60
Ala Phe Pro Ala Trp Ser Gln Thr Thr Lys Gln Glu Arg Ile Ala Ala
65          70          75          80
Leu Lys Arg Met His Ala Ala Val Ala Ala Arg His Asp Ala Leu Leu
          85          90          95
Glu Ala Val Ile Glu Glu Tyr Gly Ala Pro Ala Ser Arg Ser Ala Trp
          100          105          110
Met Ala Ser Tyr Pro Ala Glu Val Ile Ala Gln Ala Ile Glu Ala Leu
          115          120          125
Glu Ala Phe Glu Phe Val Thr Ser Ala Gly Ala Ala Thr Val Gln Met
          130          135          140
Thr Pro Leu Gly Val Ala Gly Leu Ile Thr Pro Trp Asn Ser Asp Ala
145          150          155          160
Gly Phe Ile Cys Gly Lys Leu Ala Ala Ala Leu Ala Gly Cys Thr
          165          170          175
Ala Val Ile Lys Pro Ser Glu Met Ser Ala Leu Gln Thr Gln Ile Val
          180          185          190
Thr Glu Ala Leu Arg Asp Ala Ala Leu Pro Pro Gly Val Phe Asn Ile
          195          200          205
Val Thr Gly Arg Gly Glu Thr Val Gly Glu Thr Leu Ser Arg His Pro
210          215          220
Asp Val Ala Lys Ile Ser Phe Thr Gly Ser Thr Asn Thr Gly Lys Ala
225          230          235          240
Ile Leu Arg Asn Ala Ala Glu Ser Phe Lys Arg Val Thr Leu Glu Leu
          245          250          255
Gly Gly Lys Ser Pro Thr Ile Leu Leu Asp Asp Val Asp Leu Glu Gln
260          265          270
Ala Ile Pro Gln Val Ile Gln Ala Gly Phe Met Asn Ser Gly Gln Ala
275          280          285
Cys Val Ala Gly Thr Arg Ile Leu Val Pro Tyr Ser Arg Lys Ala Glu
290          295          300
Ile Glu Thr Ala Leu Ala Gln Ala Val Ala Val Lys Ser Gly Asp
305          310          315          320
Pro Arg Asn Ser Thr Thr Asp Val Gly Pro Met Val Ser Glu Lys Gln
          325          330          335

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Trp Leu Arg Val Gln Gly Tyr Ile Arg Lys Gly Ile Glu Glu Gly Ala
 340 345 350
 Arg Leu Leu Ala Gly Gly Glu Gly Arg Pro Glu Gly Thr Arg Asp Gly
 355 360 365
 Trp Phe Val Arg Pro Thr Leu Phe Ala Gly Val Asn Asn Arg Met Thr
 370 375 380
 Ile Ala Arg Asp Glu Ile Phe Gly Pro Val Leu Cys Val Ile Pro Tyr
 385 390 395 400
 Gln Asp Glu Ala Glu Ala Ile Ala Ile Ala Asn Asp Thr Glu Tyr Gly
 405 410 415
 Leu Ser Ala Met Val Leu Gly Gly Asp Val Asp Arg Ala Arg Arg Val
 420 425 430
 Ala Gln Gln Ile Val Ser Gly Arg Val Leu Val Asn Thr Leu Ala His
 435 440 445
 Glu Pro Lys Ala Pro Phe Gly Gly Phe Lys His Ser Gly Val Gly Arg
 450 455 460
 Glu Met Gly Glu Trp Gly Ile Arg Ala Phe Met Glu Pro Arg Ser Val
 465 470 475 480
 Leu Gly

<210> 7289

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 7289

Ser Phe Ala Leu Tyr Arg Ser Ile Val Leu Phe His Pro Ala Phe Ser
 1 5 10 15
 Pro Gln His His Ser Gly Glu Thr Ile Met Ile Ala Val Leu Phe Glu
 20 25 30
 Ala Lys Ala Ala Pro Ala His Gln Ala Arg Tyr Leu Gln Leu Ala Ala
 35 40 45
 Glu Leu Lys Pro Leu Leu Ala Asp Ile Asp Gly Phe Ile Asp Ile Glu
 50 55 60
 Arg Phe Gln Ser Leu Thr Thr Asp Gly Lys Ile Leu Ser Leu Ser Trp
 65 70 75 80
 Trp Arg Asp Glu Glu Ala Val Arg Arg Trp Lys Gln Asn Val Phe His
 85 90 95
 Gln Ala Ala Gln Ala Glu Gly Arg Ala Leu Ile Phe Ser Phe Tyr Arg
 100 105 110
 Ile Arg Val Ala Gln Leu Val Arg Glu Tyr Ser Ser Glu Thr Gly Gly
 115 120 125
 His Ala Asp Val
 130

<210> 7290

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 7290

Asp Arg Lys Ile Met Thr Pro Glu Gln Lys Phe Ala Arg Trp Val Arg
 1 5 10 15
 Val Ser Ile Ala Ser Phe Leu Leu Met Phe Val Tyr Phe Ile Val Ala
 20 25 30
 Asp Ile Trp Ile Pro Leu Thr Pro Asp Ser Thr Val Met Arg Val Val
 35 40 45
 Thr Pro Val Ser Ala Arg Val Ser Gly Tyr Val Ala Ala Val His Val
 50 55 60
 His Asn Asn Ser Gln Val Lys Lys Gly Asp Leu Leu Phe Glu Leu Asp

```

65          70          75          80
Ala Thr Pro Phe Arg Asn Lys Val Glu Ala Ala Gln Ile Ala Leu Glu
85
Gln Ala Arg Leu Ser Asn Asp Gln Leu Asp Ala Gln Ile Ala Ala Ala
100
Gln Ala Ser Leu Lys Thr Ala Val Leu Thr Ala Arg Asn Asp Lys Val
115
Thr Phe Asp Arg Tyr Gln Lys Leu Ser Thr Leu Gln Asn Val Ser Gln
130
Ala Asp Leu Asp Lys Val Arg Thr Thr Trp Gln Ser Ser Glu Gln Ser
145
Val Ser Ser Ile Gln Ala Asn Ile His Asn Leu Arg Ile Gln Arg Gly
165
Glu Arg Asp Glu His Arg Asn Val Thr Leu Gln Lys Tyr Arg Asn Ala
180
Leu Asp Glu Ala Glu Leu Asn Leu Gly Trp Thr Lys Val Tyr Ala Glu
195
Ala Asp Gly Thr Val Ser Asn Leu Gln Leu Ser Pro Gly Phe Tyr Ala
210
Ser Ser Gly Ser Ala Ala Leu Ala Leu Val Asn Thr Arg Ile Asp Ile
225
Val Ala Asp Phe Arg Glu Lys Ser Leu Arg His Thr His Gln Gly Thr
245
Asp Ala Ala Val Val Phe Asp Ala Phe Pro Gly His Val Phe Arg Ala
260
His Val Thr Ser Ser Asp Ala Gly Ile Leu Ala Gly Gln Glu Ala Val
275
Asn Gly Gln Leu Ser Glu Pro Glu Thr Ser Asn Arg Trp Val Arg Asp
290
Ala Gln Arg Met Arg Ile His Val Ala Leu Asp Glu Ala Leu Pro Lys
305
Pro Leu Pro Thr Gly Ala Arg Ala Thr Val Gln Leu Tyr Asn Ser Glu
325
Gly Pro Phe Ala Arg Phe Phe Ser Gly Met Gln Ile His Leu Val Ser
340
Leu Leu His Tyr Val Tyr
355

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<210> 7291

<211> 316

<212> PRT

<213> *Enterobacter cloacae*

<400> 7291

```

Lys Arg Pro Gln Asn Asn Glu Glu Ser Arg Met Thr Met Ile Lys Gly
1          5          10          15
Ile Thr Gly Ser Ala Val Leu Leu Ala Ala Leu Ser Leu Pro Leu Gln
20
Ala Ala Glu Pro Val Lys Val Gly Ser Lys Ile Asp Thr Glu Gly Ala
35
Leu Leu Gly Asn Ile Ile Leu Gln Val Leu Glu Ser His Gly Val Lys
50
Thr Val Asn Lys Val Gln Leu Gly Thr Thr Pro Val Val Arg Gly Ala
65
Ile Thr Ser Gly Glu Leu Asp Ile Tyr Pro Glu Tyr Thr Gly Asn Gly
85
Ala Phe Phe Phe Lys Asp Glu Asn Asp Pro Ala Trp Lys Asn Ala Lys
100
Ala Gly Tyr Glu Lys Val Lys Lys Leu Asp Ala Glu Lys Asn Lys Leu
115
Val Trp Leu Thr Pro Ala Pro Ala Asn Asn Thr Trp Thr Ile Ala Val
120          125

```

130	135	140
Arg Lys Asp Ile Ala Glu	Lys Gly Lys Leu Thr	Ser Leu Asp Asp Leu
145	150	155
Ser Arg Tyr Leu Lys Glu	Lys Gly Glu Phe Lys	Leu Ala Ala Ser Ala
165	170	175
Glu Phe Ile Glu Arg Ala	Asp Ala Leu Pro Ala Phe	Glu Lys Ala Tyr
180	185	190
Asp Phe Lys Leu Asp Gln	Ala Gln Leu Leu Ser Leu	Ala Gly Gly Asp
195	200	205
Thr Ala Val Thr Ile Lys	Ala Ala Ala Gln Gln Thr	Ser Gly Val Asn
210	215	220
Ala Ala Met Ala Tyr Gly	Thr Asp Gly Pro Val Ala	Ala Leu Gly Leu
225	230	235
Gln Thr Leu Thr Asp Pro	Lys Gly Val Gln Pro Ile	Tyr Ala Pro Thr
245	250	255
Pro Val Val Arg Glu Ala	Val Leu Lys Ala Tyr Pro	Asp Ile Ala Glu
260	265	270
Trp Leu Lys Pro Val Phe	Glu Lys Leu Asp Ala Lys	Thr Leu Gln Gln
275	280	285
Leu Asn Ala Ser Ile Ala	Val Glu Gly Leu Asp Ala	Lys Lys Val Ala
290	295	300
Ala Asp Phe Leu Lys Gln	Gln Gly Leu Val Lys	
305	310	315

<210> 7292

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 7292

Arg Asp Lys Ala Val Pro	Ile Lys Cys His Asn Arg	Val Leu Leu Leu
1	5	10
Leu Ala Cys Val Ala Ile	Ala Ala Val Ala Leu Pro	Phe Val Asn Val
20	25	30
Ala Pro Asn Arg Leu Val	Ser Gly Glu Pro Arg Ala	Leu Trp Gln Ile
35	40	45
Trp Ala Phe Thr Pro Leu	Leu Leu Gly Ala Ala Leu	Ala Ser Thr Val
50	55	60
Ala Leu Ala Phe Trp Pro	Gly Arg Thr Ala Leu Trp	Leu Thr Phe Leu
65	70	75
Leu Ser Glu Ala Leu Phe	Ile Val Leu Phe Trp Ser	Ala Gly Gln Ala
85	90	95
Ala Thr Gln Met Ala Ala	Val Glu Ser Pro Leu Ala	Arg Thr Ser Val
100	105	110
Gly Ser Gly Leu Trp Leu	Trp Leu Ala Leu Cys Leu	Leu Val Cys Ser
115	120	125
Asp Ala Ile Arg Arg Leu	Thr Pro Gln Pro Val Trp	Arg Trp Leu Leu
130	135	140
Asn Ala Gln Phe Trp Val	Ile Pro Leu Leu Ile Leu	Phe Ser Gly Asp
145	150	155
Leu Asn Gln Leu Ser Leu	Lys Glu Tyr Val Asn Arg	Gln Glu Val
165	170	175
Phe Asp Asn Ala Leu Ala	Gln His Leu Thr Ile Leu	Phe Gly Thr Leu
180	185	190
Ile Pro Ala Leu Leu Leu	Gly Val Pro Leu Gly Met	Trp Cys Tyr Arg
195	200	205
His Thr Ser Arg Gln Gly	Ala Val Phe Thr Val Leu	Asn Val Ile Gln
210	215	220
Thr Ile Pro Ser Val Ala	Leu Phe Gly Leu Leu Ile	Ala Pro Leu Ala
225	230	235
Gly Leu Val Lys Ser Phe	Pro Ala Leu Ala Ala Ala	Gly Ile Ala Gly

245 250 255
 Thr Gly Leu Thr Pro Ala Leu Ile Ala Leu Val Leu Tyr Ala Leu Leu
 260 265 270
 Pro Leu Val Arg Gly Val Val Ala Gly Leu Ser Gln Val Pro Pro Asp
 275 280 285
 Val Leu Glu Ser Ala His Ala Met Gly Met Ser Ala Arg Gln Cys Phe
 290 295 300
 Trp Lys Ile Gln Leu Pro Leu Ala Leu Pro Leu Leu Val Arg Ser Leu
 305 310 315 320
 Arg Val Val Thr Val Gln Thr Val Gly Met Ala Val Ile Ala Ala Leu
 325 330 335
 Ile Gly Ala Gly Gly Phe Gly Ala Leu Val Phe Gln Gly Leu Leu Ser
 340 345 350
 Ser Ala Leu Asp Leu Val Leu Leu Gly Val Val Pro Thr Ile Ala Leu
 355 360 365
 Ala Val Val Leu Asp Ala Leu Phe Ala Leu Trp Leu Ala Leu Leu Arg
 370 375 380
 Arg Arg Ala Asn Asp
 385 390

<210> 7293

<211> 368

<212> PRT

<213> Enterobacter cloacae

<400> 7293

Ser Gly Arg Ala Ala Leu Glu His Trp Ser Ser Arg Gly Cys Ser Val
 1 5 10 15
 Ala Arg Trp Ile Trp Cys Cys Trp Ala Ser Cys Pro Gln Leu Arg Trp
 20 25 30
 Arg Ser Tyr Trp Met Pro Cys Leu Pro Cys Gly Ser Arg Cys Ser Gly
 35 40 45
 Glu Glu Pro Met Ile Glu Phe His Asp Val Ser Lys Thr Phe Ala Gly
 50 55 60
 Arg Pro Ala Ala Ser His Leu Asn Leu His Phe Ala Glu Gly Ala Phe
 65 70 75 80
 Ser Ile Leu Ile Gly Thr Ser Gly Ser Gly Lys Ser Thr Thr Leu Lys
 85 90 95
 Met Ile Asn Arg Leu Val Glu His Asp Ser Gly Thr Ile Arg Phe Ala
 100 105 110
 Gly Glu Glu Ile Arg Ser Leu Pro Val Leu Glu Leu Arg Arg Arg Met
 115 120 125
 Gly Tyr Ala Ile Gln Ser Ile Gly Leu Phe Pro His Trp Thr Val Ala
 130 135 140
 Gln Asn Ile Ala Thr Val Pro Gln Leu Glu Lys Trp Ser Arg Gly Lys
 145 150 155 160
 Ile Asn Glu Arg Val Asp Glu Leu Met Ala Leu Leu Gly Leu Asp Ala
 165 170 175
 Ser Leu Arg Asn Arg Tyr Pro His Gln Leu Ser Gly Gly Gln Gln Gln
 180 185 190
 Arg Val Gly Val Ala Arg Ala Leu Ala Ala Asn Pro Gln Val Leu Leu
 195 200 205
 Met Asp Glu Pro Phe Gly Ala Leu Asp Pro Val Thr Arg Gly Ala Leu
 210 215 220
 Gln Ala Glu Met Ser Arg Ile His Arg Ile Leu Gly Arg Thr Ile Val
 225 230 235 240
 Leu Val Thr His Asp Ile Asp Glu Ala Leu Arg Leu Ala Asp Arg Leu
 245 250 255
 Val Leu Met Asp His Gly Glu Val Val Gln Gln Gly Thr Pro Leu Glu
 260 265 270
 Leu Leu Thr Ser Pro Ala Asn Asp Phe Val Arg Glu Phe Phe Gly Arg

		275					280				285			
Ser	Glu	Leu	Gly	Val	Arg	Leu	Leu	Ser	Leu	Arg	Thr	Val	Arg	Tyr
	290					295					300			
Leu	Arg	Pro	Gln	Asp	Ala	Gln	Ile	Gly	Gly	Glu	Pro	Leu	His	Asp
305					310					315				320
Met	Ser	Leu	Arg	Asp	Ala	Leu	Ser	Ala	Phe	Val	Ala	Arg	Gln	Cys
				325					330					335
Val	Leu	Pro	Val	Ala	Asp	Gly	Gln	Gly	Thr	Pro	Cys	Gly	Thr	Ile
			340					345					350	His
Phe	Arg	Asp	Leu	Leu	Ala	Gly	Glu	Val	Thr	Arg	Glu	Val	Gly	Pro
		355					360					365		

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<210> 7294
<211> 257
<212> PRT
<213> Enterobacter cloacae
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Arg	Met	Leu	Arg	Val	Leu	Ile	Val	Asp	Asp	Glu	Pro	Leu	Ala	Arg	Gly
Asn	Leu	Arg	Val	Leu	Leu	Gln	Glu	Gln	Ser	Asp	Ile	Glu	Val	Val	Gly
Glu	Cys	Ala	Asn	Ala	Ile	Glu	Gly	Ile	Gly	Ala	Val	His	Lys	Leu	Arg
Pro	Asp	Val	Leu	Phe	Leu	Asp	Ile	Gln	Met	Pro	Arg	Ile	Ser	Gly	Leu
Glu	Met	Val	Gly	Met	Leu	Asp	Pro	Glu	His	Arg	Pro	Tyr	Ile	Val	Phe
Leu	Thr	Ala	Phe	Asp	Glu	Tyr	Ala	Val	Lys	Ala	Phe	Glu	Glu	His	Ala
Phe	Asp	Tyr	Leu	Leu	Lys	Pro	Ile	Glu	Glu	Lys	Arg	Leu	Glu	Lys	Thr
Leu	Thr	Arg	Leu	Arg	Gln	Glu	Arg	Thr	Ala	Gln	Asp	Val	Thr	Leu	Leu
Pro	Glu	His	Gln	Gln	Pro	Leu	Lys	Phe	Ile	Pro	Cys	Thr	Gly	His	Ser
Arg	Ile	Tyr	Leu	Leu	Gln	Met	Asp	Asp	Val	Ala	Phe	Val	Ser	Ser	Arg
Leu	Ser	Gly	Val	Tyr	Val	Thr	Ser	Ala	Glu	Gly	Asn	Glu	Gly	Phe	Thr
Glu	Leu	Thr	Leu	Arg	Thr	Leu	Glu	Ser	Arg	Thr	Pro	Leu	Ile	Arg	Cys
His	Arg	Gln	Tyr	Leu	Val	Asn	Met	Ala	His	Leu	Lys	Glu	Ile	Arg	Val
Glu	Asp	Asn	Gly	Gln	Ala	Glu	Leu	Val	Leu	Arg	Ala	Gly	Gln	Thr	Val
Pro	Val	Ser	Arg	Arg	Tyr	Leu	Lys	Ser	Leu	Lys	Glu	Ala	Ile	Gly	Leu

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<210> 7295
<211> 95
<212> PRT
<213> Enterobacter cloacae
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<400> 7295
Ile Arg Asn Thr Asn His Leu Val Tyr Arg Asp Asn Trp Asn Ile Gln
1 5 10 15

Leu Thr Lys Thr Gly Phe Thr Asn Ala Ala Gly His Cys Leu Val Met
 20 25 30
 Arg Thr Val Phe Asn Gly Lys Pro Val Ala Leu Val Val Met Asp Ala
 35 40 45
 Phe Gly Lys Tyr Thr His Phe Ala Asp Ala Ser Arg Leu Arg Thr Trp
 50 55 60
 Ile Glu Thr Gly Lys Val His Pro Val Pro Ala Ser Ala Leu Ala Tyr
 65 70 75 80
 Lys Lys His Lys Ala Glu Gln Met Ala Thr Ala Gln Asn Asp
 85 90 95

<210> 7296

<211> 797

<212> PRT

<213> Enterobacter cloacae

<400> 7296

Pro Cys Lys Val Phe Arg Leu Cys Gly Thr Leu Arg Phe Ser His Gly
 1 5 10 15
 Leu Ala Gly Cys Phe Pro Arg Leu Leu Met Arg Glu Asn Asn Met
 20 25 30
 Lys Trp Leu Cys Ser Val Gly Val Ala Val Ser Leu Ala Leu Gln Pro
 35 40 45
 Ala Leu Ala Glu Asp Leu Phe Gly Asn His Pro Leu Thr Pro Glu Ala
 50 55 60
 Arg Asp Ala Phe Val Thr Asp Leu Leu Lys Lys Met Thr Val Asp Glu
 65 70 75 80
 Lys Ile Gly Gln Leu Arg Leu Ile Ser Val Gly Pro Asp Asn Pro Lys
 85 90 95
 Glu Ala Ile Arg Glu Met Ile Lys Asp Gly Gln Val Gly Ala Ile Phe
 100 105 110
 Asn Thr Val Thr Arg Gln Asp Ile Arg Lys Met Gln Asp Gln Val Met
 115 120 125
 Glu Leu Ser Arg Leu Lys Ile Pro Leu Phe Phe Ala Tyr Asp Val Val
 130 135 140
 His Gly Gln Arg Thr Val Phe Pro Ile Ser Leu Gly Leu Ala Ser Ser
 145 150 155 160
 Phe Asn Leu Asp Ala Val Lys Thr Val Gly Arg Val Ser Ala Tyr Glu
 165 170 175
 Ala Ala Asp Asp Gly Leu Asn Met Thr Trp Ala Pro Met Val Asp Val
 180 185 190
 Ser Arg Asp Pro Arg Trp Gly Arg Ala Ser Glu Gly Phe Gly Glu Asp
 195 200 205
 Thr Tyr Leu Thr Ala Thr Met Gly Lys Thr Met Val Glu Ala Met Gln
 210 215 220
 Gly Lys Ser Pro Ala Asp Arg Tyr Ser Val Met Thr Ser Val Lys His
 225 230 235 240
 Phe Ala Ala Tyr Gly Ala Val Glu Gly Gly Lys Glu Tyr Asn Thr Val
 245 250 255
 Asp Met Ser Pro Gln Arg Leu Phe Asn Asp Tyr Met Pro Tyr Lys
 260 265 270
 Ala Gly Leu Asp Ala Gly Ser Gly Ala Val Met Val Ala Leu Asn Ser
 275 280 285
 Leu Asn Gly Thr Pro Ala Thr Ser Asp Ser Trp Leu Leu Lys Asp Val
 290 295 300
 Leu Arg Asp Gln Trp Gly Phe Lys Gly Ile Thr Val Ser Asp His Gly
 305 310 315 320
 Ala Ile Lys Glu Leu Ile Lys His Gly Thr Ala Ser Asp Pro Glu Asp
 325 330 335
 Ala Val Arg Val Ala Leu Lys Ser Gly Ile Asn Met Ser Met Ser Asp
 340 345 350

Glu Tyr Tyr Ser Lys Tyr Leu Pro Gly Leu Val Lys Ser Gly Lys Val
 355 360 365
 Thr Met Ala Glu Leu Asp Asp Ala Ala Arg His Val Leu Asn Val Lys
 370 375 380
 Tyr Asp Met Gly Leu Phe Asn Asp Pro Tyr Ser His Leu Gly Pro Lys
 385 390 395 400
 Asp Ser Asp Pro Ala Asp Thr Asn Ala Glu Ser Arg Leu His Arg Lys
 405 410 415
 Glu Ala Arg Glu Val Ala Arg Glu Ser Leu Val Leu Leu Lys Asn Arg
 420 425 430
 Leu Asp Thr Leu Pro Leu Lys Lys Ser Gly Thr Ile Ala Val Val Gly
 435 440 445
 Pro Leu Ala Asp Ser Lys Arg Asp Val Met Gly Ser Trp Ser Ala Ala
 450 455 460
 Gly Val Ala Asp Gln Ser Val Thr Val Leu Thr Gly Ile Lys Ser Ala
 465 470 475 480
 Val Gly Asp Asn Ala Lys Val Val Tyr Ala Lys Gly Ala Asn Val Thr
 485 490 495
 Asp Asp Lys Asp Ile Val Thr Phe Leu Asn Gln Tyr Glu Glu Ala Val
 500 505 510
 Lys Val Asp Ala Arg Thr Pro Lys Glu Met Leu Asp Glu Ala Val Asn
 515 520 525
 Ala Ala Lys Gln Ser Asp Val Val Val Ala Val Val Gly Glu Ala Gln
 530 535 540
 Gly Met Ala His Glu Ala Ser Ser Arg Thr Asp Ile Thr Ile Pro Gln
 545 550 555 560
 Ser Gln Arg Asp Leu Ile Ala Ala Leu Lys Ala Thr Gly Lys Pro Leu
 565 570 575
 Val Leu Val Leu Met Asn Gly Arg Pro Leu Ala Leu Val Lys Glu Asp
 580 585 590
 Gln Gln Ala Asp Ala Ile Leu Glu Thr Trp Phe Ala Gly Thr Glu Gly
 595 600 605
 Gly Asn Ala Ile Ala Asp Val Leu Phe Gly Asp Tyr Asn Pro Ser Gly
 610 615 620
 Lys Leu Pro Met Ser Phe Pro Arg Ser Val Gly Gln Ile Pro Val Tyr
 625 630 635 640
 Tyr Ser His Leu Asn Thr Gly Arg Pro Tyr Asn Ala Asp Lys Pro Asn
 645 650 655
 Lys Tyr Thr Ser Arg Tyr Phe Asp Glu Ala Asn Gly Pro Leu Tyr Pro
 660 665 670
 Phe Gly Tyr Gly Leu Ser Tyr Thr Thr Phe Lys Val Ser Asp Val Lys
 675 680 685
 Met Ser Ala Pro Thr Leu Lys Arg Asp Gly Lys Val Thr Ala Ser Val
 690 695 700
 Glu Val Thr Asn Ser Gly Lys Arg Glu Gly Ala Thr Val Ile Gln Met
 705 710 715 720
 Tyr Val Gln Asp Val Thr Ala Ser Met Ser Arg Pro Val Lys Gln Leu
 725 730 735
 Arg Gly Phe Glu Lys Val Asn Leu Lys Pro Gly Glu Thr Arg Thr Val
 740 745 750
 Ser Phe Pro Ile Asp Val Asn Ala Leu Lys Phe Trp Asn Gln Gln Met
 755 760 765
 Lys Tyr Asp Ala Glu Pro Gly Lys Phe Asn Val Phe Ile Gly Val Asp
 770 775 780
 Ser Ala Arg Val Asn Lys Ala Glu Phe Glu Leu Gln
 785 790 795

<210> 7297

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 7297

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Arg Val Lys Trp Val Arg Asp Pro Leu Leu Trp Leu Thr Gly Leu Phe
1      5      10      15
Ile Ala Leu Leu Tyr Leu Met Pro His Ser Ala Ala Leu Phe Asn Ala
20      25      30
Leu Ile Pro Gly Leu Pro Arg Pro Val Tyr Gln Gln Glu Ser Phe Val
35      40      45
Asn Leu Thr Leu Ala His Phe Trp Leu Val Ala Val Ser Ser Val Ile
50      55      60
Ala Ile Val Leu Gly Thr Gly Ala Gly Ile Ala Val Thr Arg Pro Ala
65      70      75      80
Gly Arg Glu Phe Arg Pro Leu Val Glu Thr Ile Ala Ala Thr Gly Gln
85      90      95
Thr Phe Pro Pro Val Ala Val Leu Ala Ile Ala Val Pro Ala Ile Gly
100      105      110
Phe Gly Gln Glu Pro Ala Ile Ile Ala Leu Ile Leu Tyr Gly Val Leu
115      120      125
Pro Ile Leu Gln Gly Thr Leu Ala Gly Ile Ala Ala Val Pro Ala Ser
130      135      140
Ala Leu Ser Val Ala Glu Gly Met Gly Met Ser Ala Trp Gln Arg Leu
145      150      155      160
Val Lys Val Glu Leu Pro Leu Ala Ala Pro Val Ile Ile Ala Gly Val
165      170      175
Arg Thr Ser Val Ile Ile Asn Ile Gly Thr Ala Thr Ile Ala Ser Thr
180      185      190
Val Gly Ala Asn Thr Leu Gly Thr Pro Ile Ile Ile Gly Leu Ser Gly
195      200      205
Phe Asn Thr Ala Tyr Ile Ile Gln Gly Ala Ile Leu Val Ala Leu Ala
210      215      220
Ala Ile Val Val Asp Arg Leu Phe Glu Arg Leu Ala Gly Tyr Leu Ser
225      230      235      240
Gln His Arg Arg Glu Gln
245

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<210> 7298

<211> 568

<212> PRT

<213> Enterobacter cloacae

<400> 7298

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Asn Val Arg Phe Val Ser Met Tyr Glu Phe Asn Leu Val Leu Leu Leu
1      5      10      15
Leu Gln Gln Met Cys Val Phe Leu Val Ile Ala Trp Leu Met Ser Lys
20      25      30
Thr Arg Leu Phe Ile Pro Leu Met Gln Val Thr Val Arg Leu Pro His
35      40      45
Lys Phe Leu Cys Tyr Val Val Phe Ser Ile Phe Cys Ile Met Gly Thr
50      55      60
Trp Phe Gly Leu His Ile Glu Asp Ser Ile Ala Asn Thr Arg Ala Ile
65      70      75      80
Gly Ala Val Met Gly Gly Leu Leu Gly Gly Pro Val Val Gly Gly Leu
85      90      95
Val Gly Leu Thr Gly Gly Leu His Arg Tyr Ser Met Gly Gly Met Thr
100      105      110
Ala Leu Ser Cys Met Ile Ser Thr Ile Val Glu Gly Leu Leu Gly Gly
115      120      125
Leu Val His Ser Tyr Met Ile Lys Arg Gly Arg Pro Asp Lys Val Phe
130      135      140
Ser Pro Phe Thr Ala Gly Ala Ile Thr Phe Val Ala Glu Met Ala Gln
145      150      155      160

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Met Ala Ile Ile Leu Leu Ile Ala Arg Pro Phe Asp Asp Ala Leu His
165 170
Leu Val Ser Ser Ile Ala Ala Pro Met Met Val Thr Asn Thr Val Gly
180 185 190
Ala Ala Leu Phe Met Arg Ile Leu Leu Asp Lys Arg Ala Met Phe Glu
195 200 205
Lys Tyr Thr Ser Ala Phe Ser Ala Thr Ala Leu Lys Val Ala Ala Ser
210 215 220
Thr Glu Gly Ile Leu Arg Gln Gly Phe Asn Glu Glu Asn Ser Met Lys
225 230 235 240
Val Ala Gln Val Leu Tyr Lys Glu Leu Asp Ile Gly Ala Val Ala Ile
245 250 255
Thr Asp Arg Glu Lys Leu Leu Ala Phe Thr Gly Thr Gly Asp Asp His
260 265 270
His Leu Pro Gly Lys Pro Ile Ser Ser Ala Tyr Thr Leu Arg Ala Ile
275 280 285
Glu Thr Gly Glu Val Val Tyr Ala Asp Gly Asn Glu Val Pro Tyr Arg
290 295 300
Cys Ser Leu His Pro Gln Cys Lys Leu Gly Ser Thr Leu Val Ile Pro
305 310 315 320
Leu Arg Gly Glu Asn Gln Arg Val Met Gly Thr Ile Lys Leu Tyr Glu
325 330 335
Ala Lys Asn Arg Leu Phe Ser Ser Ile Asn Arg Thr Leu Gly Glu Gly
340 345 350
Ile Ala Gln Leu Leu Ser Ala Gln Ile Leu Ala Gly Gln Tyr Glu Arg
355 360 365
Gln Lys Ala Leu Leu Thr Gln Ser Glu Ile Lys Leu Leu His Ala Gln
370 375 380
Val Asn Pro His Phe Leu Phe Asn Ala Leu Asn Thr Leu Lys Ala Val
385 390 395 400
Ile Arg Arg Asp Ser Asp Gln Ala Ala Gln Leu Val Gln Phe Leu Ser
405 410 415
Thr Phe Phe Arg Lys Asn Leu Lys Arg Pro Ser Glu Ile Val Thr Leu
420 425 430
Ala Asp Glu Ile Glu His Val Asn Ala Tyr Leu Gln Ile Glu Lys Ala
435 440 445
Arg Phe Gln Ser Arg Leu Gln Val Ser Leu Ser Val Pro Asp Glu Leu
450 455 460
Ala Tyr Gln His Leu Pro Ala Phe Thr Leu Gln Pro Ile Val Glu Asn
465 470 475 480
Ala Ile Lys His Gly Thr Ser Gln Leu Leu Gly Thr Gly Glu Ile Met
485 490 495
Ile Ser Ala Ser Arg Phe Asn His His Leu Val Leu Asp Ile Glu Asp
500 505 510
Asn Ala Gly Leu Tyr Glu Ala Ser Ala Ser Gly Gly Leu Gly Met Ser
515 520 525
Leu Val Asp Lys Arg Leu Arg Ala His Phe Gly Asp Asp Cys Gly Ile
530 535 540
Thr Val Ala Cys Glu Pro Asp Arg Tyr Thr Arg Ile Thr Leu Arg Leu
545 550 555 560
Pro Leu Glu Glu Asn Ala Cys
565

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<210> 7299

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7299

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Gly Cys Lys Thr Asp Thr Leu Arg Ala Ile Ala Ser Ser Thr Phe Glu
1 5 10 15

```

Gly Ser Met Leu Ser Asn Asp Ile Leu Arg Ser Leu Arg Tyr Thr Leu
 20 25 30
 Lys Ala Asn Asn Asn Asp Met Val Arg Ile Leu Ala Leu Ser Asp Met
 35 40 45
 Glu Ser Thr Ser Ala Gly Phe Asp Thr Trp Met Thr Lys Glu Asp Glu
 50 55 60
 Glu Gly Phe Val Arg Gys Pro Asp Ile Ile Leu Ser Gly Phe Leu Asn
 65 70 75 80
 Gly Leu Ile Tyr Asp Lys Arg Gly Lys Asp Glu Ser Ala Pro Glu Leu
 85 90 95
 Ala Leu Glu Arg Arg Val Asn Asn Asn Thr Val Leu Lys Lys Leu Arg
 100 105 110
 Ile Ala Phe Gys Leu Lys Thr Asp Asp Ile Leu Ala Ile Met Thr Glu
 115 120 125
 Gln Lys Phe Arg Val Ser Met Pro Glu Ile Thr Ala Met Met Arg Ala
 130 135 140
 Pro Asp His Lys Asn Tyr Arg Glu Cys Gly Asp Gln Phe Leu Arg Tyr
 145 150 155 160
 Phe Leu Arg Gly Leu Thr Gln Arg Val His Asn Gln Lys Gly 175
 165 170

<210> 7300

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 7300

Ala Phe Ser Gln Arg Gly Cys Cys Gln Pro Arg Gly Glu Asp Val Tyr
 1 5 10 15
 Phe His Ser Leu Phe Trp Pro Ala Met Leu Glu Gly Ser Asn Phe Arg
 20 25 30
 Lys Pro Thr Asn Leu Phe Val His Gly Tyr Val Thr Val Asn Gly Ala
 35 40 45
 Lys Met Ser Lys Ser Arg Gly Thr Phe Ile Lys Ala Ser Thr Trp Leu
 50 55 60
 Asn His Phe Asp Ala Asp Ser Leu Arg Tyr Tyr Tyr Thr Ala Lys Leu
 65 70 75 80
 Ser Ser Arg Ile Asp Asp Ile Asp Leu Asn Leu Glu Asp Phe Val Gln
 85 90 95
 Arg Val Asn Ala Asp Ile Val Asn Lys Val Val Asn Leu Ala Ser Arg
 100 105 110
 Asn Ala Gly Phe Ile Ala Lys Arg Phe Asp Gly Val Leu Ser Ala Glu
 115 120 125
 Leu Ala Asp Pro Glu Leu Tyr Lys Thr Phe Thr Asp Ala Ala Ala Ala
 130 135 140
 Val Gly Glu Ala Trp Glu Ser Arg Glu Phe Gly Lys Ala Ile Arg Glu
 145 150 155 160
 Ile Met Ala Leu Ala Asp Val Ala Asn Arg Tyr Val Asp Glu Gln Ala
 165 170 175
 Pro Trp Val Val Ala Lys Gln Glu Gly Arg Asp Ala Asp Leu Gln Ala
 180 185 190
 Ile Gys Thr Met Gly Leu Asn Met Phe Arg Val Leu Met Thr Trp Leu
 195 200 205
 Lys Pro Val Leu Pro Gln Leu Ala Ala Arg Ala Glu Ala Phe Leu Asn
 210 215 220
 Thr Glu Leu Thr Trp Asp Ala Ile Gln Gln Pro Leu Leu Gly His Lys
 225 230 235 240
 Val Asn Thr Phe Lys Ala Leu Tyr Asn Arg Ile Glu Met Lys Gln Val
 245 250 255
 Glu Ala Leu Val Glu Ala Ser Lys Glu Glu Val Lys Ala Ala Ala Ala
 260 265 270

Pro Val Thr Gly Pro Leu Ala Asp Asp Pro Ile Gln Glu Thr Ile Thr
 275 280 285
 Phe Asp Asp Phe Ala Lys Val Asp Leu Arg Val Ala Leu Ile Glu Asn
 290 295 300
 Ala Glu Phe Val Glu Gly Ser Asp Lys Leu Leu Arg Leu Thr Leu Asp
 305 310 315 320
 Leu Gly Gly Glu Lys Arg Asn Val Phe Ser Gly Ile Arg Ser Ala Tyr
 325 330 335
 Pro Asp Pro Gln Val Leu Ile Gly Arg Gln Thr Val Met Val Ala Asn
 340 345 350
 Leu Ala Pro Arg Lys Met Arg Phe Gly Ile Ser Glu Gly Met Val Met
 355 360 365
 Ala Ala Gly Pro Gly Gly Lys Asp Ile Phe Leu Leu Ser Pro Asp Glu
 370 375 380
 Gly Ala Lys Pro Gly Gln Gln Val Lys
 385 390

<210> 7301

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 7301

Phe Val Gln Lys Arg Ile Lys Ser Ser Trp Phe Arg Lys Val Gly Leu
 1 5 10 15
 Gln Leu Ser Trp Gly Arg Ala Ser Leu Gly Ala Lys Met Ala Leu Tyr
 20 25 30
 Thr Ile Gly Glu Val Ala Leu Leu Cys Asp Ile Asn Pro Val Thr Leu
 35 40 45
 Arg Ala Trp Gln Arg Arg Tyr Gly Leu Leu Lys Pro Gln Arg Thr Asp
 50 55 60
 Gly Gly His Arg Leu Phe Asn Asp Ala Asp Ile Asp Arg Ile Arg Glu
 65 70 75 80
 Ile Lys Ser Trp Ile Asp Asn Gly Val Gln Val Gly Lys Val Lys Ser
 85 90 95
 Leu Leu Ser Gln Tyr Asp Pro Asp Thr Gln His Leu Trp Arg Glu Gln
 100 105 110
 Gln Glu Thr Leu Leu Arg Leu Leu Gln Ser Gly Asn Leu Gln Arg Leu
 115 120 125
 Arg Gly Trp Ile Lys Glu Gln Gly Arg Asp Tyr Pro Ala Gln Thr Leu
 130 135 140
 Ile Thr His Leu Phe Ile Pro Leu Arg Arg Arg Leu Gln Cys Gln Gln
 145 150 155 160
 Thr Thr Leu Gln Ala Leu Leu Ser Met Leu Asp Gly Val Leu Ile Asn
 165 170 175
 Tyr Ile Ser Val Cys Leu Ala Ser Ala Arg Asn Lys Asn Ser Lys Asp
 180 185 190
 Ala Leu Val Ile Gly Trp Asn Val His Asp Thr Thr Arg Leu Trp Leu
 195 200 205
 Glu Ala Trp Ile Ala Thr Gln Gln Gly Trp Arg Val Asp Val Leu Ala
 210 215 220
 His Ser Leu Ala Gln Leu Arg Pro Glu Leu Phe Glu Gly Gln Thr Leu
 225 230 235 240
 Leu Val Trp Cys Gly Glu Val Pro Ser Ala Ser Gln Gln Gln Leu Leu
 245 250 255
 Thr Glu Trp Arg Glu His Gly Tyr Pro Val Tyr Ser Leu Gly Pro Asn
 260 265 270
 Ala Ser
 275

<210> 7302

<211> 641

<212> PRT

<213> *Enterobacter cloacae*

<400> 7302

Pro Arg Glu Ala Pro Gly Gln Thr Val Arg Lys Ala Gln Cys Ala Thr
 1 5 10 15
 Lys Pro Glu Asn Leu Ala Gly Leu Phe Ser Asp Phe Ser His Glu Tyr
 20 25 30
 Pro Thr Ala Gln Arg Leu Ile Ala Leu Cys Phe Thr Ala Arg Asn Leu
 35 40 45
 Pro His His Lys Glu Trp Lys Met Ser Ser Val Arg Thr Asp Asp Asn
 50 55 60
 Thr Thr Phe Ile Asn Glu Leu Ser Arg Leu Val Gly His Ser His Leu
 65 70 75 80
 Leu Thr Asp Pro Ala Lys Thr Ala Arg Tyr Arg Lys Gly Phe Arg Ser
 85 90 95
 Gly Gln Gly Glu Ala Leu Ala Val Val Phe Pro Gly Thr Leu Leu Glu
 100 105 110
 Leu Trp Arg Val Leu Ser Ala Cys Val Ala Ala Asp Lys Ile Ile Leu
 115 120 125
 Met Gln Ala Ala Asn Thr Gly Leu Thr Glu Gly Ser Thr Pro Asn Gly
 130 135 140
 Asn Asp Tyr Asp Arg Asp Ile Val Ile Ile Ser Thr Leu Arg Leu Asp
 145 150 155 160
 Lys Leu His Leu Leu Asp Lys Gly Glu Gln Val Leu Ala Phe Pro Gly
 165 170 175
 Thr Thr Leu Tyr Ser Leu Glu Lys Ala Leu Lys Pro Leu Gly Arg Glu
 180 185 190
 Pro His Ser Val Ile Gly Ser Ser Cys Ile Gly Ala Ser Val Ile Gly
 195 200 205
 Gly Ile Cys Asn Asn Ser Gly Gly Ser Leu Val Gln Arg Gly Pro Ala
 210 215 220
 Tyr Thr Glu Met Ser Leu Phe Ala Arg Ile Asp Glu Asn Gly Lys Leu
 225 230 235 240
 Thr Leu Val Asn His Leu Gly Ile Asp Leu Gly Val Thr Pro Glu Gln
 245 250 255
 Ile Leu Ser Lys Leu Asp Asp Asp Arg Val Lys Asp Glu Asp Val Gln
 260 265 270
 His Asp Gly Arg His Ala His Asp His Asp Tyr Ile Thr Arg Val Arg
 275 280 285
 Asp Ile Asn Ala Asp Thr Pro Ala Arg Tyr Asn Ala Asp Pro Asp Arg
 290 295 300
 Leu Phe Glu Ser Ser Gly Cys Ala Gly Lys Leu Ala Val Phe Ala Val
 305 310 315 320
 Arg Leu Asp Thr Phe Pro Ala Glu Lys Lys Gln Gln Val Phe Tyr Ile
 325 330 335
 Gly Thr Asn Gln Pro Glu Val Leu Thr Glu Ile Arg Arg His Ile Leu
 340 345 350
 Ala Glu Phe Thr His Leu Pro Val Ala Gly Glu Tyr Met His Arg Asp
 355 360 365
 Ile Tyr Asp Ile Ala Glu Arg Tyr Gly Lys Asp Thr Phe Leu Met Ile
 370 375 380
 Asp Lys Leu Gly Thr Asp Lys Met Pro Phe Phe Phe Thr Met Lys Gly
 385 390 395 400
 Arg Thr Asp Ala Met Leu Glu Lys Val Ser Leu Phe Lys Pro His Phe
 405 410 415
 Thr Asp Arg Phe Met Gln Lys Leu Gly Asn Val Phe Pro Ala His Leu
 420 425 430
 Pro Glu Arg Met Lys Thr Trp Arg Asp Lys Tyr Glu His His Leu Leu
 435 440 445

Leu Lys Met Ala Gly Asp Gly Ile Asp Glu Ala Gln Ser Trp Leu Thr
 450 455 460
 Glu Phe Phe Lys Thr Ala Asp Gly Asp Phe Phe Ala Cys Thr Pro Glu
 465 470 475 480
 Glu Gly Ser Lys Ala Phe Leu His Arg Phe Ala Ala Gly Ala Ala
 485 490 495
 Ile Arg Tyr Gln Ala Val His Ser Glu Glu Val Glu Asp Ile Leu Ala
 500 505 510
 Leu Asp Ile Ala Leu Arg Arg Asn Asp Thr Glu Trp Phe Glu His Leu
 515 520 525
 Pro Pro Glu Ile Asp Ser Lys Leu Val His Lys Leu Tyr Tyr Gly His
 530 535 540
 Phe Met Cys Tyr Val Phe His Gln Asp Tyr Ile Val Lys Lys Gly Val
 545 550 555 560
 Asp Ala His Ala Leu Lys Glu Gln Met Leu Ala Leu Leu His Glu Arg
 565 570 575
 Gly Ala Gln Tyr Pro Ala Glu His Asn Val Gly His Leu Tyr Lys Ala
 580 585 590
 Pro Glu Thr Leu Lys Gln Phe Tyr Arg Lys Asn Asp Pro Thr Asn Ser
 595 600 605
 Met Asn Pro Gly Ile Gly Lys Thr Thr Arg Lys Lys Tyr Trp Lys Glu
 610 615 620
 Ser Ala Glu Ser Glu Gln His Asn Thr Gln Ala Ser Asp Glu Leu Ile
 625 630 635 640

<210> 7303

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 7303

Ala Leu Leu Lys Arg Thr Arg Val Ser Ala Cys Cys Gln Arg Asn Val
 1 5 10 15
 Ser Leu Ala Phe Gln Thr Arg Ser Gly Gln Asn Met Ser Ala Val Glu
 20 25 30
 Thr Phe Pro Glu Thr Glu Ile Glu Val Arg Asp Ala Leu Pro Asp Asp
 35 40 45
 Ala His Ala Ile Ser Ala Ile Tyr Ala Trp His Val Leu His Gly Arg
 50 55 60
 Ala Ser Phe Glu Glu Val Pro Pro Thr Val Asp Glu Met Arg Gln Arg
 65 70 75 80
 Met Lys Ser Val Thr Asp Ser Gly Leu Pro Trp Leu Val Ala Leu Tyr
 85 90 95
 Arg Gly Ile Val Val Gly Tyr Cys Tyr Ala Thr Phe Tyr Arg Pro Arg
 100 105 110
 Gln Ala Tyr Arg Tyr Thr Leu Glu Glu Ser Ile Tyr Val Asp Ala Ser
 115 120 125
 Thr Thr Gly Arg Gly Phe Gly Ser Ala Leu Leu Gln Ala Leu Ile Ala
 130 135 140
 Arg Cys Glu Gln Gly Pro Trp Arg Gln Met Ile Ala Val Val Gly Asp
 145 150 155 160
 Gly Gln Asn Asn Pro Gly Ser Leu Arg Leu His Lys Lys His Gly Phe
 165 170 175
 Glu Ile Val Gly Gln Leu Arg Ser Val Gly Tyr Lys Lys Gly Asp Trp
 180 185 190
 Arg Asp Thr Val Met Met Gln Arg Pro Leu Asn Asp Gly Asp Trp Thr
 195 200 205
 Leu Pro Glu
 210

<210> 7304
 <211> 300
 <212> PRT
 <213> Enterobacter cloacae

<400> 7304

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Asn Asp Val Glu Ser Ala Asp Gly Asp Ile His Arg Cys Asn Ile Arg
1      5      10      15
Arg Thr Ile Arg Ser Leu Val Thr Gly Asp Arg Val Val Trp Arg Pro
      20      25      30
Gly Lys Glu Ala Ala Glu Gly Val Thr Val Lys Gly Ile Val Glu Ala
      35      40      45
Val His Glu Arg Thr Ser Val Leu Thr Arg Pro Asp Phe Tyr Asp Gly
      50      55      60
Val Lys Pro Ile Ala Ala Asn Ile Asn Gln Ile Val Ile Val Ser Ala
      65      70      75      80
Ile Leu Pro Glu Leu Ser Leu Asn Ile Ile Asp Arg Tyr Leu Val Ala
      85      90      95
Cys Glu Thr Leu Gln Val Glu Pro Leu Ile Val Leu Asn Lys Ile Asp
      100      105      110
Leu Leu Asp Asp Glu Ala Met Ala Phe Val Asn Glu Gln Met Asp Ile
      115      120      125
Tyr Arg Asn Ile Gly Tyr Arg Val Leu Met Val Ser Ser Arg Thr Lys
      130      135      140
Asp Gly Leu Lys Pro Leu Glu Asp Ala Leu Thr Asn Arg Ile Ser Ile
      145      150      155      160
Phe Ala Gly Gln Ser Ser Gly Val Gly Lys Ser Ser Leu Leu Asn Asn Leu
      165      170      175
Leu Gly Leu Gln Gln Glu Ile Leu Thr Asn Asp Val Ser Asp Val Ser
      180      185      190
Gly Leu Gly Gln His Thr Thr Thr Ala Ser Arg Leu Tyr His Phe Pro
      195      200      205
His Gly Gly Asp Val Ile Asp Ser Pro Gly Val Arg Glu Phe Gly Leu
      210      215      220
Trp His Leu Glu Pro Glu Gln Ile Phe Asn Gly Phe Val Glu Phe His
      225      230      235
Asp Tyr Leu Gly Ala Cys Lys Tyr Arg Asp Cys Lys His Asp Asn Asp
      245      250      255
Pro Gly Cys Ala Ile Arg Glu Ala Val Glu Asn Gly Glu Ile Ala Glu
      260      265      270
Thr Arg Phe Glu Asn Tyr His Arg Ile Leu Glu Ser Met Asp Gln Val
      275      280      285
Lys Thr Arg Lys Asn Phe Ser Asp Ser Asp Asn
      290      295      300

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<210> 7305
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 7305

```

Asn His Ala Lys Glu Cys Met Met Thr Thr Lys Arg Lys Ala Tyr Val
1      5      10      15
Arg Pro Met Pro Ser Thr Trp Trp Lys Lys Leu Pro Phe Tyr Arg Phe
      20      25      30
Tyr Met Leu Arg Glu Gly Thr Ala Phe Pro Ala Val Trp Phe Ser Leu
      35      40      45
Glu Leu Met Tyr Gly Val Tyr Ala Leu Lys His Gly Pro Glu Ala Trp
      50      55      60
Ala Ser Phe Val Gly Phe Leu Gln Asn Pro Ile Ile Val Val Leu Asn

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<210> 7306
<211> 418
<212> PRT
<213> Enterobacter cloacae
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400> 7306	Gln	Leu	Met	Leu	Asn	Leu	Thr	Val	Cys	Gln	Ala	Gln	Ser	Asn	Pro	Thr
1	Asp	Tyr	Ala	Cys	Leu	Met	Gly	Pro	Asp	Thr	Pro	Leu	Thr	Arg	Tyr	Tyr
	Gly	Arg	Leu	Leu	Met	Met	Lys	Lys	Ser	Leu	Cys	Cys	Ala	Leu	Leu	Leu
	Gly	Leu	Ser	Cys	Ser	Ala	Leu	Ala	Ala	Pro	Val	Ser	Ser	Glu	Lys	Gln
	Ala	Glu	Val	Val	Ala	Asn	Thr	Val	Thr	Pro	Leu	Met	Lys	Ala	Gln	Ser
65	Val	Pro	Gly	Met	Ala	Val	Ala	Val	Ile	Tyr	Gln	Gly	Lys	Ser	His	Tyr
	Tyr	Thr	Phe	Gly	Lys	Ala	Asp	Ile	Ala	Ala	Asn	Lys	Pro	Val	Thr	Pro
	Gln	Thr	Leu	Phe	Glu	Leu	Gly	Ser	Ile	Ser	Lys	Thr	Phe	Thr	Gly	Val
	Leu	Gly	Gly	Asp	Ala	Ile	Ala	Arg	Gly	Glu	Ile	Ser	Leu	Asp	Asp	Pro
	Val	Thr	Arg	Tyr	Trp	Pro	Gln	Leu	Thr	Gly	Lys	Gln	Trp	Gln	Gly	Ile
145	Arg	Met	Leu	Asp	Leu	Ala	Thr	Tyr	Thr	Ala	Gly	Gly	Leu	Pro	Leu	Gln
	Val	Pro	Asp	Glu	Val	Thr	Asp	Asn	Ala	Ser	Gly	Leu	Arg	Phe	Tyr	Gln
	Asn	Trp	Gln	Pro	Gln	Trp	Lys	Pro	Gly	Thr	Thr	Arg	Leu	Tyr	Ala	Asn
	Ala	Ser	Ile	Gly	Leu	Phe	Gly	Ala	Leu	Ala	Val	Lys	Pro	Ser	Gly	Met
	Pro	Tyr	Glu	Gln	Ala	Met	Thr	Thr	Arg	Val	Leu	Lys	Pro	Leu	Lys	Leu
225	Asp	His	Thr	Trp	Ile	Asn	Val	Pro	Lys	Ala	Glu	Glu	Ala	His	Tyr	Ala
	Trp	Gly	Tyr	Arg	Asp	Gly	Lys	Ala	Val	Arg	Val	Ser	Pro	Gly	Met	Leu
	Asp	Ala	Gln	Ala	Tyr	Gly	Val	Lys	Thr	Asn	Val	Gln	Asp	Met	Ala	Asn
	Trp	Val	Met	Ala	Asn	Met	Ala	Pro	Glu	Lys	Val	Ala	Asp	Ala	Ser	Leu
	Lys	Gln	Gly	Ile	Ala	Leu	Ala	Gln	Ser	Arg	Tyr	Trp	Arg	Ile	Gly	Ser
305	Met	Tyr	Gln	Gly	Leu	Gly	Trp	Glu	Met	Leu	Asn	Trp	Pro	Val	Glu	Ala
	Asn	Thr	Val	Val	Glu	Gly	Ser	Asp	Ser	Lys	Val	Ala	Leu	Ala	Pro	Leu
	Pro	Ala	Ala	Glu	Val	Asn	Pro	Pro	Ala	Pro	Pro	Val	Lys	Ala	Ser	Trp

355	360	365
Val His Lys Thr Gly Ser Thr Gly Gly Phe Gly Ser Tyr Val Ala Phe		
370	375	380
Ile Pro Glu Lys Gln Ile Gly Ile Val Met Leu Ala Asn Lys Ser Tyr		
385	390	395
Pro Asn Pro Ala Arg Val Glu Ala Ala Tyr His Ile Leu Glu Ala Leu		
405	410	415
Gln		

<210> 7307

<211> 348

<212> PRT

<213> Enterobacter cloacae

<400> 7307

Asn Arg Pro Leu Phe Ser Gly Ser Gly Ser Val Met Pro Asp Gln Glu		
1	5	10
Arg Gln Asn Asn Gly Leu Glu Ala Thr Leu Leu Asn Ser Phe Lys Leu		
20	25	30
Ser Leu Gln Tyr Ile Leu Pro Lys Leu Trp Leu Thr Arg Leu Ala Gly		
35	40	45
Trp Gly Ala Ser Lys Arg Ala Gly Trp Leu Thr Lys Leu Val Ile Asp		
50	55	60
Leu Phe Val Lys Tyr Tyr Lys Val Asp Met Lys Glu Ala Gln Lys Pro		
65	70	75
Asp Thr Ala Ser Tyr Arg Thr Phe Asn Glu Phe Phe Val Arg Pro Leu		
85	90	95
Arg Asp Glu Val Arg Pro Leu Asn Thr Asp Pro Asn Val Leu Val Met		
100	105	110
Pro Ala Asp Gly Val Ile Ser Gln Leu Gly Lys Ile Glu Asn Asp Lys		
115	120	125
Ile Leu Gln Ala Lys Gly His Asn Tyr Ser Leu Glu Ala Leu Leu Ala		
130	135	140
Gly Asn Tyr Ile Met Ala Asp Leu Phe Arg Asn Gly Thr Phe Ala Thr		
145	150	155
Thr Tyr Leu Ser Pro Arg Asp Tyr His Arg Val His Met Pro Cys Asn		
165	170	175
Gly Ile Leu Arg Glu Met Ile Tyr Val Pro Gly Asp Leu Phe Ser Val		
180	185	190
Asn His Leu Thr Ala Gln Asn Val Pro Asn Leu Phe Ala Arg Asn Glu		
195	200	205
Arg Val Ile Cys Leu Phe Asp Thr Glu Phe Gly Pro Met Ala Gln Ile		
210	215	220
Leu Val Gly Ala Thr Ile Val Gly Ser Ile Glu Thr Val Trp Ala Gly		
225	230	235
Thr Ile Thr Pro Pro Arg Glu Gly Val Ile Lys Arg Trp Thr Trp Pro		
245	250	255
Ala Gly Glu Glu Gly Ser Val Ala Leu Lys Gly Gln Glu Met		
260	265	270
Gly Arg Phe Lys Leu Gly Ser Thr Val Ile Asn Leu Phe Ala Pro Gly		
275	280	285
Lys Val Asn Leu Val Asp Glu Leu Glu Ser Leu Ser Val Thr Lys Leu		
290	295	300
Gly Gln Pro Leu Ala Val Ser Thr Glu Val Phe Ala Thr Pro Asp Val		
305	310	315
Ala Pro Ala Pro Leu Pro Glu Asp Glu Ile Lys Ala Glu His Asp Ala		
325	330	335
Ser Pro Leu Val Asp Asp Lys Lys Asp Glu Gly		
340	345	

<210> 7308
 <211> 614
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 7308

```

Thr Ser Phe Ser Ser Ser Arg Cys Gly Lys Thr Lys Ile Trp Arg Asn
1      5      10      15
Val Val Gln Thr Phe Gln Ala Asp Leu Ala Val Ile Gly Ala Gly Gly
20      25      30
Ala Gly Leu Arg Ala Ala Ile Ala Ala Gln Ala Asn Pro Asn Ala
35      40      45
Lys Ile Ala Leu Ile Ser Lys Val Tyr Pro Met Arg Ser His Thr Val
50      55      60
Ala Ala Glu Gly Gly Ser Ala Ala Val Ala Gln Asp His Asp Ser Phe
65      70      75      80
Glu Tyr His Phe His Asp Thr Val Ala Gly Gly Asp Trp Leu Cys Glu
85      90      95
Gln Asp Val Val Asp Tyr Phe Val His His Cys Pro Thr Glu Met Thr
100     105     110
Gln Leu Glu Gln Trp Gly Cys Pro Trp Ser Arg Arg Pro Asp Gly Ser
115     120     125
Val Asn Val Arg Arg Phe Gly Gly Met Lys Ile Glu Arg Thr Trp Phe
130     135     140
Ala Ala Asp Lys Thr Gly Phe His Met Leu His Thr Leu Phe Gln Thr
145     150     155     160
Ser Leu Gln Phe Pro Gln Ile Gln Arg Phe Asp Glu His Phe Val Leu
165     170     175
Asp Ile Leu Val Asp Asp Gly His Ala Arg Gly Leu Val Ala Met Asn
180     185     190
Met Met Glu Gly Thr Leu Val Gln Ile Arg Ala Asn Ala Val Val Met
195     200     205
Ala Thr Gly Gly Ala Gly Arg Val Tyr Arg Tyr Asn Thr Asn Gly Gly
210     215     220
Ile Val Thr Gly Asp Gly Met Gly Met Ala Leu Ser His Gly Val Pro
225     230     235     240
Leu Arg Asp Met Glu Phe Val Gln Tyr His Pro Thr Gly Leu Pro Gly
245     250     255
Ser Gly Ile Leu Met Thr Glu Gly Cys Arg Gly Glu Gly Gly Ile Leu
260     265     270
Val Asn Lys Asn Gly Tyr Arg Tyr Leu Gln Asp Tyr Gly Met Gly Pro
275     280     285
Glu Thr Pro Leu Gly Glu Pro Lys Asn Lys Tyr Met Glu Leu Gly Pro
290     295     300
Arg Asp Lys Val Ser Gln Ala Phe Trp His Glu Trp Arg Lys Gly Asn
305     310     315     320
Thr Ile Ser Thr Pro Arg Gly Asp Val Val His Leu Asp Leu Arg His
325     330     335
Leu Gly Glu Lys Lys Leu Leu Glu Arg Leu Pro Phe Ile Cys Glu Leu
340     345     350
Ala Lys Ala Tyr Val Gly Val Asp Pro Val Lys Glu Pro Ile Pro Val
355     360     365
Arg Pro Thr Ala His Tyr Thr Met Gly Gly Ile Glu Thr Asp Gln Gln
370     375     380
Cys Glu Thr Arg Ile Lys Gly Leu Phe Ala Val Gly Glu Cys Ser Ser
385     390     395     400
Val Gly Leu His Gly Ala Asn Arg Leu Gly Ser Asn Ser Leu Ala Glu
405     410     415
Leu Val Val Phe Gly Arg Met Ala Gly Glu Arg Ala Val Glu Arg Ala
420     425     430
Ala Thr Ala Gly Glu Ala Asn Ser Ala Ala Leu Asp Ala Gln Val Val

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435 440 445
 Asp Val Glu Lys Arg Leu Lys Asp Leu Val Asn Gln Glu Gly Asn Glu
 450 455 460
 Asn Trp Ser Lys Ile Arg Asp Glu Met Gly Leu Ser Met Glu Glu Gly
 465 470 475 480
 Cys Gly Ile Tyr Arg Thr Pro Glu Leu Met Gln Lys Thr Val Asp Lys
 485 490 495
 Leu Ala Glu Leu Gln Glu Arg Phe Lys Arg Val Arg Ile Thr Asp Thr
 500 505 510
 Ser Ser Val Phe Asn Thr Asp Leu Leu Tyr Thr Ile Glu Leu Gly His
 515 520 525
 Gly Leu Asn Val Ala Glu Cys Met Ala His Ser Ala Leu Ala Arg Lys
 530 535 540
 Glu Ser Arg Gly Ala His Gln Arg Leu Asp Glu Gly Cys Thr Glu Arg
 545 550 555 560
 Asp Asp Val Asn Phe Leu Lys His Thr Leu Ala Trp Arg Asp Ala Asp
 565 570 575
 Gly Thr Thr Arg Leu Asp Tyr Ser Asp Val Lys Ile Thr Thr Leu Pro
 580 585 590
 Pro Ala Lys Arg Val Tyr Gly Ala Glu Ala Glu Ala Ala Asp Lys Lys
 595 600 605
 Glu Lys Ala Asn Gly
 610

<210> 7309
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 7309
 Gln Gln Leu Ser Leu Trp Ser Phe Cys Leu Ser His Cys Phe Gly Lys
 1 5 10 15
 Glu Thr Thr Val Ile Asn Pro Asn Pro Lys Arg Ser Asp Glu Pro Val
 20 25 30
 Phe Trp Gly Leu Phe Gly Ala Gly Gly Met Trp Ser Ala Ile Ile Ala
 35 40 45
 Pro Val Ile Ile Leu Leu Val Gly Ile Met Leu Pro Leu Gly Leu Phe
 50 55 60
 Pro Gly Asp Ala Leu Ser Tyr Glu Arg Val Leu Ala Phe Ala Ser Ser
 65 70 75 80
 Phe Ile Gly Arg Val Phe Ile Phe Leu Met Ile Val Leu Pro Leu Trp
 85 90 95
 Cys Gly Leu His Arg Ile His His Ala Met His Asp Leu Lys Ile His
 100 105 110
 Val Pro Ser Gly Lys Trp Val Phe Tyr Gly Leu Ala Thr Ile Leu Thr
 115 120 125
 Val Val Thr Leu Ile Ala Val Val Thr Ile
 130 135

<210> 7310
 <211> 1161
 <212> PRT
 <213> Enterobacter cloacae

<400> 7310
 Pro Asn Ser Ala Ser Leu Trp Gln Tyr Arg Arg Arg Ser Leu Gln His
 1 5 10 15
 Gln Thr Leu Arg Gln Pro Arg Cys Arg Lys Met Arg Ser Lys Pro Ser
 20 25 30
 Thr Thr Pro Ala Arg Trp Leu Thr Thr Lys Lys Thr Lys Ala Asn Asn
 35 40 45

Arg Arg Ile Ala Asp Val Arg Pro Ile Ile Val Leu Met Ala Trp
 50 55 60
 Cys Leu Ser Met Gly Ala Tyr Ala Ala Thr Ala Pro Asp Ala Lys Gln
 65 70 75 80
 Ile Thr Gln Glu Leu Glu Gln Ala Lys Ala Ala Lys Pro Ala Gln Pro
 85 90 95
 Glu Thr Val Glu Ser Leu Gln Ser Ala Leu Asn Ala Leu Glu Glu Arg
 100 105 110
 Lys Gly Ser Leu Glu Arg Ala Gln Gln Tyr Gln Gln Val Ile Asp Asn
 115 120 125
 Phe Pro Lys Leu Ser Gln Thr Leu Arg Ser Gln Leu Asn Asn Leu Arg
 130 135 140
 Asp Glu Pro Arg Gln Val Pro Ala Gly Met Thr Ser Glu Ala Leu Asn
 145 150 155 160
 Gln Glu Ile Leu Gln Val Ser Ser Gln Leu Leu Glu Lys Ser Arg Leu
 165 170 175
 Ala Gln Gln Glu Gln Glu Arg Ala Arg Glu Ile Ala Asp Ser Leu Ser
 180 185 190
 Gln Leu Pro Gln Gln Gln Thr Asp Ala Arg Arg Gln Leu Asn Glu Val
 195 200 205
 Glu Arg Arg Ile Gly Thr Gln Thr Gly Ser Thr Pro Gln Asn Gln Ala
 210 215 220
 Gln Asn Leu Gly Leu Gln Ala Glu Ser Ala Arg Leu Lys Ala Leu Val
 225 230 235 240
 Asp Glu Leu Glu Leu Ala Gln Leu Ser Ala Asn Asn Arg Gln Glu Leu
 245 250 255
 Ser Arg Met Arg Ser Glu Leu Ala Gln Lys Gln Ser Gln Gln Leu Asp
 260 265 270
 Ala Tyr Leu Gln Ala Leu Arg Asn Gln Leu Asn Ser Gln Arg Gln Arg
 275 280 285
 Glu Ala Glu Arg Ala Leu Glu Ser Thr Glu Leu Leu Ala Glu Asn Ser
 290 295 300
 Ala Asn Leu Pro Asp Ser Ile Val Ala Gln Phe Lys Val Asn Arg Glu
 305 310 315 320
 Leu Ser Ala Ala Leu Asn Gln Gln Ala Gln Arg Met Asp Leu Val Ala
 325 330 335
 Ser Gln Gln Arg Gln Ala Thr Asn Gln Thr Leu Gln Val Arg Gln Ala
 340 345 350
 Leu Asn Thr Leu Arg Glu Gln Ser Gln Trp Leu Gly Ser Ser Asn Leu
 355 360 365
 Leu Gly Glu Ala Leu Arg Ala Gln Val Ala Arg Leu Pro Glu Met Pro
 370 375 380
 Lys Pro Gln Gln Leu Asp Thr Glu Met Ala Gln Leu Arg Val Gln Arg
 385 390 395 400
 Leu His Tyr Glu Asp Leu Leu Asn Lys Gln Pro Gln Ile Arg Gln Ile
 405 410 415
 Arg Gln Ala Asp Gly Gln Pro Leu Thr Gly Glu Gln Ser Arg Ile Leu
 420 425 430
 Glu Ala Gln Leu Arg Thr Gln Arg Glu Leu Leu Asn Ser Leu Leu Gln
 435 440 445
 Gly Gly Asp Thr Leu Ile Leu Glu Leu Thr Lys Leu Lys Val Ser Asn
 450 455 460
 Ser Gln Leu Glu Asp Ala Leu Lys Glu Val Asn Glu Ala Thr His Arg
 465 470 475 480
 Tyr Leu Phe Trp Thr Ser Asp Val Arg Pro Met Thr Phe Ala Trp Pro
 485 490 495
 Ile Glu Ile Val Gln Asp Leu Arg Arg Leu Ile Ser Leu Asp Thr Phe
 500 505 510
 Ser Gln Leu Gly Leu Ala Ser Val Met Met Ile Thr Ser Lys Glu Thr
 515 520 525
 Ile Phe Pro Leu Leu Gly Ala Leu Ile Leu Val Gly Phe Ser Ile Tyr

530	535	540
Ser Arg Arg His Phe Thr Arg Phe Leu Glu Arg Ser Ser Ala Arg Val		
545	550	555
Gly Lys Val Thr Gln Asp His Phe Trp Leu Thr Leu Arg Thr Val Phe		
	565	570
Trp Ser Ile Leu Val Ala Ser Pro Leu Pro Val Leu Trp Met Thr Leu		
	580	585
Gly Tyr Gly Leu Arg Glu Ala Trp Pro Tyr Pro Leu Ala Val Ala Ile		
	595	600
Gly Asp Gly Val Thr Ala Thr Val Pro Leu Leu Trp Val Val Met Ile		
	610	615
Cys Ala Thr Phe Ala Arg Pro Asn Gly Leu Phe Ile Ala His Phe Gly		
625	630	635
Trp Pro Arg Asn Arg Val Ala Arg Ala Met Arg Tyr Tyr Leu Met Ser		
	645	650
Ile Gly Leu Ile Val Pro Leu Ile Met Ala Leu Ile Met Phe Asp Asn		
	660	665
Leu Asn Asp Arg Glu Phe Ser Gly Ser Leu Gly Arg Leu Cys Phe Met		
	675	680
Leu Ile Cys Gly Ala Leu Ala Val Val Thr Leu Ser Leu Lys Arg Ala		
	690	695
Gly Ile Pro Leu Tyr Leu Asp Lys Thr Gly Ser Gly Asp Asn Met Leu		
705	710	715
Asn Arg Leu Leu Trp Asn Leu Leu Leu Ser Ala Pro Leu Ala Ala Met		
	725	730
Leu Ala Ala Ala Val Gly Tyr Leu Ala Thr Ser Gln Ala Leu Leu Ala		
	740	745
Arg Leu Glu Thr Ser Val Ala Ile Trp Phe Leu Leu Leu Val Val Tyr		
	755	760
His Val Ile Arg Arg Gly Met Leu Ile Gln Arg Arg Arg Leu Ala Phe		
	770	775
Asp Arg Ala Lys His Arg Arg Ala Glu Ile Leu Ala Gln Arg Ala Arg		
785	790	795
Gly Glu Glu Glu Pro Asn His Val Asn Ser Thr Glu Gly Thr Thr Asp		
	805	810
Ala Asp Asp Val Glu Leu Asp Leu Asp Ala Ile Ser Thr Gln Ser Leu		
	820	825
Arg Leu Val Arg Ser Ile Leu Met Leu Val Ala Leu Leu Ser Val Ile		
	835	840
Tyr Leu Trp Ser Glu Ile His Ser Ala Phe Gly Phe Leu Glu Asn Ile		
	850	855
Ser Leu Trp Asp Val Thr Ser Thr Val Gln Gly Val Glu Ser Leu Glu		
865	870	875
Pro Ile Thr Leu Gly Ala Val Leu Ile Ala Ile Leu Val Leu Ile Ile		
	885	890
Thr Thr Gln Leu Ile Arg Asn Phe Pro Ala Leu Leu Glu Leu Ala Leu		
	900	905
Leu Gln His Leu Asp Leu Thr Pro Gly Thr Gly Tyr Ala Ile Thr Thr		
	915	920
Ile Thr Lys Tyr Leu Ile Met Leu Phe Gly Gly Leu Val Gly Phe Ser		
	930	935
Met Ile Gly Ile Glu Trp Ser Lys Leu Gln Trp Leu Val Ala Ala Leu		
945	950	955
Thr Val Gly Leu Gly Phe Gly Leu Gln Glu Ile Phe Ala Asn Phe Val		
	965	970
Ser Gly Leu Ile Ile Leu Phe Glu Lys Pro Ile Arg Ile Gly Asp Thr		
	980	985
Val Thr Ile Arg Asp Leu Thr Gly Ser Val Thr Arg Ile Asn Thr Arg		
	995	1000
Ala Thr Thr Ile Ser Asp Trp Asp Arg Lys Glu Ile Ile Val Pro Asn		
1010	1015	1020

Lys Ala Phe Ile Thr Glu Gln Phe Ile Asn Trp Ser Leu Ser Asp Ser
 1025 1030 1035 1040
 Val Thr Arg Val Val Leu Thr Val Pro Ala Pro Ser Asp Ala Asn Ser
 1045 1050 1055
 Glu Glu Val Thr Gln Ile Leu Tyr Thr Ala Ala Glu Arg Cys Ser Leu
 1060 1065 1070
 Val Ile Asp Asn Pro Pro Pro Glu Val Phe Leu Val Asp Leu Gln Gln
 1075 1080 1085
 Gly Ile Gln Ile Phe Glu Leu Arg Ile Tyr Ala Ala Glu Met Gly His
 1090 1095 1100
 Arg Met Pro Leu Arg His Glu Ile His Gln Leu Ile Leu Ala Gly Phe
 1105 1110 1115 1120
 Arg Glu His Gly Ile Asp Met Pro Phe Pro Phe Gln Met Arg Leu
 1125 1130 1135
 Glu Thr Leu Asp Gly Arg Lys Thr Gly Arg Thr Leu Thr Ser Ala Ala
 1140 1145 1150
 Arg Thr Arg Pro Ala Gly Ser Leu
 1155 1160

<210> 7311

<211> 270

<212> PRT

<213> Enterobacter cloacae

<400> 7311

Lys Ser Pro Arg Cys His Arg Arg Asn Ala Cys Thr Val Gln Lys Gln
 1 5 10 15
 Lys Pro Pro Ile Arg Arg Arg Arg Met Ala Glu Met Gln Lys Leu
 20 25 30
 Lys Val Glu Val Val Arg Tyr Asn Pro Glu Val Asp Ala Ala Pro His
 35 40 45
 Ser Ala Phe Tyr Glu Val Pro Tyr Asp Glu Gln Thr Ser Leu Leu Asp
 50 55 60
 Ala Leu Gly Tyr Ile Lys Asp Asn Leu Ala Pro Asp Leu Ser Tyr Arg
 65 70 75 80
 Trp Ser Cys Arg Met Ala Ile Cys Gly Ser Cys Gly Met Met Val Asn
 85 90 95
 Lys Val Pro Lys Leu Ala Cys Lys Thr Phe Leu Arg Asp Tyr Thr Lys
 100 105 110
 Gly Ile Lys Val Glu Ala Leu Gly Asn Phe Pro Ile Glu Arg Asp Leu
 115 120 125
 Val Val Asp Met Thr His Phe Ile Glu Ser Leu Glu Ala Ile Lys Pro
 130 135 140
 Tyr Ile Ile Gly Asn Pro Arg Thr Pro Asp Gln Gly Pro Asn Thr Gln
 145 150 155 160
 Thr Pro Ala Gln Met Ala Lys Tyr His Gln Phe Ser Gly Cys Ile Asn
 165 170 175
 Cys Gly Leu Cys Tyr Ala Ala Cys Pro Gln Phe Gly Leu Asn Pro Glu
 180 185 190
 Phe Ile Gly Pro Ala Ala Ile Thr Leu Ala His Arg Tyr Asn Glu Asp
 195 200 205
 Ser Arg Asp His Gly Lys Lys Glu Arg Met Ala Gln Leu Asn Ser Gln
 210 215 220
 Asn Gly Val Trp Thr Cys Thr Phe Val Gly Tyr Cys Ser Glu Val Cys
 225 230 235 240
 Pro Lys His Val Asp Pro Ala Ala Ala Ile Gln Gln Gly Lys Val Glu
 245 250 255
 Ser Ser Lys Asp Phe Leu Ile Ala Thr Leu Lys Pro Arg
 260 265 270

<210> 7312

<211> 301
 <212> PRT
 <213> Enterobacter cloacae

<400> 7312

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Leu Leu Ile Phe Leu Thr Glu Glu Thr Met Thr Arg Ser Tyr Leu Pro
1      5      10      15
Leu Asn Ser Leu Arg Ala Phe Glu Ala Ala Arg His Leu Ser Phe
20      25      30
Thr His Ala Ala Ile Glu Leu Asn Val Thr His Ser Ala Ile Ser Gln
35      40      45
His Val Lys Thr Leu Glu Gln His Leu Asn Cys Gln Leu Phe Val Arg
50      55      60
Val Ser Arg Gly Leu Met Leu Thr Thr Glu Gly Glu Asn Leu Leu Pro
65      70      75      80
Val Leu Asn Asp Ser Phe Asp Arg Ile Ala Gly Met Leu Asp Arg Phe
85      90      95
Ala Asn His Arg Ala Gln Glu Lys Leu Lys Ile Gly Val Val Gly Thr
100     105     110
Phe Ala Thr Gly Val Leu Phe Ser Gln Leu Glu Asp Phe Arg Arg Gly
115     120     125
Tyr Pro His Ile Asp Leu Gln Leu Ser Thr His Asn Asn Arg Val Asp
130     135     140
Pro Ala Ala Glu Gly Leu Asp Tyr Thr Ile Arg Tyr Gly Gly Gly Ala
145     150     155     160
Trp His Gly Thr Glu Ala Glu Phe Leu Cys His Ala Pro Leu Ala Pro
165     170     175
Leu Cys Thr Pro Asp Ile Ala Ala Ser Leu His Ser Pro Ala Asp Ile
180     185     190
Leu Arg Phe Thr Leu Leu Arg Ser Tyr Arg Arg Asp Glu Trp Thr Ala
195     200     205
Trp Met Gln Ala Ala Gly Glu His Pro Pro Ser Pro Thr His Arg Val
210     215     220
Met Val Phe Asp Ser Ser Val Thr Met Leu Glu Ala Ala Gln Ala Gly
225     230     235     240
Val Gly Ile Ala Ile Ala Pro Val Asp Met Phe Thr His Leu Leu Ala
245     250     255
Ser Glu Arg Ile Val Gln Pro Phe Ala Thr Gln Ile Glu Leu Gly Ser
260     265     270
Tyr Trp Leu Thr Arg Leu Gln Ser Arg Ala Glu Thr Pro Ala Met Arg
275     280     285
Glu Phe Ser Arg Trp Leu Val Glu Lys Met Lys Lys
290     295     300

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<210> 7313
 <211> 327
 <212> PRT
 <213> Enterobacter cloacae

<400> 7313

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Leu Met Ser Glu Thr Ala Thr Trp Gln Pro Ser Ala Ser Ile Pro Asn
1      5      10      15
Leu Leu Lys Arg Ala Ala Ile Met Ala Glu Ile Arg Arg Phe Phe Ala
20      25      30
Asp Arg Gly Val Leu Glu Val Glu Thr Pro Cys Met Ser Gln Ala Thr
35      40      45
Val Thr Asp Ile His Leu Val Pro Phe Glu Thr Arg Phe Val Gly Pro
50      55      60
Gly His Ser Gln Gly Met Asn Leu Tyr Leu Met Thr Ser Pro Glu Tyr
65      70      75      80
His Met Lys Arg Leu Leu Ala Ala Gly Cys Gly Pro Val Tyr Gln Leu

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<210> 7314
<211> 521
<212> PRT
<213> Enterobacter cloacae
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Pro	Gln	Tyr	Leu	Ser	Gly	His	Leu	Leu	Pro	Ser	Ala	Gln	Phe	Asn	Ser
1			5						10					15	
Val	Ser	Asp	Gly	Tyr	Met	Ser	His	Ser	Leu	Lys	Lys	Met	Thr	Leu	Thr
		20						25					30		
Gly	Leu	Ile	Leu	Met	Ile	Phe	Thr	Ser	Val	Phe	Gly	Phe	Ala	Asn	Ser
		35					40					45			
Pro	Ser	Ala	Phe	Tyr	Leu	Met	Gly	Tyr	Ser	Ala	Thr	Pro	Phe	Tyr	Ile
		50					55				60				
Val	Ser	Ala	Leu	Phe	Phe	Phe	Ile	Pro	Phe	Ala	Leu	Met	Met	Ala	Glu
65					70					75					80
Met	Gly	Ser	Ala	Tyr	Arg	Lys	Glu	Glu	Gly	Gly	Ile	Tyr	Ser	Trp	Met
				85					90					95	
Asn	Asn	Ser	Val	Gly	Pro	Arg	Tyr	Ala	Phe	Ile	Gly	Thr	Phe	Met	Trp
			100					105					110		
Phe	Ser	Ser	Tyr	Val	Val	Trp	Met	Val	Ser	Thr	Ala	Ala	Lys	Val	Trp
			115				120					125			
Val	Pro	Phe	Ser	Thr	Phe	Leu	Phe	Gly	Ala	Asp	Lys	Thr	Gln	Val	Trp
		130				135					140				
Ser	Leu	Ala	Gly	Leu	Ser	Ser	Thr	Gln	Val	Val	Gly	Ile	Leu	Ala	Val
145				150						155					160
Cys	Trp	Met	Val	Val	Val	Thr	Leu	Val	Ala	Ser	Lys	Gly	Ile	Asn	Lys
				165					170					175	
Ile	Ala	Arg	Ile	Thr	Ala	Val	Gly	Gly	Ile	Ser	Val	Met	Cys	Leu	Asn

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180      185      190
Leu Val Leu Leu Val Ser Ile Ala Ile Leu Cys Leu Asn Gly Gly
195      200      205
His Phe Ala Gln Glu Val Asn Phe Val Ser Ser Pro Asn Pro Gly Tyr
210      215      220
Gln Ser Gly Leu Ala Met Leu Ser Phe Val Val Phe Ala Ile Phe Ala
225      230      235      240
Tyr Gly Gly Ile Glu Ala Val Gly Gly Leu Val Asp Lys Thr Glu Asn
245      250      255
Pro Glu Lys Asn Phe Ala Lys Gly Ile Ile Phe Ala Ala Ile Val Ile
260      265      270
Ser Ile Gly Tyr Ser Leu Ala Ile Phe Leu Trp Gly Val Ser Thr Asn
275      280      285
Trp Gln Gln Val Leu Ser Asn Asn Thr Thr Asn Leu Gly Asn Ile Thr
290      295      300
Tyr Val Leu Met Lys Ser Leu Gly Val Thr Leu Gly Asn Ala Met Asp
305      310      315      320
Leu Ala Pro Glu Thr Ser Ala Thr Leu Gly Ile Trp Phe Ala Arg Ile
325      330      335
Thr Gly Leu Ser Met Phe Leu Ala Tyr Thr Gly Ala Phe Phe Thr Leu
340      345      350
Ile Tyr Ser Pro Leu Lys Ala Ile Ile Gln Gly Thr Pro Lys Ala Leu
355      360      365
Trp Pro Ala Arg Met Thr Gln Leu Asn Ala Ala Gly Met Pro Ala Asn
370      375      380
Ala Met Trp Met Gln Cys Met Leu Val Cys Val Phe Ile Leu Leu Val
385      390      395      400
Ser Phe Gly Gly Asp Thr Ala Ser Ala Phe Tyr Asn Lys Leu Thr Leu
405      410      415
Met Ala Asn Val Ser Met Thr Leu Pro Tyr Leu Phe Leu Thr Leu Ala
420      425      430
Phe Pro Phe Phe Lys Ala Lys Gln Asp Leu Glu Arg Pro Phe Val Ile
435      440      445
Phe Lys Thr Arg Ala Ala Thr Leu Ala Thr Thr Val Val Val Leu
450      455      460
Val Val Ala Phe Ala Asn Ile Phe Thr Val Ile Gln Pro Val Val Glu
465      470      475      480
Ala Asn Asp Trp Asn Ser Thr Leu Trp Met Val Gly Gly Pro Ile Phe
485      490      495
Phe Ser Leu Leu Ala Met Gly Ile Tyr Glu His Tyr Arg Arg Arg Ser
500      505      510
Thr Ala Cys Val Ala Glu Val Ala
515      520

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<210> 7315

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 7315

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Asn Met Ala Lys Tyr Pro Ile Ser Asn Lys Ala Asp Asn Asp Arg Ile
1      5      10      15
Gln Ile Arg Ser Phe Trp Ile Ser Glu Arg Lys Ala Pro Tyr Val Tyr
20      25      30
Ser Phe Leu Lys Lys Thr Glu Leu Cys His Arg Gly Asp Gln Leu Asp
35      40      45
Leu Ile Arg Ser Ala Ile Ser Thr Gly Leu Val Leu Asn Asn Leu Phe
50      55      60
Pro Asp Leu Ala Asn Phe Ile Asn Gly Leu Asn Glu Arg Leu Thr Leu
65      70      75      80
Ala Asp Leu Asn Arg Phe Leu Asn Asp Gly Asn Thr Ile Asp Thr Glu

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85 90 95
 Pro Lys Pro Pro Ile Asn Val Leu Leu Glu Asn Val Leu Asp Gln Lys
 100 105 110
 Phe Lys Glu Tyr Leu Thr Pro Leu Gln Leu Asp Asn Ser Lys Gln Asp
 115 120 125
 Ser Val Ser Val Lys Glu Thr Phe Leu Val Gln Lys Glu His Ala Cys
 130 135 140
 Phe Gly Val Lys Ile Glu Asn Glu Gly Ser Asp Thr Ser Ile Pro Ser
 145 150 155 160
 Glu Ser Pro Leu Ser Ser Gly Ala Ser Lys Ile Ser Lys Glu Lys Ser
 165 170 175
 Ile Ser Ser Val Val Pro Val Leu Glu Lys Val Ser Asp Glu Asn Gln
 180 185 190
 Thr Ala Ser Ile Ser Ile Lys Ser Lys Ala Lys Ala Asn Lys Arg Leu
 195 200 205
 Ala Thr Leu Ala Arg
 210

<210> 7316

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 7316

Leu His Lys Ile Ser Arg Arg Val Arg Ala His Met Ser His Thr Ile
 1 5 10 15
 Arg Asp Lys Gln Lys Leu Lys Ala Arg Thr Ser Lys Ile Gln Gly Gln
 20 25 30
 Val Ala Ala Leu Lys Lys Met Leu Asp Glu Pro His Glu Cys Ala Ala
 35 40 45
 Val Leu Gln Gln Ile Ala Ala Ile Arg Gly Ala Val Asn Gly Leu Leu
 50 55 60
 Arg Glu Val Ile Lys Gly His Leu Thr Glu His Ile Val His Glu Ser
 65 70 75 80
 Glu Glu Gln Lys Arg Glu Glu Asp Leu Asp Val Val Leu Lys Val Leu
 85 90 95
 Asp Ser Tyr Ile Lys
 100

<210> 7317

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 7317

Glu Trp Lys Arg Ser Tyr Leu Tyr Arg Gln Tyr Leu Ala Ser Glu Cys
 1 5 10 15
 Ser Glu Arg Ser Tyr Gln His Ile Phe Cys Lys Pro Ala Ser Gly Arg
 20 25 30
 Arg Lys Lys Met Met Ile Glu Asn Asp Lys Glu Lys Ser Leu Asn Asp
 35 40 45
 Ala Thr Ser Pro Glu Val Gln Asn Asp Ile Arg Ser Glu Ser Thr Glu
 50 55 60
 Lys Ser Lys Glu Met Gly Arg Ser Arg Tyr Ser Ser Ile Ala Met Ile
 65 70 75 80
 Asp Tyr Phe Asn Ala Ile Glu Arg Leu Cys Glu Glu Lys Lys Ile Asn
 85 90 95
 Pro Glu Asn Ile Asp Leu Ser Phe Lys Val His Trp Leu Arg Asn Ala
 100 105 110
 Val Gly Gly Ser Phe Ala Arg Ser Gln Glu Met Phe Ala Glu Tyr Gln
 115 120 125

Lys Tyr Val Lys Glu Val Pro Glu Glu Ala Arg Tyr Leu Asp Ile Pro
 130 135 140
 Asp Glu Val Lys Val Ala Leu Gly Asp Ile Ile Ser Tyr Ile Thr Trp
 145 150 160
 His Tyr Arg Arg Ser Tyr Thr Ala Ile Gln Ser Asp Ser Val Lys Lys
 165 170 175
 Ala Glu Ala Arg Ser Met Gln Leu Glu Glu Glu Val Thr Gln Leu Leu
 180 185 190
 Gln Arg Leu Glu Gln Ser Ala Thr Asp Met Asp Glu Leu Lys Leu Glu
 195 200 205
 Asn Gln Ala Leu Gln Gly Arg Leu Glu Ile Arg Asp Ser Thr Val Lys
 210 215 220
 Glu Leu Glu Thr Arg Leu Asn Val Ala Glu Ala Glu Leu Glu Thr Cys
 225 230 235 240
 His His Gln Leu Asp Ser Thr Arg His Glu Leu Ser Leu Ala Gln Gln
 245 250 255
 Ser Asn Asp Ser Leu Ser Gln Gln Leu Ala Glu Arg Lys Thr Glu Ile
 260 265 270
 Ala Gly His Leu Glu Tyr Gln Lys Lys Leu Asn Glu Glu Ile Asn Thr
 275 280 285
 Gln Arg Ser Asp Asn Ala Gly Leu Ser Arg Gln Cys Asp Gln Leu Ser
 290 295 300
 Gln Thr Val Ser Asp Thr Lys Ala Glu Arg Asp Arg Phe Glu Gln Glu
 305 310 315 320
 Leu Ile Ala Ala Gln Asn Leu Cys Ala Glu Leu Lys Ser Ala Leu Ser
 325 330 335
 Gly Lys Glu Gly Asp Leu Val Ala Val Asn Ala Glu Leu Thr Glu Leu
 340 345 350
 His Lys Leu Asn Glu Ser Leu Ser Ala Asp Leu Lys Lys Val Thr Leu
 355 360 365
 Val Ser Gln Gly Tyr Glu Ala Glu Val Ala Glu Gln Ser Ser Glu Leu
 370 375 380
 Lys Thr Leu Gln Ser Lys Val Met Lys Leu Glu Ala Thr Leu Glu Ala
 385 390 395 400
 Glu Lys Thr Ile Ser Glu Ser Leu Lys Gly Thr Ile Asp Thr Leu Thr
 405 410 415
 Gly Ala Met Ala Gly Gly Gly Thr Gly Lys Ser Lys Gln Pro Arg Ser
 420 425 430
 Arg Lys Thr Ser
 435

<210> 7318

<211> 255

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> {20}

<400> 7318

Phe Ser Pro Lys Thr Arg Lys Leu Gly Arg Leu Lys Val His Gln Gln
 1 5 10 15
 Leu His Val Xaa Gly Leu Val Pro Gln Asp Val His Leu Phe Val Thr
 20 25 30
 Val Pro Leu Ser Gln Phe Tyr Thr Ala Leu Gly Glu Thr Asn Ile Glu
 35 40 45
 Asn Ile Gln Arg Lys Lys Asp Asn Leu Met Lys Pro Val Glu Arg Tyr
 50 55 60
 Leu Asp Gly Lys Arg Tyr Ser Phe Asn Val Leu Ser Val Thr Val Phe
 65 70 75 80

Pro Glu Ser Leu Pro Ala Val Thr Arg Ala Asp Glu Ile Glu Asp Ile
 85 90 95
 Ala Ser Phe Glu Ser Ser Leu Val Ile Asp Leu Gly Gly Thr Thr Leu
 100 105 110
 Asp Val Ala Ser Ile Thr Gly Gln Leu Glu Gln Ile Ser Lys Val Lys
 115 120 125
 Gly Phe Asp Arg Ile Gly Cys Ser Ile Val Tyr Asp Glu Ile Ser Arg
 130 135 140
 Tyr Leu Glu Ser Glu Lys Leu Asn Thr Ser Asn Ala Tyr Ile His His
 145 150 155 160
 Leu Val Asp Asn Arg His Asp Lys Ser Ala Leu Lys Val Ala Glu Asp
 165 170 175
 Lys Arg Asp Gly Val Phe Asp Ala Val Asn Ser Ala Val Gln Lys Leu
 180 185 190
 Gln Ser Lys Val Ile Arg Ala Val Thr Gln Val Glu Glu Arg Pro His
 195 200 205
 Asn Val Phe Leu Val Gly Gly Gly Ser Tyr Leu Ile Glu Thr Ala Ile
 210 215 220
 Arg Lys His Phe Glu Thr Ala Lys Val Ile Met Val Asp Asn Pro Gln
 225 230 235 240
 Phe Ala Leu Ser Leu Ala Ile Ala Asp Thr Ile Tyr Ser Glu
 245 250 255

<210> 7319

<211> 472

<212> PRT

<213> *Enterobacter cloacae*

<400> 7319

Val Thr Ile Tyr Arg Pro Thr Val Ala Gln Glu Met Gly Gly Asp His
 1 5 10 15
 Ser Ile Asn Lys Ala Ala Val Met Leu Thr Val Trp Trp Leu Ser Ser
 20 25 30
 Phe Ile Leu Ile Ser Thr Leu Asn Gly Tyr Phe Asp Asn Gln Asp Arg
 35 40 45
 Asp Phe Leu Thr Gly Lys Leu Gln Leu Thr Glu Glu Phe Leu Lys Thr
 50 55 60
 Glu Thr Phe Arg Asn Lys Thr Asp Ile Lys Ser Leu Ser Glu Lys Ile
 65 70 75 80
 Asn Asp Ala Met Val Gly His Asn Gly Leu Phe Ile Ser Ile Lys Asn
 85 90 95
 Met Glu Asn Glu Lys Ile Val Glu Leu Tyr Ala Lys Asn Ser Val Val
 100 105 110
 Pro Ala Val Leu Leu Asn Lys Ser Gly Asp Ile Leu Asp Tyr Met Ile
 115 120 125
 Gln Thr Glu Glu Asn Asn Thr Val Tyr Arg Ser Ile Ser Arg Arg Val
 130 135 140
 Ala Val Thr Pro Glu Gln Gly Lys Ser Lys His Val Ile Ile Thr Val
 145 150 155 160
 Ala Thr Asp Thr Gly Tyr His Thr Leu Phe Met Asp Lys Leu Ser Thr
 165 170 175
 Trp Leu Phe Trp Phe Asn Ile Gly Leu Val Phe Ile Ser Val Phe Leu
 180 185 190
 Gly Trp Leu Thr Thr Arg Ile Gly Leu Lys Pro Leu Arg Glu Met Thr
 195 200 205
 Ser Leu Ala Ser Ser Met Thr Val His Ser Leu Asp Gln Arg Leu Asn
 210 215 220
 Pro Asp Leu Ala Pro Pro Glu Ile Ser Glu Thr Met Gln Glu Phe Asn
 225 230 235 240
 Asn Met Phe Asp Arg Leu Glu Gly Ser Phe Arg Lys Leu Ser Asp Phe
 245 250 255

Ser Ser Asp Ile Ala His Glu Leu Arg Thr Ala Val Ser Asn Leu Met
 260 265 270
 Met Gln Thr Gln Phe Ala Leu Ala Lys Glu Arg Asp Val Ser His Tyr
 275 280 285
 Arg Glu Ile Leu Phe Ala Tyr Leu Glu Glu Leu Lys Arg Leu Ser Arg
 290 295 300
 Met Thr Ser Asp Met Leu Phe Leu Ala Arg Ser Glu His Gly Leu Leu
 305 310 315 320
 Gln Leu Asp Lys His Asp Val Asp Leu Ala Ala Glu Leu Asn Glu Leu
 325 330 335
 Arg Glu Leu Phe Glu Pro Leu Ala Asp Glu Thr Gly Lys Thr Ile Thr
 340 345 350
 Val Glu Gly Glu Gly Val Val Ala Gly Asp Ser Asp Met Leu Arg Arg
 355 360 365
 Ala Phe Ser Asn Leu Leu Ser Asn Ala Ile Lys Tyr Ser Pro Asp Asn
 370 375 380
 Thr Cys Thr Ala Ile His Leu Glu Arg Asp Ser Asp Cys Val Asn Val
 385 390 395 400
 Met Ile Thr Asn Thr Met Ser Gly Gln Val Pro Ala Asn Leu Glu Arg
 405 410 415
 Leu Phe Asp Arg Phe Tyr Arg Ala Asp Ser Ser Arg Val His Asn Thr
 420 425 430
 Glu Gly Ala Gly Leu Gly Leu Ser Ile Thr Arg Ser Ile Ile His Ala
 435 440 445
 His Gly Gly Glu Leu Ser Ala Glu Gln Gln Gly Arg Glu Ile Val Phe
 450 455 460
 Ser Val Arg Leu Leu Met Asp
 465 470

<210> 7320

<211> 275

<212> PRT

<213> *Enterobacter cloacae*

<400> 7320

Val Ile Val Val Ser Tyr Gln Gly Ser Glu Pro Val Pro Ala Ser Arg
 1 5 10 15
 Thr Gly Gln Leu Ile Ser Ala Arg Asp Met Ala Met Gln Lys Phe Glu
 20 25 30
 Glu Gly Met Arg Leu Ile Ser Glu Ala Ser Glu Leu Cys Gly Leu Ser
 35 40 45
 Leu Phe Thr Ser Arg Ile Met Gln Pro Asn Ala Phe Gly Leu Pro Ser
 50 55 60
 Ser Leu Asp Arg Thr Ile Glu Glu Gly Arg Lys Glu Ile Asp Arg Lys
 65 70 75 80
 Thr Trp Lys Arg Leu Phe Glu Glu Ile Gly Met Asp Arg Tyr Trp Asn
 85 90 95
 His Lys Gln Lys Glu Ala Phe Asn Glu Ser Leu Arg Thr Asp Pro Pro
 100 105 110
 Val Ala Ser Leu Glu Ile Val Lys Gly Thr Leu Gln His Ala Leu Ala
 115 120 125
 Asn Arg Arg Asp Thr Leu Ala Glu Gly Phe Val Asp Val Leu Asn Lys
 130 135 140
 Leu Asp Arg Ser Phe Lys Ser Asn Ala Arg Gln Tyr Thr Met Pro Lys
 145 150 155 160
 Lys Leu Val Leu Arg Gly Ile Phe Pro Gly Val Asn Val Leu Arg Tyr
 165 170 175
 Asn Gly Phe Ser Gln Asp Asn His Phe Cys Leu Arg Asp Phe Glu Asn
 180 185 190
 Ile Val Cys Ile Cys Ser Asp Thr Pro Thr Pro Ala Thr Gly Gly Gly
 195 200 205

Leu Ser Met Val Asp Arg Leu Thr Ala Met Arg Asn Thr Asp Phe Thr
 210 215 220
 Gly Glu Val Cys Asp Glu Asn Gly Trp Arg Cys Arg Leu Phe Glu Asn
 225 230 235 240
 Gly Asn Val His Ile Cys Ile Asp Ser Ile Ser Leu Leu Asn Ala Leu
 245 250 255
 Asn Asp Leu Ile Ser Ile Tyr Phe Ala Asn Gln Leu Pro Ala Ala Gly
 260 265 270
 Lys Lys
 275

<210> 7321
 <211> 149
 <212> PRT
 <213> Enterobacter cloacae

<400> 7321
 Val Ala Ala Lys Thr Asn Lys Asp Asp Thr Phe Thr Val Leu Gly Ser
 1 5 10 15
 Glu Met Thr Ala Ile Asp Asp Phe Arg Ile Ile Arg Ala Arg Ala Phe
 20 25 30
 Ala Val Cys Asp Val Val Ala Lys Leu Ile Glu Arg Phe His Asp Asp
 35 40 45
 Val Lys Gly Ile Thr Leu Ile Val Thr Leu Gln Ile Phe Tyr Val Phe
 50 55 60
 Gln Asn Lys Asn Cys Arg Leu Phe Cys Pro Asp Asp Pro Gly His Ile
 65 70 75 80
 Lys Glu Glu Arg Thr Leu Ser Val Ala Leu Glu Thr Val Phe Ala Thr
 85 90 95
 His Arg Val Leu Phe Thr Asp Thr Gly Asp Ala Glu Trp Leu Ala Trp
 100 105 110
 Lys Ser Arg Lys Lys Asn Ile Met Ile Arg Asp Arg Gly Ile Asp Lys
 115 120 125
 Phe Val Cys Leu Val Ile Ser Asn Leu Gly Pro Val Ala Lys Ser Asp
 130 135 140
 Val Thr Asp Val
 145

<210> 7322
 <211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 7322
 Val Arg Asn Val Val Gln Arg Gln Val Cys Thr Asp Asp Phe Met Cys
 1 5 10 15
 Val Ala Val Asn Cys Gln Met Gln Leu Thr Pro Tyr Thr Ala Ala Phe
 20 25 30
 Leu Ala Met Leu Phe Asp Phe Pro Leu Ala Phe Thr Glu Asp Leu Gln
 35 40 45
 Pro Gly Gly Ile Asn Tyr Gln Val Cys Asp Phe Thr Pro Gly Gly Arg
 50 55 60
 Phe Glu Thr Asp Ile Asn Arg Leu Cys Pro Pro Ala Asp Thr Ala Val
 65 70 75 80
 Ile Arg Ala Ala
 85

<210> 7323
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<400> 7323

```

Leu Phe Gly Tyr Glu Asn Thr Gly Asp Pro Thr Met Lys Lys Ile Leu
1      5      10      15
Val Ser Phe Val Ala Ile Met Ala Val Ala Ser Ser Ala Met Ala Ala
      20      25      30
Glu Thr Met Asn Met His Asp Gln Val Asn Asn Ala Gln Ala Pro Ala
      35      40      45
His Gln Met Gln Ser Thr Ser Glu Lys Ser Ala Val Gln Gly Asp Ser
      50      55      60
Met Thr Met Met Asp Met Ser Gly His Asp Gln Ala Ala Met Ser His
      65      70      75      80
Glu Met Met Gln Asn Gly Asn Ala Ser Ala His Gln Asp Met Ala Glu
      85      90      95
Met His Lys Lys Met Met Lys Gly Lys Pro Gly Ala Thr Asn Glu Ser
      100      105      110
Ala Thr Ser Phe Ser Glu Met Asn Glu His Glu Lys Ala Ala Val Val
      115      120      125
His Glu Lys Ala Asn Asn Gly Gln Ser Ser Val Ile His Gln Gln Gln
      130      135      140
Ala Glu Lys His Arg Ser Gln Ile Thr Gln Asn
145      150      155

```

<210> 7324

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 7324

```

Leu Val Lys Ile Leu Pro Val Asn Arg Leu Val Asp Thr Cys Leu Tyr
1      5      10      15
Ser Thr Asn Ser Gly Glu Met Met Phe Phe Phe Thr Lys Leu Leu
      20      25      30
Pro Ile Met Ile Val Val Phe Pro Val Ala Ser Trp Gly Asn Ser Thr
      35      40      45
Thr Phe Glu Ala Lys Val Val Lys Ile Val Asp Gly Asp Thr Ile Thr
      50      55      60
Ala Leu Asp Ala Gln Asn Thr Thr Ile Lys Ile Arg Met Tyr Gly Ile
      65      70      75      80
Asp Ala Pro Glu Ser Lys Gln Ala Phe Gly Gln Lys Ala Lys Gln Ala
      85      90      95
Leu Thr Thr Ala Ile Ala Thr Lys Ile Val Thr Val Ile Asp His Gly
      100      105      110
Thr Asp Ile Tyr Gly Arg Met Leu Gly Thr Ile Trp Leu Asp Gly Tyr
      115      120      125
Asp Ile Asn Ala Ser Met Val Asp Ser Gly Tyr Ala Trp Val Tyr Arg
      130      135      140
Phe Glu Asp Asn Ala Ile Val Pro Gly Tyr Ile Lys Tyr Glu Ser Ala
      145      150      155
Ala Gln Lys Glu Ala Lys Gly Leu Trp Ala Asp Thr Asn Pro Val Pro
      165      170      175
Pro Trp Gln Trp Arg Gln Ala Asn Glu Lys Pro Arg Lys Val Lys Gly
      180      185      190
Lys Lys
195

```

<210> 7325

<211> 512

<212> PRT

<213> Enterobacter cloacae

<400> 7325

```

Ser Glu Cys His Val His Ala Pro Thr Gly Asn Gly Val Thr Leu Asn
1      5      10      15
Thr Ser Gln Val Ser Tyr Tyr Met Thr Gln Arg Lys Lys Gly Ala Thr
20      25      30
Gln His Ile Ser Ala Met Lys Ala Gly Ile Ser Val Arg Ser Gly Arg
35      40      45
Arg Ile Glu Lys Asp Gln Trp Ser Lys Ala Gly Glu Arg His Trp Arg
50      55      60
Thr Arg Lys Asp Pro Leu Glu Ala Val Trp Asp Ser Glu Leu Val Pro
65      70      75      80
Leu Leu Lys Glu Arg Pro Ala Leu Met Pro Thr Thr Leu Leu Glu Met
85      90      95
Leu Gln Asp Lys Tyr Pro Gly Gln Tyr Pro Asn Asn Leu Arg Arg Thr
100      105      110
Met Gln Arg Arg Val Arg Glu Trp Lys Leu Gln Tyr Gly Ala Glu Gln
115      120      125
Glu Val Met Phe Arg Gln Arg His Gln Pro Gly Leu Arg Gly Leu Ser
130      135      140
Asp Phe Thr Glu Leu Lys Gly Val Val Val Thr Ile Ala Gly Lys Leu
145      150      155      160
Leu Ala His Lys Leu Tyr His Phe Arg Leu Glu Trp Ser His Trp Ser
165      170      175
Trp Met Arg Val Val Leu Gly Gly Glu Ser Phe Ser Ala Leu Ala Glu
180      185      190
Gly Leu Gln Glu Ala Leu Gly Gln Leu Gly Gly Val Pro Ser Glu His
195      200      205
Lys Thr Asp Ser Leu Arg Ala Ala Trp Lys His Arg Gly Glu Asp Gly
210      215      220
Gln Arg Glu Leu Thr Glu Arg Tyr Ala Glu Leu Cys Arg His Tyr Gly
225      230      235      240
Met Gln Gly Val His Asn Asn Ala Gly Arg Gly His Glu Asn Gly Ser
245      250      255
Val Glu Ser Ala His Gly His Leu Lys Arg Arg Ile Arg Gln Ala Leu
260      265      270
Ile Leu Arg Gly Ser Asn Asp Phe Ser Thr Leu Glu Glu Tyr Gln Ala
275      280      285
Phe Ile Thr Gln Gln Val Met Arg His Asn Arg Asn Asn Gln Asp Leu
290      295      300
Val Lys Glu Glu Gln Pro His Leu Lys Pro Leu Pro Leu Arg Arg Ser
305      310      315      320
Ala Asp Tyr Asp Glu Leu Thr Val Arg Val Ser Ser Ser Thr Ile
325      330      335
Asn Val Arg His Val Ile Tyr Ser Val Pro Ser Arg Leu Val Gly Gln
340      345      350
Leu Leu Arg Val Arg Leu Trp Asp Asp Arg Leu Ser Cys Tyr Val Gly
355      360      365
Ser Asn Glu Val Met Asn Cys Pro Arg Val Arg Pro Glu Lys Gly Lys
370      375      380
Thr Arg Ala Arg Arg Ile Asp Phe Arg His Val Ile Asp Ser Leu Ala
385      390      395      400
Lys Lys Pro Gly Ala Phe Cys His Ala Thr Leu Arg Asn Asp Ile Leu
405      410      415
Pro Asp Asp Glu Trp Arg Lys Leu Trp Arg Arg Leu Cys Asn His Leu
420      425      430
Glu Pro Glu Met Ala Gly Arg Leu Met Val His Ala Leu Lys Leu Ala
435      440      445
Ala Gly Tyr Asp Asp Ile Ser Val Val Ala Arg Gly Met Glu Gln Met
450      455      460
Leu Asn Thr Pro Gly Glu Leu Asp Leu Asn Arg Leu Met Arg Phe Leu
465      470      475      480

```

Gly Ile Lys Glu Lys Glu Leu Pro Pro Val Ser Val Val Gln His Asn
 485 490 495
 Leu Ser Ser Tyr Glu Gln Leu Leu Arg Gly Lys Gly Gly Leu Gln
 500 505 510

<210> 7326

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 7326

Trp Asn Gly Arg Leu Pro Ser Leu Val Pro Gln Trp Asp Asp Lys Ser
 1 5 10 15
 Ser Leu Ile Glu Arg Ser Ala Ala Ile Met Asn Val Lys Thr Ile Gly
 20 25 30
 Ile Asp Leu Ala Lys Asn Val Phe Gln Ile His Gly Val Asp Glu His
 35 40 45
 Gly Lys Arg Leu Phe Asn Lys Gln Leu Arg Arg Ala Gln Met Ala Ser
 50 55 60
 Phe Phe Ala Asn Ile Pro Pro Cys Leu Ile Gly Met Glu Ala Cys Ala
 65 70 75 80
 Ser Ala His Phe Trp Ala Asn Lys Leu Ile Ser Met Gly His Asn Val
 85 90 95
 Lys Leu Met Ala Pro Gln Phe Val Lys Pro Tyr Val Lys Thr Asn Lys
 100 105 110
 His Asp Ala Ala Asp Ala Glu Ala Ile Cys Glu Ala Val Thr Arg Pro
 115 120 125
 Asn Met Arg Phe Val Pro Val Lys Thr Ala Glu Gln Gln Ala Val Leu
 130 135 140
 Ala Leu His Arg Ser Arg Gln Ser Phe Ile Lys Gln Arg Thr Ala Gln
 145 150 155 160
 Ala Asn Gln Ile Arg Gly Leu Leu Ala Glu Phe Gly Ile Val Val Pro
 165 170 175
 Arg Gly Ile Gln Gln Leu Gln Arg Arg Leu Pro Glu Leu Val Glu Asp
 180 185 190
 Ala Asp Asn Pro Leu Pro Val Leu Phe Arg Thr Gln Leu Ser Leu Leu
 195 200 205
 Gln His His Met Ala Tyr Leu Phe Asp Val Ile Ala Thr Leu Asp Lys
 210 215 220
 Gln Ile Glu Gln Cys Tyr Arg Gln Asn Ala Leu Cys Gln Arg Ile Gly
 225 230 235 240
 Lys Ile Pro Gly Ile Gly Pro Val Thr Ala Ser Ala Leu Ile Ala Thr
 245 250 255
 Ile Gly Lys Ala Asn Asn Phe Glu Asn Gly Arg Gln Leu Ala Ala Trp
 260 265 270
 Leu Gly Leu Val Pro Arg Gln His Ser Ser Gly Gly Lys Gln Val Leu
 275 280 285
 Leu Gly Ile Ser Lys Arg Gly Asp Thr Tyr Leu Arg Thr Leu Leu Ile
 290 295 300
 His Gly Ala Arg Ala Val Leu Gln Ser Ala Lys His Lys Gln Asp Ala
 305 310 315 320
 Val Ser Ser Trp Ala Asn Gln Leu Met Ala Arg Arg Asn Asn Asn Ile
 325 330 335
 Ala Ser Val Ala Leu Ala Asn Lys Asn Ala Arg Thr Val Trp Ala Leu
 340 345 350
 Leu Ala Lys Glu Arg Glu Tyr Cys Ala Pro Ile Ile Ser Ala
 355 360 365

<210> 7327

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 7327

```

Ile Asn Arg Thr Phe Ala Glu Leu Lys Asp Gln Ile Thr His Leu Pro
1      5      10      15
Asp Asn Ala Asp Arg Ser Val Ala Lys Gln Lys Phe Lys Ile Thr Asn
20     25     30
Trp Pro Thr Tyr Asn Lys Ala Leu Ile Asn Arg Gly Ser Ile Thr Phe
35     40     45
Trp Leu Asp Asp Glu Ala Ile Gln Ala Trp Tyr Glu Ser Ala Thr Pro
50     55     60
Ser Ser Arg Gly Arg Pro Gln Arg Tyr Ser Asp Leu Ala Ile Thr Thr
65     70     75     80
Val Leu Val Ile Lys Arg Val Phe Arg Leu Thr Leu Arg Ala Ala Gln
85     90     95
Gly Phe Ile Asp Ser Ile Phe Ser Leu Met Asn Val Pro Leu Arg Cys
100    105    110
Pro Asp Tyr Ser Cys Val Ser Arg Arg Ala Lys Ser Val Asn Val Ser
115    120    125
Phe Lys Thr Pro Thr Arg Gly Glu Ile Ala His Leu Val Ile Asp Ser
130    135    140
Thr Gly Leu Lys Val Phe Gly Glu Gly Glu Trp Lys Val Lys Lys His
145    150    155    160
Gly Gln Glu Arg Arg Arg Ile Trp Arg Lys Leu His Leu Ala Val Asp
165    170    175
Ser Asn Thr His Glu Ile Ile Cys Ala Asp Leu Ser Leu Asn Asn Val
180    185    190
Thr Asp Ser Glu Ala Phe Pro Gly Leu Ile Arg Gln Thr His Arg Lys
195    200    205
Ile Arg Ser Ala Ala Ala Asp Gly Ala Tyr Asp Thr Arg Leu Cys His
210    215    220
Asp Glu Leu Arg Arg Lys Lys Ile Ser Ala Leu Ile Pro Pro Arg Lys
225    230    235    240
Gly Ala Gly Tyr Trp Pro Gly Glu Tyr Ala Asp Arg Asn Arg Ala Val
245    250    255
Ala Asn Gln Arg Met Thr Gly Ser Asn Ala Arg Trp Lys Trp Thr Thr
260    265    270
Asp Tyr Asn Arg Arg Ser Ile Ala Glu Thr Ala Met Tyr Arg Val Lys
275    280    285
Gln Leu Phe Gly Gly Ser Leu Thr Leu Arg Asp Tyr Asp Gly Gln Val
290    295    300
Ala Glu Ala Met Ala Leu Val Arg Ala Leu Asn Lys Met Thr Lys Ala
305    310    315    320
Gly Met Pro Glu Ser Val Arg Ile Ala
325
330

```

<210> 7328

<211> 494

<212> PRT

<213> Enterobacter cloacae

<400> 7328

```

Ser Lys Leu Ser Val Leu Ile Tyr Leu Lys Asp Ile Ile Pro Glu Arg
1      5      10      15
Val Trp Met Lys Arg Tyr Thr His Asp Leu Glu Thr Asp Leu Asn Asp
20     25     30
Val Asp Lys Thr Pro Ser Leu Ile His Lys Thr Leu Leu Thr Ala Ser
35     40     45
Thr Ile Tyr Asp Leu Lys Tyr Leu Ala Gln Val Leu Asn Asp Glu Asn
50     55     60
Gly Ser Asn Trp Ser Arg Ala Ser Leu Lys Arg Gln Val Thr Cys Ile

```

65 70 75 80
 Pro Glu His Cys Asp Leu Ser Ile Ala Asp Gly Arg Tyr Leu Gln Thr
 85 90 95
 Leu Ile Pro Ser Arg Pro Ala Asp Tyr Glu Asp Arg His Phe Ser Phe
 100 105 110
 Ile Asp Leu Phe Ala Gly Ile Gly Gly Leu Arg Ser Gly Phe Asp Ala
 115 120 125
 Ile Gly Gly Lys Cys Leu Phe Thr Ser Glu Trp Asn Thr Tyr Ser Ser
 130 135 140
 Arg Thr Tyr Arg Ala Asn Trp Tyr Cys Asp Glu Asn Glu His Arg Phe
 145 150 155 160
 Asn Ser Asp Ile Arg Asp Ile Thr Leu Ser Asn Arg Pro Glu Val Thr
 165 170 175
 Asp Asp Glu Ala Tyr Lys Phe Ile Asp Ala Ser Ile Pro Asp His Asp
 180 185 190
 Val Leu Leu Ala Gly Phe Pro Cys Gln Pro Phe Ser Ile Ala Gly Val
 195 200 205
 Ser Lys Lys Asn Ser Met Gly Arg Lys His Gly Phe Glu Cys Asp Thr
 210 215 220
 Gln Gly Thr Leu Phe Phe Asp Val Ala Arg Ile Ile Arg Ala Lys Gln
 225 230 235 240
 Pro Ala Ile Phe Val Leu Glu Asn Val Lys Asn Leu Lys Ser His Asp
 245 250 255
 Lys Gly Asn Thr Phe Asn Ile Ile Met Lys Thr Leu Asp Glu Leu Gly
 260 265 270
 Tyr Asp Val Ala Asn Ser Glu Ser Thr Gly Ala Asp Asp Pro Lys Val
 275 280 285
 Ile Asp Gly Arg His Phe Arg Pro Gln His Arg Glu Arg Ile Val Leu
 290 295 300
 Ile Gly Phe Arg Arg Asp Leu Arg Leu Lys Asp Gly Phe Thr Leu Arg
 305 310 315 320
 Asp Ile Lys Asp Phe Tyr Pro Asp Lys Arg Pro Ser Leu Ser Asp Leu
 325 330 335
 Leu Asp Pro Ser Val Asp Ser Lys Tyr Ile Leu Ser Pro Lys Leu Trp
 340 345 350
 Glu Tyr Leu Tyr Asn Tyr Ala Lys Lys His Ala Ala Lys Gly Asn Gly
 355 360 365
 Phe Gly Phe Gly Leu Val Asp Pro Ser Asn Val Asn Ser Val Thr Arg
 370 375 380
 Thr Leu Ser Ser Arg Tyr Met Lys Asp Gly Ser Glu Ile Leu Ile Asp
 385 390 395 400
 Arg Gly Trp Ser His Glu Leu Gly Glu Thr Asp Phe His Asn Thr Tyr
 405 410 415
 Asn Met Asp Arg Arg Pro Arg Met Leu Thr Pro Arg Glu Cys Ser Arg
 420 425 430
 Leu Met Gly Phe Asp Lys Pro Gly Glu Ser Val Phe Arg Ile Pro Val
 435 440 445
 Ser Asn Thr Gln Ala Tyr Arg Gln Phe Gly Asn Ser Val Val Val Asp
 450 455 460
 Val Phe Ala Ala Val Ala Lys Leu Leu Lys Ser Arg Ile Glu Phe Ala
 465 470 475 480
 Ala Ser Gln Arg Leu Arg Gln Phe Tyr Asp Glu Val Ser
 485 490

<210> 7329

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 7329

Ala Val Ala Ala Trp Lys Arg Arg Ser Ala Val Ser Asn Ile His His

```

1          5          10          15
Leu Glu Arg Ser Leu Arg Lys Leu Arg Leu Thr Arg Val Gly Ala Glu
20          25          30
Trp His Ala Leu Glu Lys Arg Ala Leu Ala Glu Gly Trp Thr Pro Ser
35          40          45
Arg Tyr Leu Leu Thr Leu Cys Asn Glu Glu Leu Leu Trp Arg Glu Ser
50          55          60
Glu Lys Leu Arg Arg Tyr Lys Lys Glu Ala Arg Leu Pro Val Ala Lys
65          70          75          80
Thr Leu Gly Glu Tyr Asp Phe Ala Gln Val Pro Glu Leu Asn Ala Ala
85          90          95
Gln Phe Arg Gln Leu Cys Glu Thr Thr Asp Trp Val Asp Ala Gly Glu
100          105          110
Asn Val Leu Leu Phe Gly Ala Ser Gly Leu Gly Lys Ser His Leu Ala
115          120          125
Ala Ala Ile Val Asp Gly Val Val Gly Gln Gly Tyr Arg Ala Arg Phe
130          135          140
Tyr Ser Ala Gly Glu Leu Leu Gln Glu Leu Arg Lys Ala Arg Ala Gln
145          150          155          160
Leu Lys Leu Asn Glu Leu Leu Leu Lys Leu Asp Arg Tyr Arg Val Ile
165          170          175
Val Val Asp Asp Leu Gly Tyr Val Lys Arg Asp Asn Ala Glu Thr Gly
180          185          190
Val Leu Phe Glu Leu Ile Ala His Arg Tyr Glu Arg Gly Ser Leu Val
195          200          205
Ile Thr Ser Asn His Pro Phe Ser Thr Trp Gly Ser Ile Phe Val Asp
210          215          220
Glu Thr Met Ala Val Ala Ala Ala Asp Arg Leu Ile His His Gly Tyr
225          230          235          240
Met Phe Glu Leu Lys Gly Glu Ser Tyr Arg Lys Lys Thr Ala Lys Ala
245          250          255
Val Thr Ser Ala Thr
260

```

<210> 7330

<211> 377

<212> PRT

<213> Enterobacter cloacae

<400> 7330

```

Pro Arg Met Ile Leu Met Asn Glu Phe Thr Thr Leu Leu Gln Gln Gly
1          5          10          15
Asn Ala Trp Phe Phe Ile Pro Ser Ala Ile Leu Leu Gly Ala Leu His
20          25          30
Gly Leu Glu Pro Gly His Ser Lys Thr Met Met Ala Ala Phe Ile Ile
35          40          45
Ala Ile Lys Gly Thr Val Arg Gln Ala Val Met Leu Gly Val Ala Ala
50          55          60
Thr Leu Ser His Thr Ala Val Val Trp Leu Ile Ala Phe Gly Gly Met
65          70          75          80
Tyr Ile Ser Asn Lys Phe Thr Ala Glu Ser Ala Glu Pro Trp Leu Gln
85          90          95
Met Val Ser Ser Val Ile Ile Leu Gly Thr Ala Phe Trp Met Phe Trp
100          105          110
Arg Thr Trp Ser Gly Glu Lys Asn Trp Leu Glu Gly Met Gln Glu Asn
115          120          125
Glu His His His His Asp Glu Thr Arg Leu Ile Asp Thr Gly His Gly
130          135          140
Lys Val Glu Leu Ser Ile Phe Glu Glu Gly Gln Leu Pro His Trp Arg
145          150          155          160
Leu Arg Thr Leu Ser Gly Gln Arg Trp Ala Ser Glu Asp Ile Ser Leu

```

19. *How often do you use the following services?*

Val Val Asp Asn Ala Thr Val Leu Ala Asn Ala Phe Ala Met Ser Glu

```

      210              215              220
Leu Thr Ile Gly Leu Thr Val Ile Ala Ile Gly Thr Ser Leu Pro Glu
225              230              235              240
Leu Ala Thr Ala Ile Ala Gly Ala Arg Lys Gly Glu Asp Asp Ile Ala
      245              250              255
Ile Gly Asn Ile Ile Gly Ser Asn Ile Phe Asn Ile Ala Ile Val Thr
      260              265              270
Gly Leu Pro Ala Leu Ile Ser Pro Gly Pro Phe Asn Pro Met Val Phe
      275              280              285
Thr Arg Asp Tyr Gly Val Met Leu Leu Val Ser Val Ile Phe Ala Leu
      290              295              300
Leu Cys Trp Arg Arg Lys Glu Gln Ile Gly Lys Gly Ala Gly Ala Leu
      305              310              315              320
Leu Thr Gly Gly Phe Ile Val Trp Leu Ala Met Leu Tyr Trp Leu Ser
      325              330              335
Pro Leu Leu Ser Gly
      340

```

<210> 7332

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 7332

```

Ser Ala Ala Arg Trp Arg Ser Val Met Lys Asp Lys Thr Met Ser Asn
1              5              10              15
Ala Gly Ala Ser Leu Ala Thr Cys Tyr Gly Pro Val Ser Ala His Met
      20              25              30
Met Ser Lys Ala Glu Asn Ile Arg Leu Leu Ile Leu Asp Val Asp Gly
      35              40              45
Val Leu Ser Asp Gly Leu Ile Tyr Met Gly Asn Asn Gly Glu Glu Leu
      50              55              60
Lys Ala Phe Asn Val Arg Asp Gly Tyr Gly Ile Arg Cys Ala Leu Thr
      65              70              75              80
Ser Gly Ile Glu Val Ala Ile Ile Thr Gly Arg Lys Ala Lys Leu Val
      85              90              95
Glu Asp Arg Cys Glu Thr Leu Gly Ile Thr His Leu Tyr Gln Gly Gln
      100              105              110
Ser Asp Lys Met Val Ala Phe Arg Asp Leu Leu Gly Lys Leu Ala Ile
      115              120              125
Ala Pro Glu Asn Val Ala Tyr Val Gly Asp Asp Leu Ile Asp Trp Pro
      130              135              140
Val Met Ala Glu Val Gly Leu Ser Ile Ala Val Ala Asp Ala His Pro
      145              150              155              160
Leu Leu Ile Pro Arg Ala Asp Tyr Val Thr His Ile His Gly Gly Arg
      165              170              175              180
Gly Ala Val Arg Glu Val Cys Asp Leu Leu Leu Ala Gln Gly Lys
      185              190
Leu Asp Glu Ala Lys Gly Gln Ser Ile
      195              200

```

<210> 7333

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 7333

```

Leu Lys Arg Leu Glu Pro Pro Met Lys Phe Lys Thr Asn Lys Leu Ser
1              5              10              15
Leu Lys Val Val Ile Ala Ser Ala Leu Leu Ala Ala Ser Leu Pro Ala
      20              25              30

```

Leu Ala Val Thr Gly Asp Thr Glu Gln Pro Ile His Ile Glu Ser Asp
 35 40 45
 Thr Gln Ser Leu Asp Met Gln Gly Asn Val Val Thr Phe Thr Gly Asn
 50 55 60
 Val Val Val Thr Gln Gly Thr Ile Lys Ile Asn Ala Asp Lys Val Val
 65 70 75 80
 Val Thr Arg Pro Gly Gly Glu Gln Gly Lys Glu Ile Ile Asp Gly Tyr
 85 90 95
 Gly Asn Pro Ala Thr Phe Tyr Gln Met Gln Asp Asn Gly Lys Pro Val
 100 105 110
 Lys Gly His Ala Ser His Met His Tyr Glu Leu Ala Lys Asp Leu Val
 115 120 125
 Ile Leu Thr Gly Asn Val Tyr Leu Glu Gln Leu Asp Ser Asn Ile Lys
 130 135 140
 Gly Asp Lys Ile Thr Tyr Leu Val Lys Glu Gln Lys Met Gln Ala Ser
 145 150 155 160
 Ser Glu Lys Gly Lys Arg Val Thr Thr Val Leu Val Pro Ser Gln Leu
 165 170 175
 Gln Asp Lys Asn Asn Gly Gln Ala Pro Ala Lys Lys Lys Ser Asn
 180 185 190

<210> 7334

<211> 244

<212> PRT

<213> Enterobacter cloacae

<400> 7334

Phe Val Met Ala Thr Leu Thr Ala Lys Asn Leu Ala Lys Ala Tyr Lys
 1 5 10 15
 Gly Arg Arg Val Val Glu Asp Val Ser Leu Thr Val Asn Ser Gly Glu
 20 25 30
 Ile Val Gly Leu Leu Gly Pro Asn Gly Ala Gly Lys Thr Thr Thr Phe
 35 40 45
 Tyr Met Val Val Gly Ile Val Pro Arg Asp Ala Gly Asn Ile Ile Ile
 50 55 60
 Asp Asp Glu Asp Ile Ser Leu Leu Pro Leu His Ala Arg Ala Arg Arg
 65 70 75 80
 Gly Ile Gly Tyr Leu Pro Gln Glu Ala Ser Ile Phe Arg Arg Leu Ser
 85 90 95
 Val Phe Asp Asn Leu Met Ala Val Leu Gln Ile Arg Asp Asp Leu Thr
 100 105 110
 Ser Glu Gln Arg Thr Asp Arg Ala Asn Glu Leu Met Glu Glu Phe His
 115 120 125
 Ile Glu His Leu Arg Asp Ser Leu Gly Gln Ala Leu Ser Gly Gly Glu
 130 135 140
 Arg Arg Arg Val Glu Ile Ala Arg Ala Leu Ala Ala Asn Pro Lys Phe
 145 150 155 160
 Ile Leu Leu Asp Glu Pro Phe Ala Gly Val Asp Pro Ile Ser Val Ile
 165 170 175
 Asp Ile Lys Arg Ile Ile Glu His Leu Arg Asp Ser Gly Leu Gly Val
 180 185 190
 Leu Ile Thr Asp His Asn Val Arg Glu Thr Leu Ala Val Cys Glu Arg
 195 200 205
 Ala Tyr Ile Val Ser Gln Gly His Leu Ile Ala His Gly Thr Pro Gln
 210 215 220
 Gln Ile Leu Glu Asp Glu His Val Lys Arg Val Tyr Leu Gly Glu Asp
 225 230 235 240
 Phe Arg Leu

<210> 7335

<211> 139

<212> PRT

<213> *Enterobacter cloacae*

<400> 7335

```

Pro Pro Cys Cys Pro Ile Arg Val Leu Trp Trp His Val Val Leu Ser
1          5          10          15
Arg Ser Ile Glu Ser Leu Tyr Pro Phe Arg Arg Leu Thr Ser Val Asn
          20          25          30
Asn Trp Phe Asp Thr Thr Asp Lys Glu Asp Thr Met Gln Leu Asn Ile
          35          40          45
Thr Gly His Asn Val Glu Ile Thr Glu Ala Leu Arg Asp Phe Val Asn
          50          55          60
Thr Lys Phe Ala Lys Leu Glu Gln Tyr Phe Glu Arg Ile Asn Gln Val
65          70          75          80
Tyr Val Val Leu Lys Val Glu Lys Val Thr His Ile Ser Asp Ala Thr
          85          90          95
Leu His Val Asn Gly Gly Glu Leu His Ala Ser Ala Glu Gly Gln Asp
          100          105          110
Met Tyr Ala Ala Ile Asp Gly Leu Ile Asp Lys Leu Ala Arg Gln Leu
          115          120          125
Asn Lys His Lys Asp Lys Leu Lys Gln His
          130          135

```

<210> 7336

<211> 124

<212> PRT

<213> *Enterobacter cloacae*

<400> 7336

```

Thr Ser Phe Gly Leu His Cys Arg Thr Ala Gly Arg Leu Leu Pro Leu
1          5          10          15
Thr Arg Lys Glu Arg Ser Val Pro Ser Ser His Ala Gly Lys Thr Gln
          20          25          30
Asn Met Thr Val Lys Gln Thr Val Glu Ile Thr Asn Lys Leu Gly Met
          35          40          45
His Ala Arg Pro Ala Met Lys Leu Phe Glu Leu Met Gln Gly Phe Asp
          50          55          60
Ala Glu Val Leu Leu Arg Asn Asp Glu Gly Thr Glu Ala Glu Ala Asn
65          70          75          80
Ser Val Ile Ala Leu Leu Met Leu Asp Ser Ala Lys Gly Arg Gln Ile
          85          90          95
Glu Val Glu Ala Thr Gly Pro Gln Glu Glu Glu Ala Leu Ala Ala Val
          100          105          110
Ile Ala Leu Phe Asn Ala Gly Phe Asp Glu Asp
          115          120

```

<210> 7337

<211> 297

<212> PRT

<213> *Enterobacter cloacae*

<400> 7337

```

Arg Arg Trp Pro Arg Ile Arg Pro Ala Pro Trp Val Lys Thr Gly Gly
1          5          10          15
Gly Lys Arg Ile Arg Pro Met Ile Ala Ile Leu Ala Ala Arg Ala Val
          20          25          30
Gly Tyr Gln Gly Asn Ala His Val Thr Ile Ala Ala Leu Ile Glu Phe
          35          40          45
Ile His Thr Ala Thr Leu Leu His Asp Asp Val Val Asp Glu Ser Asp
          50          55          60

```

```

Met Arg Arg Gly Lys Ala Thr Ala Asn Ala Ala Phe Gly Asn Ala Ala
65      70      75      80
Ser Val Leu Val Gly Asp Phe Ile Tyr Thr Arg Ala Phe Gln Met Met
85      90      95
Thr Ser Leu Gly Ser Leu Lys Val Leu Glu Val Met Ser Glu Ala Val
100     105     110
Asn Val Ile Ala Glu Gly Glu Val Leu Gln Leu Met Asn Val Asn Asp
115     120     125
Pro Asp Ile Thr Glu Glu Asn Tyr Met Arg Val Ile Tyr Ser Lys Thr
130     135     140
Ala Arg Leu Phe Glu Ala Ala Gln Cys Ser Gly Ile Leu Ala Gly
145     150     155     160
Cys Ser Glu Ala Glu Lys Gly Leu Gln Asp Tyr Gly Arg Tyr Leu
165     170     175
Gly Thr Ala Phe Gln Leu Ile Asp Asp Leu Leu Asp Tyr Ser Ala Asp
180     185     190
Gly Glu Thr Leu Gly Lys Asn Val Gly Asp Asp Leu Asn Glu Gly Lys
195     200     205
Pro Thr Leu Pro Leu Leu His Ala Met Arg Asn Gly Thr Pro Glu Gln
210     215     220
Ala Lys Met Ile Arg Glu Ala Ile Glu Gln Gly Asn Gly Arg His Leu
225     230     235     240
Leu Glu Pro Val Leu Glu Thr Met Ala Ile Cys Gly Ser Leu Glu Trp
245     250     255
Thr Arg Gln Arg Ala Glu Glu Glu Ala Asp Lys Ala Ile Ala Ala Ile
260     265     270
Gln Val Ile Pro Asp Ser Pro Trp Arg Asp Ala Leu Ile Gly Leu Ala
275     280     285
His Ile Ala Val Gln Arg Asp Arg
290     295

```

<210> 7338

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 7338

```

Cys Cys Leu Phe Thr Arg Asn Asp Val Asp Asp Asn Glu His Lys Asp
1      5      10      15
Ser Ile Met Asp Thr Lys Phe Ile Asp Trp His Ser Ala Asp Ile Ile
20     25     30
Ala Ala Leu Arg Lys Lys Gly Thr Ser Leu Ala Ala Glu Ser Arg Arg
35     40     45
His Gly Leu Ser Ser Ser Thr Leu Ala Asn Ala Leu Thr Arg Pro Trp
50     55     60
Pro Lys Gly Glu Leu Ile Ile Ala Thr Ala Leu Asp Thr His Pro Trp
65     70     75     80
Val Ile Trp Pro Ser Arg Tyr His Asp Pro Ile Thr His Glu Phe Ile
85     90     95
Asp Arg Thr Arg Met Met Arg Gln Ser Lys Thr Lys Lys Ala His Gln
100    105    110
Asp

```

<210> 7339

<211> 354

<212> PRT

<213> Enterobacter cloacae

<400> 7339

```

Arg Val Asp Leu Ser Tyr Gly Trp Arg Cys Cys Thr Gly Ser Arg His

```

```

1           5           10           15
Phe Ser Leu Gly Lys Arg Lys Arg Ile Met Ser Gln Ile Glu Leu Gln
                20
Pro Gly Phe Asp Phe Gln Lys Ala Gly Lys Asp Val Leu Glu Ile Glu
                35
Arg Glu Gly Leu Ala Gln Leu Asp Gln Tyr Ile Asn Gln Asp Phe Ser
                50
Leu Ala Cys Glu Lys Met Phe Tyr Cys Ala Gly Lys Val Val Val Met
                65
Gly Met Gly Lys Ser Gly His Ile Gly Arg Lys Met Ala Ala Thr Phe
                85
Ala Ser Thr Gly Thr Ser Ser Phe Phe Val His Pro Gly Glu Ala Ala
                100
His Gly Asp Leu Gly Met Val Thr Pro Gln Asp Val Val Ile Ala Leu
                115
Ser Asn Ser Gly Glu Ser Asn Glu Ile Leu Ala Leu Ile Pro Val Leu
                130
Lys Arg Leu His Val Pro Leu Ile Cys Met Thr Ser Arg Pro Glu Ser
                145
Ser Met Ala Arg Ala Ala Asp Ile His Leu Cys Val Lys Val Pro Lys
                165
Glu Ala Cys Pro Leu Gly Leu Ala Pro Thr Ser Ser Thr Thr Ala Ala
                180
Leu Val Met Gly Asp Ala Leu Ala Val Ala Leu Leu Glu Ala Arg Gly
                195
Phe Thr Pro Glu Asp Phe Ala Leu Ser His Pro Gly Gly Ala Leu Gly
                210
Arg Lys Leu Leu Leu Arg Val Asn Asp Ile Met His Thr Gly Asp Glu
                225
Ile Pro His Val Ser Lys Glu Ala Ser Leu Arg Asp Ala Leu Leu Glu
                245
Ile Thr Arg Lys Asn Leu Gly Met Thr Val Ile Cys Asp Asp Leu Met
                260
Lys Ile Gln Gly Ile Phe Thr Asp Gly Asp Leu Arg Arg Val Phe Asp
                275
Met Gly Val Asp Val Arg Thr Leu Gly Ile Ala Asp Val Met Thr Pro
                290
Gly Gly Ile Arg Val Arg Pro Gly Thr Leu Ala Val Asp Val Leu Asn
                305
Leu Met Gln Ser Arg His Ile Thr Ser Val Met Val Ala Asp Gly Asp
                325
Gln Leu Leu Gly Val Val His Met His Asp Leu Leu Arg Ala Gly Val
                340
Val
                345
                350

```

<210> 7340

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 7340

```

Arg Leu Gly Glu Ile Met Ile Asn Asn Asp Ser Ala Leu Gln Leu Ser
1           5           10           15
Asn Val Leu Asn Gln Asp Cys Thr Arg Ser Gly Val His Cys Gln Ser
                20
Lys Lys Arg Ala Leu Glu Ile Ile Ser Glu Leu Ala Ala Lys Gln Leu
                35
Gly Leu Pro Pro Gln Ile Val Phe Glu Ala Ile Leu Thr Arg Glu Lys
                50
Met Gly Ser Thr Gly Ile Gly Asn Gly Ile Ala Ile Pro His Gly Lys
                55
                60

```

65 70 75 80
 Leu Glu Glu Asp Thr Leu Arg Ala Val Gly Val Phe Val Gln Leu Glu
 85 90 95
 Thr Pro Ile Ala Phe Asp Ala Ile Asp Asn Gln Pro Val Asp Leu Leu
 100 105 110
 Phe Ala Leu Leu Val Pro Ala Asp Gln Thr Lys Thr His Leu His Thr
 115 120 125
 Leu Ser Leu Val Ala Lys Arg Leu Ala Asp Lys Thr Ile Cys Arg Arg
 130 135 140
 Leu Arg Ser Ala Gln Ser Asp Glu Glu Leu Tyr Gln Ile Ile Thr Glu
 145 150 155 160
 Ala Glu Gly Asn Gln Asp Glu Ala
 165

<210> 7341

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 7341

Ser Gly Lys Gly Leu Gln Asn Gly Cys Pro Glu Glu Lys Arg Asn Met
 1 5 10 15
 Val Leu Met Ile Val Ser Gly Arg Ser Gly Ser Gly Lys Ser Val Ala
 20 25 30
 Leu Arg Ala Leu Glu Asp Met Gly Phe Tyr Cys Val Asp Asn Leu Pro
 35 40 45
 Val Val Leu Leu Pro Asp Leu Ala Arg Thr Leu Ala Asp Arg Gln Ile
 50 55 60
 Ser Ala Ala Val Ser Ile Asp Val Arg Asn Met Pro Glu Ser Pro Glu
 65 70 75 80
 Ile Phe Glu Gln Ala Met Asn Ser Leu Pro Glu Cys Phe Ser Pro Gln
 85 90 95
 Leu Leu Phe Leu Asp Ala Asp Arg Asn Thr Leu Ile Arg Arg Tyr Ser
 100 105 110
 Asp Thr Arg Arg Leu His Pro Leu Ser Ser Lys Asn Leu Ser Leu Glu
 115 120 125
 Ser Ala Ile Asp Lys Glu Ser Asp Leu Leu Glu Pro Leu Arg Ser Arg
 130 135 140
 Ala Asp Leu Ile Val Asp Thr Ser Glu Met Ser Val His Glu Leu Ala
 145 150 155 160
 Glu Met Leu Arg Thr Arg Leu Leu Gly Lys Arg Glu Arg Glu Leu Thr
 165 170 175
 Met Val Phe Glu Ser Phe Gly Phe Lys His Gly Ile Pro Ile Asp Ala
 180 185 190
 Asp Tyr Val Phe Asp Val Arg Phe Leu Pro Asn Pro His Trp Asp Pro
 195 200 205
 Lys Leu Arg Pro Met Thr Gly Leu Asp Lys Pro Val Ala Ala Phe Leu
 210 215 220
 Asp Arg His Thr Glu Val His Asn Phe Ile Tyr Gln Thr Arg Ser Tyr
 225 230 235 240
 Leu Glu Leu Trp Leu Pro Met Leu Glu Thr Asn Asn Arg Ser Tyr Leu
 245 250 255
 Thr Val Ala Ile Gly Cys Thr Gly Gly Lys His Arg Ser Val Tyr Ile
 260 265 270
 Ala Glu Gln Leu Ala Asp Tyr Phe Arg Ser Arg Gly Lys Asn Val Gln
 275 280 285
 Ser Arg His Arg Thr Leu Glu Lys Arg Lys Thr
 290 295 300

<210> 7342

<211> 198

<212> PRT

<213> *Enterobacter cloacae*

<400> 7342

Gly Glu Arg Ala Ile Asp Met Ser Lys Thr Arg Arg Trp Val Ile Ile
 1 5 10 15
 Leu Leu Ala Leu Val Ala Leu Ile Leu Ile Gly Val Asn Leu Ala Asp
 20 25 30
 Arg Asp Asp Thr Gln Ala Glu Val Val Asn Thr Ser Asp Pro Thr Tyr
 35 40 45
 Lys Ser Asp His Ser Asp Thr Val Val Tyr Ser Pro Glu Gly Ala Leu
 50 55 60
 Asn Tyr Arg Leu Val Ala Gln His Val Glu Tyr Phe Ser Asp Asp Gly
 65 70 75 80
 Thr Ser Trp Phe Thr Gln Pro Val Leu Thr Thr Phe Asp Thr Asp Lys
 85 90 95
 Val Pro Thr Trp Ser Ile Lys Ser Asp Arg Ala Lys Leu Thr Asn Asp
 100 105 110
 Arg Met Leu Tyr Leu Tyr Gly His Val Glu Val Asn Ala Leu Thr Ala
 115 120 125
 Asp Ala Gln Leu Arg Lys Ile Thr Thr Asp Asn Ala Gln Ile Asn Leu
 130 135 140
 Val Thr Gln Asp Val Thr Ser Gln Asp Leu Val Thr Leu Tyr Gly Thr
 145 150 155 160
 Thr Phe Asn Ser Ser Gly Leu Arg Met Arg Gly Asn Leu Arg Ser Lys
 165 170 175
 Asn Ala Glu Leu Ile Glu Lys Val Arg Thr Ser Tyr Glu Ile Gln Asn
 180 185 190
 Lys Gln Thr Gln Pro
 195

<210> 7343

<211> 491

<212> PRT

<213> *Enterobacter cloacae*

<400> 7343

Arg Leu Ser His Ala Glu Pro Glu Lys Asn Ala Leu Asn Met Lys Gln
 1 5 10 15
 Gly Leu Gln Leu Arg Leu Ser Gln Gln Leu Ala Met Thr Pro Gln Leu
 20 25 30
 Gln Gln Ala Ile Arg Leu Leu Gln Leu Ser Thr Leu Glu Leu Gln Gln
 35 40 45
 Glu Leu Gln Gln Ala Leu Asp Ser Asn Pro Leu Leu Glu Gln Thr Asp
 50 55 60
 Leu His Asp Glu Val Asp Ala Gln Gln Thr Gln Asp Thr Glu Thr Leu
 65 70 75 80
 Asp Ser Val Asp Ala Leu Glu Gln Lys Glu Met Pro Asp Glu Leu Pro
 85 90 95
 Leu Asp Ala Ser Trp Asp Glu Ile Tyr Thr Ala Gly Thr Pro Ser Gly
 100 105 110
 Thr Arg Ala Asp Tyr Gln Asp Asp Glu Leu Pro Val Tyr Gln Gly Glu
 115 120 125
 Thr Thr Gln Ser Leu Gln Asp Tyr Leu Met Trp Gln Val Glu Leu Thr
 130 135 140
 Pro Phe Ser Asp Thr Asp Arg Ala Ile Ala Thr Ser Ile Val Asp Ala
 145 150 155 160
 Val Asp Asp Thr Gly Tyr Leu Thr Val Thr Leu Asp Glu Ile Leu Glu
 165 170 175
 Ser Ile Gly Asp Asp Glu Ile Glu Glu Glu Ile Glu Ala Val Leu
 180 185 190

Lys Arg Val Gln Arg Phe Asp Pro Ile Gly Val Ala Ala Lys Asp Leu
 195 200 205
 Arg Asp Cys Leu Leu Ile Gln Leu Ser Gln Phe Ala Lys Glu Thr Pro
 210 215 220
 Trp Ile Asp Glu Ala Arg Leu Ile Ile Ser Asp His Leu Asp Leu Leu
 225 230 235 240
 Ala Asn His Asp Phe Arg Thr Leu Met Arg Val Thr Arg Leu Lys Glu
 245 250 255
 Glu Val Leu Lys Glu Ala Val Asn Leu Ile Gln Ser Leu Asp Pro Arg
 260 265 270
 Pro Gly Gln Ser Ile Gln Thr Ser Glu Pro Glu Tyr Val Ile Pro Asp
 275 280 285
 Val Leu Val Arg Lys His Asn Gly Arg Trp Val Val Glu Leu Asn Ala
 290 295 300
 Asp Ser Ile Pro Arg Leu Gln Ile Asn Gln Gln Tyr Ala Ser Met Cys
 305 310 315 320
 Thr Ser Ala Arg Asn Asp Ala Asp Asn Gln Tyr Ile Arg Ser Asn Leu
 325 330 335
 Gln Glu Ala Arg Trp Leu Ile Lys Ser Leu Glu Ser Arg Asn Asp Thr
 340 345 350
 Leu Leu Arg Val Ser Arg Cys Ile Val Glu Gln Gln Gln Ala Phe Phe
 355 360 365
 Glu Gln Gly Glu Glu Phe Met Lys Pro Met Val Leu Ala Asp Ile Ala
 370 375 380
 Gln Ala Val Glu Met His Glu Ser Thr Ile Ser Arg Val Thr Thr Gln
 385 390 395 400
 Lys Tyr Leu His Ser Pro Arg Gly Ile Phe Glu Leu Lys Tyr Phe Phe
 405 410 415
 Ser Ser His Val Asn Thr Glu Gly Gly Glu Ala Ser Ser Thr Ala
 420 425 430
 Ile Arg Ala Leu Val Lys Lys Leu Ile Ala Ala Glu Asn Pro Ala Lys
 435 440 445
 Pro Leu Ser Asp Ser Lys Leu Thr Thr Met Leu Ser Asp Gln Gly Ile
 450 455 460
 Met Val Ala Arg Arg Thr Val Ala Lys Tyr Arg Glu Ser Leu Ser Ile
 465 470 475 480
 Pro Pro Ser Asn Gln Arg Lys Gln Leu Val
 485 490

<210> 7344

<211> 277

<212> PRT

<213> Enterobacter cloacae

<400> 7344

Ile Asp Leu Ser Ala Asp Ser Gly Ser Ser Leu Met Lys Thr Pro Val
 1 5 10 15
 Met Gln Val Ala Leu Ser Val Met Lys Thr Ala Ile Pro Leu Val Leu
 20 25 30
 Leu Thr Met Ala Ile Gly Glu Trp Val Ala Pro Gln Gly Glu Gln Met
 35 40 45
 Ala Arg Asn Tyr Arg Ala Gln Ala Met Tyr Gly Gly Ser Leu Leu Ser
 50 55 60
 Thr Gln Gln Gly Leu Trp Ala Lys Asp Gly Gln Asn Phe Val Tyr Ile
 65 70 75 80
 Glu Arg Val Lys Gly Asp Asp Glu Leu Gly Gly Val Ser Ile Tyr Ala
 85 90 95
 Phe Asn Asn Asp Arg Arg Leu Gln Ser Val Arg Tyr Ala Ala Ser Ala
 100 105 110
 Lys Phe Asp Ala Asn Asn Lys Leu Trp Arg Leu Ser Gln Val Asp Glu
 115 120 125

Ser Asp Leu Thr Asn Pro Lys Gln Ile Thr Gly Ser Gln Thr Val Ser
 130 135 140
 Gly Thr Trp Lys Thr Asn Leu Thr Pro Asp Lys Leu Gly Val Val Ala
 145 150 155 160
 Leu Asp Pro Asp Ala Leu Ser Ile Ser Gly Leu His Asn Tyr Val Lys
 165 170 175
 Tyr Leu Lys Ser Ser Gly Gln Asp Ala Gly Arg Tyr Gln Leu Asn Met
 180 185 190
 Trp Ser Lys Ile Phe Gln Pro Leu Ser Val Ala Val Met Met Leu Met
 195 200 205
 Ala Leu Ser Phe Ile Phe Gly Pro Leu Arg Ser Val Pro Met Gly Val
 210 215 220
 Arg Val Val Thr Gly Ile Ser Phe Gly Phe Val Phe Tyr Val Leu Asp
 225 230 235 240
 Gln Ile Phe Gly Pro Leu Thr Leu Val Tyr Gly Ile Pro Pro Ile Ile
 245 250 255
 Gly Ala Leu Leu Pro Ser Ala Ser Phe Phe Leu Ile Ser Leu Trp Met
 260 265 270
 Leu Leu Lys Arg Ser
 275

<210> 7345

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7345

Lys Ile Lys Lys Ser Thr Ser Arg Pro Glu Trp Thr Met Cys Ser Ala
 1 5 10 15
 Ser Arg Trp Arg Tyr Leu Pro Leu Thr Ala Met Ile Lys Lys Phe Trp
 20 25 30
 Asp Thr Cys Asp Glu Glu Glu Ser Thr Met Thr Ser Val Asp Ser Ala
 35 40 45
 Lys Ala Gln Thr Ile Leu Asp Thr Ala Met Leu Glu Gln Tyr Ile Asp
 50 55 60
 Leu Val Gly Pro Lys Leu Ile Thr Asp Gly Leu Ala Val Phe Glu Lys
 65 70 75 80
 Met Met Pro Gly Tyr Leu Asn Val Leu Glu Ser Asn Leu Thr Ala Arg
 85 90 95
 Asp Gln Lys Gly Ile Val Glu Glu Gly His Lys Ile Lys Gly Ala Ala
 100 105 110
 Gly Ser Val Gly Leu Arg His Leu Gln Gln Leu Gly Gln Ile Gln
 115 120 125
 Ser Pro Asp Leu Pro Ala Trp Glu Asp Asn Val Gly Asp Trp Val Glu
 130 135 140
 Glu Met Lys Gln Glu Trp Gln Asn Asp Val Ala Val Leu Lys Ala Trp
 145 150 155 160
 Val Asp Ala Arg Lys Lys
 165

<210> 7346

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 7346

Lys Ala Gly Gly Gln Ser Ala Gly Ser Tyr Arg Met Ser Arg Lys Leu
 1 5 10 15
 Ser Pro Gly Gly Trp Leu Lys Arg Ile Leu Leu Arg Ile Val Leu Val
 20 25 30
 Leu Ala Val Phe Trp Gly Gly Gly Ile Ala Leu Phe Ser Ile Leu Pro

```

      35              40              45
Val Pro Phe Ser Ala Val Met Ala Glu Arg Gln Ile Ser Ala Trp Leu
50              55              60
Ser Gly Asp Phe Gly Tyr Val Ala His Ser Asp Trp Val Gly Met Asp
65              70              75              80
Glu Ile Ser Pro Trp Met Gly Leu Ala Val Ile Ala Ala Glu Asp Gln
85              90              95
Lys Phe Pro Glu His Trp Gly Phe Asp Val Ala Ala Ile Glu Lys Ala
100             105             110
Leu Asp His Asn Glu Arg His Glu Asn Arg Val Arg Gly Ala Ser Thr
115             120             125
Leu Ser Gln Gln Thr Val Lys Asn Leu Phe Leu Trp Asp Gly Arg Ser
130             135             140
Trp Val Arg Lys Gly Leu Glu Ala Gly Leu Thr Leu Gly Val Glu Thr
145             150             155             160
Val Trp Ser Lys Lys Arg Ile Leu Thr Val Tyr Leu Asn Ile Ala Glu
165             170             175
Phe Gly Asp Gly Val Phe Gly Val Glu Ala Ala Ser Gln Arg Tyr Phe
180             185             190
Gly Lys Pro Ala Ser Arg Leu Thr Met Ser Glu Ala Ala Leu Leu Ala
195             200             205
Ala Val Leu Pro Asn Pro Leu Arg Phe Lys Ala Ser Thr Pro Ser Gly
210             215             220
Tyr Val Arg Ser Arg Gln Ala Trp Ile Met Arg Gln Met Arg Gln Leu
225             230             235             240
Gly Gly Glu Gly Phe Met Glu Arg Asn Asn Leu Met
245             250

```

<210> 7347

<211> 266

<212> PRT

<213> Enterobacter cloacae

<400> 7347

```

Gly Val Lys Pro Leu Met Leu Leu Asn Ala Leu Ala Gly Leu Gly His
1              5              10              15
Arg Gly Leu Lys Thr Ile Ser Thr Phe Gly Arg Ala Gly Leu Met Leu
20             25             30
Phe Asn Ala Leu Val Gly Lys Pro Glu Phe Arg Lys His Ala Pro Leu
35             40             45
Leu Val Arg Gln Leu Tyr Asn Val Gly Val Leu Ser Met Leu Ile Ile
50             55             60
Ile Val Ser Gly Leu Phe Ile Gly Met Val Leu Gly Leu Gln Gly Tyr
65             70             75             80
Leu Val Leu Thr Thr Tyr Ser Ala Glu Thr Ser Leu Gly Met Leu Val
85             90             95
Ala Leu Ser Leu Leu Arg Glu Leu Gly Pro Val Val Ala Ala Leu Leu
100            105            110
Phe Ala Gly Arg Ala Gly Ser Ala Leu Thr Ala Glu Ile Gly Leu Met
115            120            125
Arg Ala Thr Glu Gln Leu Ser Ser Met Glu Met Met Ala Val Asp Pro
130            135            140
Leu Arg Arg Val Ile Ser Pro Arg Phe Trp Ala Gly Val Ile Ser Leu
145            150            155            160
Pro Leu Leu Thr Ile Leu Phe Val Ala Val Gly Ile Trp Gly Gly Ala
165            170            175
Leu Val Gly Val Asn Trp Lys Gly Ile Asp Ala Gly Phe Phe Trp Ser
180            185            190
Ala Met Gln Asp Ala Ile Asp Leu Arg Met Asp Leu Val Asn Cys Leu
195            200            205
Ile Lys Ser Val Val Phe Ala Val Thr Val Thr Trp Ile Ala Leu Phe

```

```

      210              215              220
Asn Gly Tyr Asp Ala Ile Pro Thr Ser Ala Gly Ile Ser Arg Ala Thr
225              230              235              240
Thr Arg Thr Val Val His Ser Ser Leu Ala Val Leu Gly Leu Asp Phe
      245              250              255
Val Leu Thr Ala Leu Met Phe Gly Asn
      260              265

```

<210> 7348

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 7348

```

Trp Pro Asp Gly Ser Ala Ser Val His Leu Ser Ser Glu Asn Tyr Pro
1              5              10              15
Gly Arg Glu Glu Val Met Ser Gln Gln Leu Ser Trp Ala Arg Asp Gly
      20              25              30
Glu Thr Leu Thr Leu Thr Gly Glu Leu Asp Gln Asp Leu Leu Asn Pro
      35              40              45
Leu Trp Asp Ala Arg His Asn Ala Met Gln Gly Val Thr Leu Ile Asp
      50              55              60
Leu His Gly Val Thr Arg Val Asp Thr Ala Gly Ile Ala Leu Leu Ala
      65              70              75              80
His Leu Val Ala Thr Gly Lys Lys Gln Gly Ser Ser Val Thr Leu Thr
      85              90              95
Gly Val Ser Asp Asn Val Ile Thr Leu Ala Gln Leu Tyr Asn Leu Pro
      100              105              110
Glu Asp Val Leu Pro Arg
      115

```

<210> 7349

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 7349

```

Phe Phe Gln Tyr Val Thr Ser Glu Ser Pro Asp Ser Leu Arg Val Gly
1              5              10              15
Ala Phe Cys Leu Phe Lys Thr Ala Pro Leu Cys Ser Lys Met Leu Ser
      20              25              30
Leu Phe Ser Leu Ser Asp Asp Val Asp Pro Met Glu Asn Asn Glu Ile
      35              40              45
Gln Thr Val Leu Met Asn Ala Leu Ser Leu Gln Glu Ala His Val Ser
      50              55              60
Gly Asp Gly Ser His Phe Gln Val Ile Ala Val Gly Glu Met Phe Asp
      65              70              75              80
Gly Met Ser Arg Val Lys Lys Gln Gln Ala Val Tyr Ala Pro Leu Met
      85              90              95
Glu Tyr Ile Ala Asp Asn Arg Ile His Ala Leu Ser Ile Lys Ala Phe
      100              105              110
Thr Pro Gln Glu Trp Ala Arg Asp Arg Lys Leu Asn Gly Phe
      115              120              125

```

<210> 7350

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 7350

```

Ser Glu Phe Leu Met Cys Phe Ser Glu Leu Leu Arg Arg Ile Val Arg

```

```

1           5           10           15
Met Lys Lys Val Gly Val Val Leu Ser Gly Cys Gly Val Tyr Asp Gly
20
Ser Glu Ile His Glu Thr Val Leu Thr Leu Leu Ala Leu Ser Arg Gln
35
Gly Ala Asp Val Ile Cys Phe Ala Pro Asp Lys Thr Gln Ala Asp Val
50
Met Asn His Leu Thr Gly Glu Pro Met Ala Glu Ser Arg Asn Val Leu
65
Ile Glu Ala Ala Arg Ile Val Arg Gly Asp Ile His Pro Leu Ala Gln
85
Ala Asp Ala Ala Glu Leu Asp Ala Leu Ile Val Pro Gly Gly Phe Gly
100
Ala Ala Lys Asn Leu Ser Thr Phe Ala Thr Glu Gly Ala Ala Cys His
115
Val Asp Pro Asp Leu Lys Ala Leu Ser Leu Ala Met His Ala Ala Gly
130
Lys Pro Gln Gly Phe Ile Cys Ile Ala Pro Ala Met Leu Pro Lys Ile
145
Phe Asp Phe Pro Leu Arg Leu Thr Ile Gly Thr Asp Ile Asp Thr Ala
165
Glu Ile Ile Glu Asp Met Gly Gly Glu His Val Pro Cys Pro Val Asp
180
Asp Ile Val Val Asp Glu Asp Asn Lys Ile Ile Thr Thr Pro Ala Tyr
195
Met Leu Ala Gln Asn Ile Ala Glu Ala Ala Ala Gly Ile Glu Lys Leu
210
Val Asp Arg Val Leu Val Leu Thr Glu
225
230

```

<210> 7351

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 7351

```

Cys Leu Gly Ile Glu Phe Met Gln Thr Arg Lys Asn Glu Ile Trp Val
1           5           10           15
Gly Val Phe Leu Leu Leu Ala Leu Leu Ala Ala Leu Phe Ile Cys Leu
20
Arg Ala Ala Asp Ile Thr Ser Val Arg Ala Glu Pro Thr Tyr Arg Ile
35
Tyr Ala Thr Phe Asp Asn Ile Gly Gly Leu Lys Ala Arg Ser Pro Val
50
Arg Ile Gly Gly Val Val Ile Gly Arg Val Ala Asp Ile Thr Leu Asp
65
Glu Lys Thr Tyr Leu Pro Arg Val Ala Met Asp Ile Glu Glu Arg Tyr
85
Asn His Ile Pro Asp Thr Ser Ser Leu Ser Ile Arg Thr Ser Gly Leu
100
Leu Gly Glu Gln Tyr Leu Ala Leu Asn Val Gly Phe Glu Asp Pro Glu
115
Leu Gly Thr Thr Ile Leu Lys Asp Gly Ser Val Ile Gln Asp Thr Lys
130
Ser Ala Met Val Leu Glu Asp Met Ile Gly Gln Phe Leu Tyr Asn Ser
145
Lys Gly Asp Asp Lys Lys Ser Asp Asp Ala Pro Ala Gln Ser Glu Asp
165
His Thr Asn Val Glu Pro Thr Pro Gly Ala Thr Asn
180
185

```

<210> 7352
 <211> 218
 <212> PRT
 <213> Enterobacter cloacae

<400> 7352
 Phe Gln Glu Lys Leu Phe Met Phe Lys Arg Leu Leu Met Val Ala Met
 1 5 10 15
 Leu Val Ile Ala Pro Leu Thr Ala Ala His Ala Ala Asp Gln Ser Asn
 20 25 30
 Pro Tyr Lys Leu Met Asn Glu Ala Ala Lys Lys Thr Phe Asp Arg Leu
 35 40 45
 Lys Asn Glu Gln Pro Lys Ile Arg Ser Asn Pro Asp Tyr Leu Arg Asp
 50 55 60
 Val Val Asp Gln Glu Leu Leu Pro Tyr Val Gln Ile Lys Tyr Ala Gly
 65 70 75 80
 Ala Leu Val Leu Gly Arg Tyr Tyr Lys Asp Ala Thr Pro Ala Gln Arg
 85 90 95
 Glu Ala Tyr Phe Ala Ala Phe Arg Glu Tyr Leu Lys Gln Ala Tyr Gly
 100 105 110
 Gln Ala Leu Ala Met Tyr His Gly Gln Thr Tyr Gln Ile Ala Pro Glu
 115 120 125
 Gln Pro Leu Gly Asp Ala Thr Ile Ile Pro Ile Arg Val Thr Ile Ile
 130 135 140
 Asp Pro Asn Gly Arg Pro Pro Val Arg Leu Asp Phe Gln Trp Arg Lys
 145 150 155 160
 Asn Ser Gln Thr Gly Asn Trp Gln Ala Tyr Asp Met Ile Ala Glu Gly
 165 170 175
 Val Ser Met Ile Thr Thr Lys Gln Asn Glu Trp Ser Asp Leu Leu Arg
 180 185 190
 Thr Lys Gly Ile Asp Gly Leu Thr Ala Gln Leu Gln Ser Ile Ser Arg
 195 200 205
 Gln Lys Ile Thr Leu Asp Glu Lys Lys
 210 215

<210> 7353
 <211> 659
 <212> PRT
 <213> Enterobacter cloacae

<400> 7353
 Val Leu Leu Ser Asp Lys Val Val Lys Gly Ser Ser Met Lys Gln Ile
 1 5 10 15
 Arg Met Leu Ala Gln Tyr Tyr Val Asp Leu Met Met Lys Leu Gly Leu
 20 25 30
 Val Arg Phe Ser Met Leu Leu Ala Leu Ala Val Val Leu Ala Ile
 35 40 45
 Val Val Gln Met Ala Val Thr Met Val Leu His Gly Gln Val Glu Ser
 50 55 60
 Ile Asp Val Ile Arg Ser Ile Phe Phe Gly Leu Leu Ile Thr Pro Trp
 65 70 75 80
 Ala Val Tyr Phe Leu Ser Val Val Val Glu Gln Leu Glu Glu Ser Arg
 85 90 95
 Gln Arg Leu Ser Lys Leu Val Asp Lys Leu Glu Glu Met Arg Glu Arg
 100 105 110
 Asp Leu Lys Leu Asn Val Gln Leu Lys Asp Asn Ile Ala Gln Leu Asn
 115 120 125
 Gln Glu Ile Ser Asp Arg Glu Lys Ala Glu Ala Glu Arg Gln Thr Thr
 130 135 140
 Leu Glu Gln Leu Lys Ile Glu Met Lys Glu Arg Glu Val Thr Gln Ile
 145 150 155 160

Gln Leu Glu Gln Gln Ser Ser Phe Leu Arg Ser Phe Leu Asp Ala Ser
 165 170 175
 Pro Asp Leu Val Phe Tyr Arg Asn Glu Asp Lys Glu Phe Ser Gly Cys
 180 185 190
 Asn Arg Ala Met Glu Leu Leu Thr Gly Lys Ser Glu Lys Gln Leu Ile
 195 200 205
 His Leu Lys Pro Gln Asp Val Tyr Ser Glu Glu Ala Ala Lys Val
 210 215 220
 Met Glu Thr Asp Glu Lys Val Phe Arg His Asn Val Ser Leu Thr Tyr
 225 230 235 240
 Glu Gln Trp Leu Asp Tyr Pro Asp Gly Arg Lys Ala Cys Phe Glu Ile
 245 250 255
 Arg Lys Val Pro Tyr Tyr Asp Arg Val Gly Lys Arg His Gly Leu Met
 260 265 270
 Gly Phe Gly Arg Asp Ile Thr Glu Arg Lys Arg Tyr Gln Asp Ala Leu
 275 280 285
 Glu Arg Ala Ser Arg Asp Lys Thr Thr Phe Ile Ser Thr Ile Ser His
 290 295 300
 Glu Leu Arg Thr Pro Leu Asn Gly Ile Val Gly Leu Ser Arg Ile Leu
 305 310 315 320
 Leu Asp Thr Glu Leu Thr Ser Glu Gln Glu Lys Tyr Leu Lys Thr Ile
 325 330 335
 His Val Ser Ala Val Thr Leu Gly Asn Ile Phe Asn Asp Ile Ile Asp
 340 345 350
 Met Asp Lys Met Glu Arg Arg Lys Val Gln Leu Asp Asn Gln Pro Val
 355 360 365
 Asp Phe Thr Gly Phe Leu Ala Asp Leu Glu Asn Leu Ser Gly Leu Gln
 370 375 380
 Ala Gln Gln Lys Gly Leu Ser Phe Val Met Glu Pro Thr Leu Pro Leu
 385 390 395 400
 Pro His Lys Val Val Thr Asp Gly Thr Arg Leu Arg Gln Ile Leu Trp
 405 410 415
 Asn Leu Ile Ser Asn Ala Val Lys Phe Thr Gln Lys Gly Gln Val Ala
 420 425 430
 Val Arg Ile Arg Tyr Asp Glu Gly Asp Met Leu His Phe Glu Val Glu
 435 440 445
 Asp Ser Gly Ile Gly Ile Pro Gln Glu Glu Gln Asp Lys Ile Phe Ala
 450 455 460
 Met Tyr Tyr Gln Val Lys Asp Ser His Gly Gly Lys Pro Ala Thr Gly
 465 470 475 480
 Thr Gly Ile Gly Leu Ala Val Ser Lys Arg Leu Ala Lys Ser Met Gly
 485 490 495
 Gly Asp Ile Thr Val Ala Ser Gln Pro Gly Lys Gly Ser Thr Phe Thr
 500 505 510
 Leu Thr Val His Ala Pro Ala Val Ala Glu Glu Val Glu Asp Thr Phe
 515 520 525
 Glu Asn Asp Asp Met Pro Leu Pro Ala Leu His Val Leu Leu Val Glu
 530 535 540
 Asp Ile Glu Leu Asn Val Ile Val Ala Arg Ser Val Leu Glu Lys Leu
 545 550 555 560
 Gly Asn Ser Val Asp Val Ala Met Thr Gly Lys Ala Ala Leu Glu Met
 565 570 575
 Phe Thr Pro Gly Glu Tyr Asp Leu Val Leu Asp Ile Gln Leu Pro
 580 585 590
 Asp Met Thr Gly Leu Asp Ile Ser Arg Glu Leu Thr Arg Lys Tyr Ala
 595 600 605
 Pro Asp Glu Leu Pro Pro Leu Val Ala Leu Thr Ala Asn Val Leu Lys
 610 615 620
 Asp Lys Lys Glu Tyr Leu Glu Ala Gly Met Asp Asp Val Leu Ser Lys
 625 630 635 640
 Pro Leu Ala Val Pro Ala Pro Asp Gly Asp Asp Gln Glu Val Leu Gly

Tyr Leu

645

650

655

<210> 7354

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 7354

```

Met Ser Gln Thr Met Ala Asn Ile Val Asp Val Arg Gly Val Ser Phe
1          5          10          15
Ser Arg Gly Asn Arg Leu Ile Phe Asp Asp Ile Ser Leu Thr Val Pro
          20          25          30
Arg Gly Lys Ile Thr Ala Ile Met Gly Pro Ser Gly Ile Gly Lys Thr
          35          40          45
Thr Leu Leu Arg Leu Ile Gly Gly Gln Ile Pro Pro Asp Ser Gly Glu
          50          55          60
Ile Leu Phe Asp Gly Glu Asn Val Pro Ala Met Ser Arg Ser Arg Leu
65          70          75          80
Tyr Thr Val Arg Lys Arg Met Ser Met Leu Phe Gln Ser Gly Ala Leu
          85          90          95
Phe Thr Asp Met Asn Val Phe Asp Asn Val Ala Tyr Pro Leu Arg Glu
          100          105          110
His Thr His Leu Pro Pro Ala Leu Leu His Ser Thr Val Met Met Lys
          115          120          125
Leu Glu Ala Val Gly Leu Arg Gly Ala Ala Lys Leu Met Pro Ser Glu
          130          135          140
Leu Ser Gly Gly Met Ala Arg Arg Ala Ala Leu Ala Arg Ala Ile Ala
145          150          155          160
Leu Glu Pro Asp Leu Ile Met Phe Asp Glu Pro Phe Val Gly Gln Asp
          165          170          175
Pro Ile Thr Met Gly Val Leu Val Lys Leu Ile Ser Glu Leu Asn Ser
          180          185          190
Ala Leu Gly Val Thr Cys Val Val Val Ser His Asp Val Pro Glu Val
          195          200          205
Leu Ser Ile Ala Asp Tyr Ala Tyr Ile Val Ala Asp Lys Lys Ile Val
          210          215          220
Ala His Gly Ser Ala Gln Ala Leu Gln Glu Asn Gly Asp Pro Arg Val
225          230          235          240
Arg Gln Phe Leu Asp Gly Ile Ala Asp Gly Pro Val Pro Phe Arg Tyr
          245          250          255
Pro Ala Gly Asp Tyr His Asp Asp Leu Leu Gly Ile Gly Ser
          260          265          270

```

<210> 7355

<211> 435

<212> PRT

<213> Enterobacter cloacae

<400> 7355

```

Gly Arg Asn Ala Arg Ser Thr Val Glu Phe Ile Arg Glu Gln Thr Met
1          5          10          15
Asp Lys Phe Arg Val Gln Gly Pro Thr Arg Leu Gln Gly Glu Val Thr
          20          25          30
Ile Ser Gly Ala Lys Asn Ala Ala Leu Pro Ile Leu Phe Ala Ala Leu
          35          40          45
Leu Ala Glu Glu Pro Val Glu Ile Gln Asn Val Pro Lys Leu Lys Asp
          50          55          60
Ile Asp Thr Thr Met Lys Leu Leu Gly Gln Leu Gly Thr Lys Val Glu
65          70          75          80

```

Arg Asn Gly Ser Val Trp Ile Asp Ala Ser Asn Val Asn Asn Phe Ser
 85 90 95
 Ala Pro Tyr Glu Leu Val Lys Thr Met Arg Ala Ser Ile Trp Ala Leu
 100 105 110
 Gly Pro Leu Val Ala Arg Phe Gly Gln Val Ser Leu Pro Gly
 115 120 125
 Gly Cys Ala Ile Gly Ala Arg Pro Val Asp Leu His Ile Phe Gly Leu
 130 135 140
 Glu Lys Leu Gly Ala Glu Ile Lys Leu Glu Glu Tyr Val Lys Ala
 145 150 155 160
 Ser Val Asn Gly Arg Leu Lys Gly Ala His Ile Val Met Asp Lys Val
 165 170 175
 Ser Val Gly Ala Thr Val Thr Ile Met Ser Ala Ala Thr Leu Ala Glu
 180 185 190
 Gly Thr Thr Ile Ile Glu Asn Ala Ala Arg Glu Pro Glu Ile Val Asp
 195 200 205
 Thr Ala Asn Phe Leu Val Ala Leu Gly Ala Lys Ile Ser Gly Gln Gly
 210 215 220
 Thr Asp Arg Ile Thr Ile Glu Gly Val Glu Arg Leu Gly Gly Val
 225 230 235 240
 Tyr Arg Val Leu Pro Asp Arg Ile Glu Thr Gly Thr Phe Leu Val Ala
 245 250 255
 Ala Ala Ile Ser Gly Gly Lys Ile Val Cys Arg Asn Ala Gln Pro Asp
 260 265 270
 Thr Leu Asp Ala Val Leu Ala Lys Leu Arg Asp Ala Gly Ala Asp Ile
 275 280 285
 Glu Ile Gly Glu Asp Trp Ile Ser Leu Asp Met His Gly Gln Arg Pro
 290 295 300
 Lys Ala Val Asn Val Arg Thr Ala Pro His Pro Ala Phe Pro Thr Asp
 305 310 315 320
 Met Gln Ala Gln Phe Thr Leu Leu Asn Leu Val Ala Glu Gly Thr Gly
 325 330 335
 Phe Ile Thr Glu Thr Ile Phe Glu Asn Arg Phe Met His Val Pro Glu
 340 345 350
 Leu Ile Arg Met Gly Ala His Ala Glu Ile Glu Ser Asn Thr Val Ile
 355 360 365
 Cys His Gly Val Glu Lys Leu Ser Gly Ala Gln Val Met Ala Thr Asp
 370 375 380
 Leu Arg Ala Ser Ala Ser Leu Val Leu Ala Gly Cys Ile Ala Glu Gly
 385 390 395 400
 Thr Thr Val Val Asp Arg Ile Tyr His Ile Asp Arg Gly Tyr Glu Arg
 405 410 415
 Ile Glu Asp Lys Leu Arg Ala Leu Gly Ala Asn Ile Glu Arg Val Lys
 420 425 430
 Gly Glu
 435

<210> 7356

<211> 340

<212> PRT

<213> *Enterobacter cloacae*

<400> 7356

Glu Asp His Ser Val Ile His Gly Ala Ala Phe Ala Pro Pro Pro Arg
 1 5 10 15
 Arg Tyr Arg Ala Glu Leu Glu Tyr Leu Met Lys Leu Ser Arg Gln Thr
 20 25 30
 Thr Ser Asp Thr Ser Val Asp Gly Arg Ser Arg Ala Tyr Ala Trp Gly
 35 40 45
 Arg Val His Tyr Phe Ile Ile Glu His Ala Pro Met Ala Glu Leu Val
 50 55 60

Ala Ile Asp Glu Leu Leu Glu Lys Ala Gly Trp Ser Asn Asp Gly Cys
 65 70 75 80
 Pro Asn Tyr Glu Lys Asp Asp Glu Phe Gly Asn Ala Gly Tyr Ser Cys
 85 90 95
 Gly Tyr Trp Ile Asp Ile Asp Ser Val Gly Ser Phe Lys Ala Asp Tyr
 100 105 110
 Lys Arg Leu Lys Gly Glu Ile Ser Ala His Ile Ala Ser Lys Ala Ala
 115 120 125
 Glu Val Glu Ile Arg Val Leu Asp Ser Met Ser Asp Lys Glu Cys Lys
 130 135 140
 Asp Val Ala Ser Val Ala Cys Thr Val Arg Arg Asp Leu Arg Thr Gln
 145 150 155 160
 Ser Glu Ser Leu His Ser Leu Arg Thr Ile Val Thr Val Asp His Tyr
 165 170 175
 Asn Pro Tyr Val Ile Thr Ser Arg Pro Leu Ser Ile Ser Ala Trp Thr
 180 185 190
 Leu Ile His Asp Cys Leu Lys Thr Gly Thr Ile Asn Asp Val Cys Ser
 195 200 205
 Arg Leu Ser Ser Leu Ile Leu His Ser Glu Ala Ala Ile Ala Arg Cys
 210 215 220
 Lys Gly Ser Ser Asp Tyr Ser Ser Glu His Ala Gln Leu Ser Phe Phe
 225 230 235 240
 Ala Gly Asn Asp Tyr Val Thr Arg Arg Thr Leu Val Asp Ala Ala His
 245 250 255
 Glu Glu Ala Leu Arg Met Asn Arg Arg Phe Asp Glu Arg Ile Ala Met
 260 265 270
 Asn Ala Asp Ser Asp Ala Arg Arg Leu Gln Cys Glu Phe Asn Leu Ser
 275 280 285
 Asn His Val Val Gln Arg Arg Thr Val Glu Ser Ala His Ile Gln Ala
 290 295 300
 Ile Asn Glu Asp Val Thr Arg Ser Gln Ala Glu Pro Arg Cys Pro Gly
 305 310 315 320
 Lys Leu Leu Lys Met Thr Ser His Glu Glu Val Arg Asp Ser Leu
 325 330 335
 Ser Thr Cys

340

<210> 7357

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 7357

Leu Gln Met Ser Leu Gln Val Ser His Tyr Asn Met Leu Arg Ala Ser
 1 5 10 15
 His Glu Val Ser Gln Lys Val Val Val Arg Thr Val Ile Thr Val Arg
 20 25 30
 Phe Val Pro Glu Ala Asp Phe Leu Lys Ile Leu Arg Ala Gln Gln Leu
 35 40 45
 Gly Ala Gly His Ile Lys Tyr Pro Gln Asn Tyr Arg Glu Tyr Leu Lys
 50 55 60
 Phe Leu
 65

<210> 7358

<211> 100

<212> PRT

<213> Enterobacter cloacae

<400> 7358

Ala Val Gly Gln Ala Thr Leu Gly Ile Asp Thr Asn Val Gly Leu His

```

1           5           10           15
Ala Lys Val Pro Leu Ile Ala Phe Leu Gly Leu Met His Leu Arg Ile
                20           25           30
Ala Leu Leu Leu Phe Val Leu Gly Arg Ala Gly Cys Leu Asn Asp Gly
                35           40           45
Gly Ile Asp Gln Gly Ala Leu Ser His His Asp Ala Cys Phe Gly Gln
                50           55           60
Pro Ala Ile Asp Gly Leu Glu Gln Leu Ala Gly Gln Leu Met Leu Leu
65           70           75           80
Gln Gln Val Ala Glu Ile His Asp Gly Gly Ala Val Arg Gln Gly Ala
                85           90           95
Ile Gln Gly
                100

```

<210> 7359

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 7359

```

His Gly Phe Gln Arg Ile Arg Ser Pro Ala Ile Thr Ser Leu Gly Val
1           5           10           15
Lys Arg Leu Asp Asp Phe His His Val Leu Pro Trp Gln Asn Leu Leu
                20           25           30
His Thr Gly Gln Glu Asn Leu Phe Ser Gly Leu Thr Ala Leu Thr Ala
                35           40           45
Glu Phe Thr Val Gly Glu Gly Lys Leu Met Thr His Asp Glu Pro Cys
                50           55           60
Ser Met Ala Pro Asp Asp Lys His Asp Leu Ile Ser Gly Thr Cys Ser
65           70           75           80
His Leu Pro

```

<210> 7360

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 7360

```

Asn Val Pro Arg Gln Phe Ser Gly Gly Phe Phe Met Ile Lys Glu Thr
1           5           10           15
Val Thr Met Ser His Lys Glu Leu Asp Arg Leu His Ile Ile Gln Glu
                20           25           30
Ser Leu Asn Arg His Ile Thr Gln Glu Ala Ala Arg Ile Gly
                35           40           45
Ile Ser Ile Arg Gln Val Lys Arg Leu Val Gln Arg Tyr Arg Asn Glu
                50           55           60
Gly Pro Ser Gly Leu Val Ser Arg Arg Arg Gly Lys Arg Pro Asn Asn
65           70           75           80
Ser Phe Ser Thr Glu Phe Arg Ala Thr Val Ile Ser Leu Leu Lys Gly
                85           90           95
Arg Tyr Ala Asp Phe Gly Pro Thr Leu Ala Cys Glu Lys Leu Arg Glu
                100           105           110
Ile His Gly Leu Cys Leu Ser Ile Glu Thr Leu Arg Lys Trp Met Val
                115           120           125
Glu Glu Gly Ile Trp Arg Glu Arg Arg Arg Lys Phe Ala Arg Ile Tyr
                130           135           140
Gln Arg Arg Met Arg Arg Pro Ser Tyr Gly Glu Leu Ile Gln Ile Asp
145           150           155           160
Gly Ser Pro His Asp Trp Phe Glu Gly Arg Gly Pro Lys Cys Thr Leu
                165           170           175

```

```

Ile Val Phe Phe Asp Asp Ala Thr Ser Ala Leu Met Ala Leu Arg Phe
      180      185      190
Ala Pro Ala Glu Thr Thr Arg Ala Tyr Met Glu Thr Leu Arg Gly Tyr
      195      200      205
Leu Asn Asp His Gly Val Pro Leu Ala Leu Tyr Ser Asp Arg His Ser
      210      215      220
Ile Phe Arg Val Asn Asn Pro Glu Arg Glu Arg Arg Val Asp Ser Val
      225      230      235
His Thr Cys Asp Lys Asp Thr Gly His Arg Ala Asn Pro Cys Gln Gln
      245      250      255
Pro Ala Gly Lys Arg Ala Gly Arg Ala Cys Gln Ser Asp Thr Ala Gly
      260      265      270
Gln Ala Gly Gln Arg Asn Ala Ala Ser Gly Tyr Gln
      275      280      285

```

<210> 7361

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 7361

```

Arg Gly Phe Met Leu Ile Ile Gly Ala Cys Thr Arg Phe Ile Thr Ser
1      5      10      15
Val Ala Trp Ala Leu Asn Arg Arg Arg Arg Lys Gly Leu Ala Thr
      20      25      30
Glu Arg Leu Pro Cys Phe Leu Pro Ala Ala Pro Asn Leu Thr Trp Ser
      35      40      45
Met Asp Phe Val Met Asp Ala Leu Ser Thr Gly Arg Arg Ile Lys Cys
      50      55      60
Leu Thr Cys Val Asp Asp Phe Thr Lys Glu Cys Leu Thr Val Thr Val
      65      70      75      80
Ala Phe Gly Ile Ser Gly Val Gln Val Thr Arg Ile Leu Asp Ser Ile
      85      90      95
Ala Leu Phe Arg Gly Tyr Pro Ala Thr Ile Arg Thr Asp Gln Gly Pro
      100      105      110
Glu Phe Thr Cys Arg Ala Leu Asp Gln Trp Ala Phe Glu His Gly Val
      115      120      125
Glu Leu Arg Leu Ile Gln Pro Gly Lys Pro Thr Gln Asn Gly Phe Ile
      130      135      140
Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu Cys Leu Asn Glu His Trp
      145      150      155      160
Phe Ser Asp Ile Val His Ala Arg Lys Ile Ile Asn Asp Trp Arg Gln
      165      170      175
Asp Tyr Asn Glu Cys Arg Pro His Ser Thr Leu Asn Tyr Gln Thr Pro
      180      185      190
Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly His Ser Glu Asn Glu Asp
      195      200      205
Ser Asp Val Thr Asn
      210

```

<210> 7362

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 7362

```

Val Leu Tyr Leu Ile Val Gly Ala Gly His Gly Asp Ser Leu Asn Asn
1      5      10      15
Ala Asn Met Trp Gly Gly Glu Ile Leu Asn Arg Val Gln Gln Cys Thr
      20      25      30
Ser Tyr Thr Leu Ala Leu Thr Gly Thr Pro Trp Arg Thr Asp Asn Asn

```

```

      35              40              45
Pro Ile Val Leu Ser Asn Tyr Thr Asp Pro Gln Gly Lys Ile Cys Cys
  50              55              60
Asp Tyr Val Tyr Gly Leu His Glu Ala Ile Val Asp Gly Val Cys Arg
  65              70              75              80
Lys Pro Lys Ile Ala Leu Ile Asn Ser Asn Asn Leu Leu Tyr Ser Ser
      85              90              95
Gly Glu Val Val Gln His Phe Asp Ser Ile Ala Gly Phe Leu Ser Glu
      100              105              110
Thr Ile Thr Ser Tyr Gln Ser Ile Ile Trp His Pro Asp Ala Met Lys
      115              120              125
Tyr Leu Leu Lys Ser Gly Cys Lys Lys Leu Cys Glu Ile Arg Lys Val
      130              135              140
Asn Ser Asp Ala Gly Gly Leu Val Val Ala Ser Ser Val Glu His Ala
      145              150              155              160
Tyr Gln Leu Leu Asn Ile Leu Glu Asn Glu Phe Ala Gln Thr Ala Thr
      165              170              175
Ile Val Thr Tyr His Asp Arg Asp Ala Leu Val Lys Ile Glu Asn Tyr
      180              185              190
Arg Gln Ser Thr Thr Glu Trp Ile Val Ser Val Gly Met Ile Ser Glu
      195              200              205
Gly Thr Asp Ile Pro Arg Leu Gln Val Cys Cys His Leu Ser Ser Val
      210              215              220
Lys Thr Glu Leu Tyr Phe Arg Gln Val Leu Gly Arg Ile Leu Arg Val
      225              230              235
Asn Gln Ser Glu Asn Gln Glu Ala Trp Leu Phe Thr Ile Ala Thr Asp
      245              250              255
Glu Leu Thr Leu Phe Ser Asn Arg Leu Ala Glu Asp Leu Pro Glu Asp
      260              265              270
Tyr Lys Ile Leu Gln Lys Gln Ser Asp Glu Trp Ser Leu Ser Ile His
      275              280              285
Glu Thr Glu Ser Thr Ser Pro Glu Ile Val Arg Arg Asn Gly Met Ser
      290              295              300
Lys Ile Gly Glu Phe Asn Leu Lys Met Asn Phe Ser Glu Ile Thr Ile
      305              310              315
Ser Pro Pro Ala Val Leu Asp Lys Thr Lys Gln Leu Asn Met Gly Ser
      325              330              335
Leu Tyr Gln Gln Val Ile Asp Ala Phe Leu Phe Ser Val Ile
      340              345              350

```

<210> 7363

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 7363

```

Ser Ala Ala Trp Arg Gly Ala Ile Cys Leu Ser Arg Cys Arg Leu Pro
  1              5              10              15
Arg Gly Ala Thr Ala Arg Gly Ala Gly Arg Gly Gly Cys Gly Leu Ala
      20              25              30
Asp Arg Arg Ala Pro Arg Gln Gly Lys Asn Leu Glu Thr Ala Ser Thr
      35              40              45
Gln Glu Gln Asn Gly His Gln His Arg Ile His Glu Ser Gln His Pro
      50              55              60
Gly Gln Gly Gly Ala Pro Ile Ser His His Gln Ala Thr Val Arg Leu
      65              70              75              80
Arg Glu Ser Gln Ile Gln Gly Val Ala Glu Lys Arg
      85              90

```

<210> 7364

<211> 230

<212> PRT

<213> *Enterobacter cloacae*

<400> 7364

```

Ile Thr Arg Ser Gly Lys Gly Glu Leu Thr Gln Phe Thr Arg Ala Ile
1      5      10      15
Lys Thr Leu Gly Ile Glu Pro Ile His Ala Asn Ser Pro Gln Ala Lys
      20      25      30
Gly Arg Val Glu Arg Ala Asn Gln Thr Leu Gln Asp Arg Leu Val Lys
      35      40      45
Glu Met Arg Leu Gln Gly Ile Ser Asp Ile Glu Thr Ala Asn Ala Trp
50      55      60
Leu Pro Thr Phe Ile Glu Ala Tyr Asn Asn Arg Phe Ala Thr Pro Pro
65      70      75      80
Arg Ile Ala Asp Asn Ala His Leu Asp Val His His Ser Glu Glu Glu
      85      90      95
Leu Gly Tyr Ile Phe Ser Leu Gln Ala Lys Arg Val Leu Ser Lys Asn
      100      105      110
Leu Thr Phe Gln Tyr Lys Ser Ser Ala Phe Gln Ile Arg Ser Glu Gly
      115      120      125
Arg Gly Tyr Arg Leu Arg His Ser Val Val Thr Val Cys Glu Ser Phe
      130      135      140
Asn Gly Glu Ile Lys Val Leu Tyr Asp Gly Lys Ala Leu Gly Trp Glu
145      150      155      160
Lys Tyr Val Asp Gly Pro Glu Pro Ile Pro Leu Asp Asp Glu Lys Ser
      165      170      175
Val His Glu Arg Val Asp Asn Ala Arg Phe Asp Leu Arg Ser Lys Phe
      180      185      190
Tyr Val Lys Pro Lys Ala Asp His Pro Trp Leu Thr Arg Arg Thr Gln
      195      200      205
Ser Asn Gln Gln Val Lys Pro Pro Lys Leu Pro Arg Lys Lys Ala Asp
210      215      220
Pro Asp Lys Met Asp
225      230

```

<210> 7365

<211> 316

<212> PRT

<213> *Enterobacter cloacae*

<400> 7365

```

Ser Ser Tyr Phe Arg Lys Leu Ile Met Thr Lys Thr Lys Gly Leu Pro
1      5      10      15
Arg Pro Leu Thr His Tyr Ala Trp Leu Ser Ile Ala Thr Ala Ile Ala
      20      25      30
Thr Ile Gly Leu Lys Gly Val Ala Trp Lys Met Thr Gly Ser Val Gly
      35      40      45
Leu Leu Ser Asp Ala Ile Glu Ser Val Val Asn Leu Ala Gly Ala Leu
50      55      60
Met Ala Leu Trp Met Glu Thr Leu Ala Ala Leu Pro Ala Asp Glu Asn
65      70      75      80
His Ala Tyr Gly His Gly Lys Ala Glu Tyr Phe Ser Ser Ala Phe Glu
      85      90      95
Gly Phe Leu Ile Leu Leu Ala Ala Ala Ser Ile Ala Tyr Thr Ala Val
      100      105      110
Glu Arg Met Leu Thr Pro Gln Pro Leu Glu Glu Ile Gly Leu Gly Leu
      115      120      125
Leu Val Ser Thr Val Ala Ser Ile Leu Asn Phe Val Thr Thr Ala Arg Ile
130      135      140
Leu Leu Arg Ala Gly Arg Gln His Asn Ser Ile Thr Leu Glu Ala Asp
145      150      155      160

```

Ala His His Leu Leu Thr Asp Val Trp Thr Ser Val Gly Val Ile Phe
 165 175
 Gly Val Gly Leu Val Tyr Leu Thr Gly Trp Phe Trp Val Asp Pro Ile
 180 185 190
 Val Ala Leu Leu Val Ala Ala Asn Ile Val Trp Thr Gly Tyr Gln Leu
 195 200 205
 Met Ser Arg Ser Ala Ala Gly Leu Met Asp Val Ser Leu Pro Thr Glu
 210 215 220
 Glu Leu Lys Lys Ile Glu Ser Leu Leu Ala Gly Tyr Arg Glu Gln Gly
 225 230 235 240
 Leu Asp Phe His Ala Leu Arg Trp Arg Gln Ala Gly Gly Arg Ala Phe
 245 250 255
 Met Thr Met His Ile Leu Val Pro Gly Arg Trp Thr Val Gln Tyr Gly
 260 265 270
 His Asp Trp Ala Glu Arg Ile Glu Asn Asp Ile Arg Thr Ala Leu Pro
 275 280 285
 Phe Ile His Ile Thr Thr His Val Glu Pro Leu Glu Asp Pro Ala Ser
 290 295 300
 Met Asn Asp Gln Thr Leu Asp Ile Ser Asp His
 305 310 315

<210> 7366

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 7366

Thr Leu Met Ala Tyr Phe Leu Asp Phe Asp Glu Arg Ala Leu Lys Glu
 1 5 10 15
 Trp Arg Lys Leu Gly Ser Thr Val Arg Glu Gln Leu Lys Lys Lys Leu
 20 25 30
 Val Glu Val Leu Glu Ser Pro Arg Ile Glu Ala Asn Lys Leu Arg Gly
 35 40 45
 Met Pro Asp Cys Tyr Lys Ile Lys Leu Arg Ser Ser Gly Tyr Arg Leu
 50 55 60
 Val Tyr Gln Val Ile Asp Glu Lys Val Val Val Phe Val Ile Ser Val
 65 70 75 80
 Gly Lys Arg Glu Arg Ser Glu Val Tyr Ser Glu Ala Val Lys Arg Ile
 85 90 95
 Leu

<210> 7367

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 7367

Tyr Glu Ile Met Phe Val Ile Trp Ser His Gly Thr Gly Phe Ile Met
 1 5 10 15
 Ser His Gln Leu Thr Phe Ala Asp Ser Glu Phe Ser Ser Lys Arg Arg
 20 25 30
 Gln Thr Arg Lys Glu Ile Phe Leu Ser Arg Met Glu Gln Ile Leu Pro
 35 40 45
 Trp Gln Asn Met Val Glu Val Ile Glu Pro Phe Tyr Pro Lys Ala Gly
 50 55 60
 Asn Gly Arg Arg Pro Tyr Pro Leu Glu Thr Met Leu Arg Ile His Cys
 65 70 75 80
 Met Gln His Trp Tyr Asn Leu Ser Asp Gly Ala Met Glu Asp Ala Leu
 85 90 95
 Tyr Glu Ile Ala Ser Met Arg Arg Phe Ala Arg Leu Ser Leu Asp Ser

100 105 110
 Ala Leu Pro Asp Arg Thr Thr Ile Met Asn Phe Arg His Leu Leu Glu
 115 120 125
 Gln His Gln Leu Ala Arg Gln Leu Phe Lys Thr Ile Asn Arg Trp Leu
 130 135 140
 Ala Glu Ala Gly Val Met Met Thr Gln Gly Thr Leu Val Asp Ala Thr
 145 150 155 160
 Ile Ile Glu Ala Pro Ser Ser Thr Lys Asn Lys Glu Gln Gln Arg Asp
 165 170 175
 Pro Glu Met His Gln Thr Lys Lys Gly Asn Gln Trp His Phe Gly Met
 180 185 190
 Lys Ala His Ile Gly Val Asp Ala Lys Ser Gly Leu Thr His Ser Leu
 195 200 205
 Val Thr Thr Ala Ala Asn Glu His Asp Leu Asn Gln Leu Gly Asn Leu
 210 215 220
 Leu His Gly Glu Glu Gln Phe Val Ser Ala Asp Ala Gly Tyr Gln Gly
 225 230 235 240
 Ala Pro Gln Arg Glu Glu Leu Ala Glu Val Asp Val Asp Trp Leu Ile
 245 250 255
 Ala Glu Arg Pro Gly Lys Val Arg Thr Leu Lys Gln His Pro Arg Lys
 260 265 270
 Asn Lys Thr Ala Ile Asn Ile Glu Tyr Met Lys Ala Ser Ile Arg Ala
 275 280 285
 Lys Val Glu His Pro Phe Arg Ile Ile Lys Arg Gln Phe Gly Phe Val
 290 295 300
 Lys Ala Arg Tyr Lys Gly Leu Leu Lys Asn Asp Asn Gln Leu Ala Met
 305 310 315 320
 Leu Phe Thr Leu Ala Asn Leu Phe Arg Ala Asp Gln Met Ile Arg Gln
 325 330 335
 Trp Glu Arg Ser His
 340

<210> 7368

<211> 458

<212> PRT

<213> Enterobacter cloacae

<400> 7368

Ser Pro Leu Phe Phe Arg Ala Ser Arg Cys Ser Thr Phe Ala Asn Glu
 1 5 10 15
 Tyr Ser Gly His Ala Asp Lys Leu Leu Ala Ile Phe Leu Ser Lys Ser
 20 25 30
 Val Glu Cys Ile Pro Ile Pro Asp Lys Lys Glu Leu Val Met Thr Val
 35 40 45
 Thr Asn Gln Phe Ala Ala His Val Gly Leu Asp Trp Ala Asp Lys Lys
 50 55 60
 His Asp Val Cys Val Gln Phe Lys Asn Gly Glu Arg Val Phe Asp Val
 65 70 75 80
 Ile Glu His Thr Ala Glu Ala Leu Asp Ala Trp Leu Thr Glu Leu His
 85 90 95
 Gln Lys Val Lys Gly Arg Ile Ala Ile Ala Leu Glu Leu Lys Lys Gly
 100 105 110
 Pro Val Val Tyr Ala Leu Gln Lys Tyr Pro Phe Ile Thr Val Phe Pro
 115 120 125
 Val His Ala Leu Ser Leu Ala Arg Tyr Arg Gln Ala Phe Ser Pro Ser
 130 135 140
 Gly Ala Lys Asp Asp Pro Gln Asp Ala Glu Leu Ala Leu Glu Leu Met
 145 150 155 160
 Leu Arg Tyr Pro Gln Lys Ile Lys Ala Ile Glu Pro Asp Asn Ala Asp
 165 170 175
 Ile Arg Leu Leu Gln Gln Leu Val Glu Gln Arg Arg Gln Leu Val Glu

```

180      185      190
Asp Lys Arg Arg Phe Val Asn Arg Ile Ile Asn Thr Leu Lys Gln Tyr
195      200      205
Tyr Pro Gln Pro Leu Glu Trp Phe Ser His Arg Gly Ser Leu Leu Leu
210      215      220
Cys Glu Leu Ile Ile Arg Trp Pro Ser Leu Gln Gln Leu Lys Arg Ala
225      230      235      240
Arg Arg Asp Thr Ile Arg Asn Phe Leu Asn Ala Lys Gly Gly Arg Ala
245      250      255
Met Ala Leu Thr Glu Gln Arg Val Ala Ser Ile Asp Asn Ala Ile Pro
260      265      270
Leu Thr Thr Asp Pro Ser Val Ile Glu Ala Asn Ala Leu Met Ala Ala
275      280      285
Ala Leu Ala Thr Gln Ile Lys Val Val Ser Glu Ile Ile Lys Thr Tyr
290      295      300
Asp Glu Arg Ile Glu Thr Leu Phe Asp Thr Leu Pro Asp Ala Gly Leu
305      310      315      320
Phe Lys Ser Leu Pro Gly Met Gly Pro Cys Met Gly Pro Arg Met Leu
325      330      335
Ala Ala Leu Gly Asp Asn Arg Asp Arg Phe Asn Ser Ala Glu Glu Ile
340      345      350
Gln Asn Tyr Ala Gly Ile Ala Pro Val Thr Glu Arg Ser Gly Gln Lys
355      360      365
Ser Trp Val His Trp Arg Trp Gln Cys Ala Lys Phe Val Arg Gln Thr
370      375      380
Phe Val Glu Trp Ala Ala Lys Thr Val Asn Ser Ser Tyr Trp Ala Lys
385      390      395      400
Leu Tyr Tyr Gln Gly Leu Arg Glu Lys Gly Lys Ser His Gln Ser Ala
405      410      415
Ile Arg Ala Leu Ala Phe Lys Trp Ile Arg Ile Ile Tyr Arg Cys Trp
420      425      430
Lys Ala Arg Thr Cys Tyr Asp Glu Ala Lys Tyr Leu Leu Ala Leu Glu
435      440      445
Ala Arg His Ser Pro Leu Leu Lys Pro
450      455

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<210> 7369

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 7369

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Asp Met Gly Ser Ile Asn Leu Arg Ile Asp Asp Glu Leu Lys Ala Arg
1      5      10      15
Ser Tyr Ala Ala Leu Glu Lys Met Gly Val Thr Pro Ser Glu Ala Leu
20      25      30
Arg Leu Met Leu Glu Tyr Ile Ala Asp Asn Glu Arg Leu Pro Phe Lys
35      40      45
Gln Thr Leu Leu Ser Asp Glu Asp Ala Glu Leu Val Glu Ile Val Lys
50      55      60
Glu Arg Leu Arg Asn Pro Lys Pro Val Arg Val Thr Leu Asp Glu Leu
65      70      75      80

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<210> 7370

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 7370

His Phe Cys Phe Ala Leu Thr Gly Glu Gly His Glu Asn Ala Glu
 1 5 10 15
 Pro Thr His Cys Phe Val His Ile Asn Ser Leu Phe Asn Ala Val Asp
 20 25 30
 Ile His Leu Ala His Thr Lys Leu Ala Leu Arg Val Ala Asp Glu Arg
 35 40 45
 Arg Asn Lys Gly Gly Ile Cys Tyr Pro Gly Leu Arg Ile Arg
 50 55 60

<210> 7371

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7371

Leu Cys Tyr Gly His Gln Lys Leu Lys Arg Val Glu Val Lys Gln Met
 1 5 10 15
 Lys Ile Thr Ile Ser Gly Thr Gly Tyr Val Gly Leu Ser Asn Gly Ile
 20 25 30
 Leu Ile Ala Gln Asn His Glu Val Val Ala Leu Asp Ile Val Gln Ala
 35 40 45
 Lys Val Asp Met Leu Asn Gln Lys Lys Ser Pro Ile Val Asp Lys Glu
 50 55 60
 Ile Glu Glu Tyr Leu Ala Thr Lys Pro Leu Asn Phe Arg Ala Thr Thr
 65 70 75 80
 Asp Lys Glu Asp Ala Tyr Arg Asp Ala Asp Phe Val Ile Ile Ala Thr
 85 90 95
 Pro Thr Asp Tyr Asp Pro Lys Thr Asn Tyr Phe Asn Thr Ser Thr Val
 100 105 110
 Glu Ala Val Ile Lys Asp Val Thr Ala Ile Asn Pro Asn Ala Val Met
 115 120 125
 Ile Ile Lys Ser Thr Ile Pro Val Gly Phe Thr Lys Ser Ile Lys Glu
 130 135 140
 Glu Leu Gly Ile Asp Asn Val Phe Phe Ser Pro Glu Phe Leu Arg Glu
 145 150 155 160
 Gly Arg Ala Leu Tyr Asp Asn Leu His Pro Ser Arg Ile Val Ile Gly
 165 170 175
 Glu Arg Ser Glu Arg Ala Glu Arg Phe Ala Leu Leu Gln Glu Gly
 180 185 190
 Ala Ile Lys Lys Asp Ile Pro Val Leu Phe Thr Asp Ser Thr Glu Ala
 195 200 205
 Glu Ala Ile Lys Leu Phe Ala Asn Thr Tyr Leu Ala Met Arg Val Ala
 210 215 220
 Tyr Phe Asn Glu Leu Asp Ser Tyr Ala Glu Ser Leu Gly Leu Asn Thr
 225 230 235 240
 Arg Gln Ile Ile Glu Gly Val Cys Leu Asp Pro Arg Ile Gly Asn His
 245 250 255
 Tyr Asn Asn Pro Ser Phe Gly Tyr Gly Gly Tyr Cys Leu Pro Lys Asp
 260 265 270
 Thr Lys Gln Leu Leu Ala Asn Tyr Gln Ala Val Pro Asn Asn Leu Ile
 275 280 285
 Ser Ala Ile Val Asp Ala Asn Arg Thr Arg Lys Asp Phe Ile Ser Asp
 290 295 300
 Ser Ile Leu Ala Arg Gln Pro Lys Val Val Gly Val Tyr Arg Leu Ile
 305 310 315 320
 Met Lys Ser Gly Ser Asp Asn Phe Arg Ala Ser Ser Ile Gln Gly Ile
 325 330 335
 Met Lys Arg Ile Lys Ala Lys Gly Val Gln Val Ile Ile Tyr Glu Pro
 340 345 350
 Ala Met Gln Glu Asp Glu Phe Phe His Ser Arg Val Ile Arg Asp Leu
 355 360 365

Asp Ala Phe Lys Lys Glu Ala Asp Val Ile Ile Ser Asn Arg Met Ala
 370 375 380
 Glu Glu Leu Ala Asp Val Lys Asp Lys Val Tyr Thr Arg Asp Leu Phe
 385 390 395 400
 Gly Ser Asp

<210> 7372

<211> 156

<212> PRT

<213> *Enterobacter cloacae*

<400> 7372

Arg Ala Gln Thr Ser Ser Tyr Ser Glu Thr Leu Glu Pro Ala Ser Val
 1 5 10 15
 Pro Ser Arg Glu Ile Ser Val His Arg Thr Cys Phe Ser Pro Thr Gly
 20 25 30
 Arg Tyr Ile Pro Thr Ser Ser Ser Ser Val Thr Pro Glu Phe Ser Cys
 35 40 45
 Gln Pro Leu Thr Ala Thr Cys Leu Leu Pro Cys Ser Ser Met Arg Thr
 50 55 60
 Ser Ser Ala Ser Thr Ser Ala Ser Ala Pro Lys Arg Arg Asn Gln Pro
 65 70 75 80
 Leu Thr Leu Ser Gly Ser Phe Thr Ala Val Glu Pro Thr Thr Thr Arg
 85 90 95
 Ala Thr Pro Ala Ser Ser Lys Ala Ala Thr Ser Ala Ser Val Arg Thr
 100 105 110
 Pro Pro Pro Thr Cys Thr Gly Thr Ser Thr Pro Ala Thr Ser Val Leu
 115 120 125
 Ser Ser Gly Ile Trp Arg Phe Ala Gly Ser Phe Ala Pro Val Arg Ser
 130 135 140
 Thr Arg Cys Asn Thr Ser Ala Pro Ser Ala Ala
 145 150 155

<210> 7373

<211> 117

<212> PRT

<213> *Enterobacter cloacae*

<400> 7373

Glu Trp Ile Leu Ser Arg Thr Pro Gly Gln Lys Ser Pro Ala His Arg
 1 5 10 15
 Pro Leu Tyr Arg Ser Pro Ala Arg Arg Thr Ala Ser Pro Arg Thr Gly
 20 25 30
 Ser His Arg Gln Leu Val Glu Glu Ser Arg Ala Pro Pro Ser Asp Asn
 35 40 45
 Arg Gln Tyr Val Pro Gly Trp Pro Ala Ser Gly Arg Ser Lys Thr Ala
 50 55 60
 Glu Gln Ser Arg Arg Glu Tyr Arg Gly Arg Arg Thr Pro Pro Val Ala
 65 70 75 80
 Ser Pro Ala Gly Ser Ala Arg Arg Ala Gly Phe Pro His Pro Pro Pro
 85 90 95
 Ala Ile Ser Ala Arg Cys Gly Arg Tyr Gln Tyr Phe Ser Pro Arg Arg
 100 105 110
 Pro Ser Pro Val
 115

<210> 7374

<211> 381

<212> PRT

<213> *Enterobacter cloacae*

<400> 7374

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Arg Tyr Arg Ala Phe Leu Ser Tyr Pro Ile His Leu Leu Phe Asn Gly
1      5      10      15
Ile Asp Cys Val Lys Ile Leu Val Thr Gly Gly Ala Gly Phe Ile Gly
20      25      30
Ser Ala Val Ile Arg His Ile Ile Ser Asn Thr Arg Asp Ser Val Val
35      40      45
Asn Val Asp Lys Leu Thr Tyr Ala Gly Asn Leu Glu Ser Leu Arg Glu
50      55      60
Val Ser Asp Ser Glu Arg Tyr Val Phe Glu His Ala Asp Ile Cys Asp
65      70      75      80
Lys Glu Ala Met Ala Arg Ile Phe Ala Thr His Gln Pro Asp Ala Val
85      90      95
Met His Leu Ala Ala Glu Ser His Val Asp Arg Ser Ile Thr Gly Pro
100      105      110
Ala Ala Phe Ile Glu Thr Asn Ile Phe Gly Thr Tyr Ile Leu Leu Glu
115      120      125
Thr Ser Arg Ala Tyr Trp Ser Ser Leu Asp Glu Ala Ala Lys Ser Ala
130      135      140
Phe Arg Phe His His Ile Ser Thr Asp Glu Val Tyr Gly Asp Leu Pro
145      150      155      160
His Pro Asp Glu His Ser Asp Ser Thr Pro Leu Pro Leu Phe Thr Glu
165      170      175
Lys Thr Ala Tyr Gln Pro Ser Ser Pro Tyr Ser Ala Ser Lys Ala Ser
180      185      190
Ser Asp His Leu Val Arg Ala Trp Ile Arg Thr Tyr Gly Leu Pro Gly
195      200      205
Ile Val Thr Asn Cys Ser Asn Asn Tyr Gly Pro Tyr His Phe Pro Glu
210      215      220
Lys Leu Ile Pro Leu Val Ile Leu Asn Ala Leu Asp Asn Lys Pro Leu
225      230      235      240
Pro Ile Tyr Gly Lys Gly Asp Gln Ile Arg Asp Trp Leu Tyr Val Glu
245      250      255
Asp His Ala Arg Ala Leu Tyr Thr Val Leu Thr Thr Gly Lys Pro Gly
260      265      270
Glu Thr Tyr Asn Ile Gly Gly His Asn Glu Lys Lys Asn Ile Glu Val
275      280      285
Val Gln Thr Ile Cys Asp Leu Leu Asp Asp Met Val Pro Lys Glu Thr
290      295      300
Ser Tyr Arg Ala Gln Ile Thr Tyr Val Ala Asp Arg Pro Gly His Asp
305      310      315      320
Arg Arg Tyr Ala Ile Asp Ala His Lys Ile Ser Asp Glu Leu Gly Trp
325      330      335
Thr Pro Val Glu Thr Phe Glu Ser Gly Ile Arg Lys Thr Val Lys Trp
340      345      350
Tyr Leu Asn Asn Gln Glu Trp Val Ser Asn Val Lys Ser Gly Ala Tyr
355      360      365
Lys Ser Trp Ile Glu Gln Asn Tyr Gly Glu Arg Lys
370      375      380

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<210> 7375

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 7375

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Met Thr Lys Arg Lys Gly Ile Ile Leu Ala Gly Gly Ser Gly Thr Arg
1      5      10      15
Leu Tyr Pro Val Thr Met Ala Val Ser Lys Gln Leu Leu Pro Ile Tyr
20      25      30

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Asp Lys Pro Met Ile Tyr Tyr Pro Leu Ser Thr Leu Met Leu Ala Gly
 35 40 45
 Ile Arg Asp Ile Leu Ile Ile Ser Thr Pro Gln Asp Thr Pro Arg Phe
 50 55 60
 Glu Gln Leu Leu Gly Asn Gly Ser Gln Trp Gly Leu His Ile Gln Tyr
 65 70 75 80
 Lys Val Gln Pro Ser Pro Asp Gly Leu Ala Gln Ala Phe Ile Leu Gly
 85 90 95
 Glu Glu Phe Ile Gly Glu Asp Asn Cys Ala Leu Val Leu Gly Asp Asn
 100 105 110
 Ile Phe Tyr Gly His Asp Leu Pro Arg Leu Leu Glu Gly Ala Ala Ser
 115 120 125
 Gln Gln Glu Gly Ala Thr Val Phe Ala Tyr His Val Ser Asp Pro Glu
 130 135 140
 Arg Tyr Gly Val Val Glu Phe Asp Lys Asp Gly Thr Ala Ile Gly Leu
 145 150 155 160
 Glu Glu Lys Pro Gln Gln Pro Lys Ser Asn Tyr Ala Ile Thr Gly Leu
 165 170 175
 Tyr Phe Tyr Asp Asn Asp Val Val Glu Met Ala Lys Ser Leu Thr Pro
 180 185 190
 Ser Glu Arg Gly Glu Leu Glu Ile Thr Asp Ile Asn Arg Ile Tyr Met
 195 200 205
 Gln Gln Gly Arg Leu Ser Val Ala Met Met Arg Arg Gly Tyr Ala Trp
 210 215 220
 Leu Asp Thr Gly Thr His Gln Ser Met Ile Glu Ala Ser Asn Phe Ile
 225 230 235 240
 Ala Thr Ile Glu Glu Arg Gln Gly Leu Lys Val Ser Cys Pro Glu Glu
 245 250 255
 Ile Ala Phe Arg Arg Gly Phe Ile Asp Ala Glu Gln Leu Arg Val Leu
 260 265 270
 Ala Glu Pro Leu Lys Lys Thr Gly Tyr Gly Gln Tyr Leu Leu Asn Leu
 275 280 285
 Thr Lys Gly Leu Val
 290

<210> 7376

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 7376

Ala Glu Asn Val Met Lys Lys Val Ala Ile Val Gly Leu Gly Trp Leu
 1 5 10 15
 Gly Met Pro Leu Ala Met Ser Leu Ala Ala Lys Gly Trp Gln Val Thr
 20 25 30
 Gly Ser Lys Thr Thr Arg Asp Gly Val Glu Ala Ala Arg Met Cys Gly
 35 40 45
 Ile Asp Gly Val Glu Leu Arg Leu Glu Pro Glu Leu Ile Cys Asp Thr
 50 55 60
 Asp Glu Leu Asp Glu Leu Met Asn Val Asp Ala Leu Val Ile Thr Leu
 65 70 75 80
 Pro Ala Arg Arg Ser Gly Pro Ser Glu Thr Phe Tyr Leu Gln Ala Val
 85 90 95
 Gln Glu Ile Val Asp Ser Ala Leu Ala His Ile Pro Arg Ile Ile
 100 105 110
 Phe Thr Ser Ser Thr Ser Val Tyr Gly Ala Ile Asp Gly Thr Ala Lys
 115 120 125
 Glu Asn Thr Glu Arg Arg Pro Val Thr Ala Ser Gly Arg Val Leu Lys
 130 135 140
 Glu Leu Glu Asp Trp Leu His Asn Leu Pro Gly Thr Gln Val Asp Ile
 145 150 155 160

Leu Arg Leu Ala Gly Leu Val Gly Pro Gly Arg His Pro Gly Arg Phe
 165 170 175
 Phe Ala Gly Lys Ser Ala Pro Asp Gly Gln His Gly Val Asn Leu Val
 180 185 190
 His Leu Glu Asp Val Ile Gly Ala Ile Glu Leu Leu Gln Ala Pro
 195 200 205
 Lys Gly Gly His Ile Tyr Asn Ile Cys Ala Pro Ser His Pro Pro Arg
 210 215 220
 Ser Thr Phe Tyr Pro Leu Met Ala Arg Gln Leu Gly Leu Ala Pro Pro
 225 230 235 240
 Val Phe Ser Asp Ala Gln Gly Glu Arg Lys Gly Lys Ile Ile Asp Gly
 245 250 255
 Asn Arg Ile Cys His Glu Leu Gly Phe Glu Tyr Gln Tyr Pro Asp Pro
 260 265 270
 Leu Val Met Pro Thr Glu Tyr Phe Ser Leu Thr Lys Arg Pro Gly Pro
 275 280 285
 Ala Leu Asn Ala
 290

<210> 7377

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 7377

Cys Leu Ala Arg Leu Leu Pro Thr Pro Leu Gly Glu Asp Gly Met Ser
 1 5 10 15
 Arg Gln Gln Ile Gly Val Ile Gly Met Ala Val Met Gly Arg Asn Leu
 20 25 30
 Ala Leu Asn Ile Glu Ser Arg Gly Tyr Thr Val Ser Ile Phe Asn Arg
 35 40 45
 Ser Arg Asp Lys Thr Glu Glu Val Ile Ala Glu Asn Pro Gly Lys Lys
 50 55 60
 Leu Val Pro Phe Tyr Thr Val Lys Glu Phe Val Glu Ser Leu Glu Thr
 65 70 75 80
 Pro Arg Arg Ile Leu Leu Met Val Lys Ala Gly Ala Gly Thr Asp Ala
 85 90 95
 Ala Ile Asp Ser Leu Lys Pro Tyr Leu Asp Lys Gly Asp Ile Ile Ile
 100 105 110
 Asp Gly Gly Asn Thr Phe Phe His Asp Thr Ile Arg Arg Asn Arg Glu
 115 120 125
 Leu Ser Ala Glu Gly Phe Asn Phe Ile Gly Thr Gly Val Ser Gly Gly
 130 135 140
 Glu Glu Gly Ala Leu Lys Gly Pro Ser Ile Met Pro Gly Gly Gln Lys
 145 150 155 160
 Glu Ala Tyr Glu Leu Val Ala Pro Ile Leu Thr Lys Ile Ala Ala Val
 165 170 175
 Ala Glu Asp Gly Glu Pro Cys Val Thr Tyr Ile Gly Pro Asp Gly Ala
 180 185 190
 Gly His Tyr Val Lys Met Val His Asn Gly Ile Glu Tyr Gly Asp Met
 195 200 205
 Gln Leu Ile Ala Glu Ala Tyr Ser Leu Leu Lys Gly Gly Leu Asn Leu
 210 215 220
 Ser Asn Glu Glu Leu Ala Glu Thr Phe Thr Glu Trp Asn Lys Gly Glu
 225 230 235 240
 Leu Asn Ser Tyr Leu Ile Asp Ile Thr Lys Asp Ile Phe Thr Lys Lys
 245 250 255
 Asp Glu Glu Gly Lys Tyr Leu Val Asp Val Ile Leu Asp Glu Ala Ala
 260 265 270
 Asn Lys Gly Thr Gly Lys Trp Thr Ser Gln Ser Ser Leu Asp Leu Gly
 275 280 285

Glu Pro Leu Ser Leu Ile Thr Glu Ser Val Phe Ala Arg Tyr Ile Ser
 290 295 300
 Ser Leu Lys Glu Gln Arg Val Ala Ala Ser Lys Val Leu Ser Gly Pro
 305 310 315 320
 Gln Ala Lys Pro Ala Gly Asp Lys Ala Glu Phe Val Glu Lys Val Arg
 325 330 335
 Arg Ala Leu Tyr Leu Gly Lys Ile Val Ser Tyr Ala Gln Gly Phe Ser
 340 345 350
 Gln Leu Arg Ala Ala Ser Asp Glu Asn Asn Trp Asp Leu Asn Tyr Gly
 355 360 365
 Glu Ile Ala Lys Ile Phe Arg Ala Gly Cys Ile Ile Arg Ala Gln Phe
 370 375 380
 Leu Gln Lys Ile Thr Asp Ala Tyr Ala Glu Asn Ala Gly Ile Ala Asn
 385 390 395 400
 Leu Leu Leu Ala Pro Tyr Phe Lys Gln Ile Ala Asp Asp Tyr Gln Gln
 405 410 415
 Ala Leu Arg Asp Val Val Ala Tyr Ala Val Gln Asn Gly Ile Pro Val
 420 425 430
 Pro Thr Phe Ser Ala Ala Val Ala Tyr Tyr Asp Ser Tyr Arg Ala Ala
 435 440 445
 Val Leu Pro Ala Asn Leu Ile Gln Ala Gln Arg Asp Tyr Phe Gly Ala
 450 455 460
 His Thr Tyr Lys Arg Thr Asp Lys Glu Gly Val Phe His Thr Glu Trp
 465 470 475 480
 Leu Asp

<210> 7378

<211> 381

<212> PRT

<213> *Enterobacter cloacae*

<400> 7378

Cys Pro Arg Thr Ser Glu Ser Ala Tyr Asp Ser Ala Ser Tyr Phe Thr
 1 5 10 15
 Tyr Ile Thr His Leu Ser Asp Ile Thr His Arg Ile Leu Ile Glu Lys
 20 25 30
 Ser Pro Ala Thr Asp Thr Leu Arg Lys Gln Asp Tyr Phe Cys Pro Phe
 35 40 45
 Ser Ser Val Arg Asp Cys Met Thr Gln Asn Asn Asn Ser Leu Val Thr
 50 55 60
 Arg Asn Asn Asp Pro Glu Gln Ile Asp Leu Leu Asp Leu Val Leu Gln
 65 70 75 80
 Leu Trp Arg Gly Lys Trp Val Ile Gly Ala Phe Val Ala Ala Phe Ile
 85 90 95
 Val Leu Ala Val Val Tyr Ile Thr Val Ala Lys Glu Lys Trp Thr Ser
 100 105 110
 Ser Ala Ile Ile Ala Gln Pro Asp Ala Ala Gln Ile Ala Thr Tyr Ser
 115 120 125
 Asn Ala Leu Asn Ile Leu Tyr Gly Gly Ala Ala Pro Ser Met Leu Asp
 130 135 140
 Ile Gln Asn Arg Ala Ile Gly Arg Phe Asn Ser Ser Phe Ser Ala Leu
 145 150 155 160
 Ala Gln Ala Leu Glu Asn Gln Glu Asp Pro Glu Lys Leu Thr Ile Glu
 165 170 175
 Pro Thr Val Lys Gly Gln Ser Leu Pro Leu Thr Val Ser Tyr Gln Gly
 180 185 190
 Glu Ser Ala Asp Ala Ala Gln Lys Gln Leu Ala Gln Tyr Ile Gln Gln
 195 200 205
 Val Asp Glu Gln Thr Ala Lys Glu Leu Thr Leu Asp Leu Arg Asp Asn
 210 215 220

Leu Lys Gln Gln Ile Thr Thr Leu Asn Asp Ser Leu Gln Asn Gln Glu
 225 230 235 240
 Lys Val Ala Gln Glu Gln Lys Asp Leu Arg Ile Lys Gln Ile Ser Glu
 245 250 255
 Ala Tyr Lys Asn Ala Glu Ala Ala Asn Ile Ser Thr Pro Gln Leu Gln
 260 265 270
 Gln Thr Gln Asp Val Thr Gln Glu Thr Met Phe Leu Leu Gly Thr Val
 275 280 285
 Ala Leu Lys Ser Met Ile Asp Asn Glu Ala Ser Arg Pro Leu Val Phe
 290 295 300
 Ser Gly Ala Tyr Tyr Gln Thr Lys Gln Asn Leu Asp Ile Gln Asn
 305 310 315 320
 Leu Asn Val Asn Pro Asp Thr Ile His Val Tyr Arg Tyr Val Met Lys
 325 330 335
 Pro Asn Leu Pro Ile Arg Arg Asp Ser Pro Lys Lys Ala Ile Thr Leu
 340 345 350
 Ile Leu Ala Val Leu Leu Gly Gly Ile Ile Gly Ser Ala Val Val Leu
 355 360 365
 Gly Arg Asn Ala Leu Arg Asn Tyr Lys Pro Arg Ala
 370 375 380

<210> 7379

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 7379

Lys Ser Pro Arg Lys Ile Phe Phe Arg Gly Leu Phe Phe Gly Pro His
 1 5 10 15
 Ser Asp Arg Leu Lys Gln Val Asn Glu Glu His Arg Met Leu Asp Asn
 20 25 30
 Ser Arg Leu Arg Ile Ala Ile Gln Lys Ser Gly Arg Leu Ser Asp Asp
 35 40 45
 Ser Arg Glu Leu Leu Ala Arg Cys Gly Ile Lys Ile Asn Leu His Thr
 50 55 60
 Gln Arg Leu Ile Ala Leu Ala Glu Asn Met Pro Ile Asp Ile Leu Arg
 65 70 75 80
 Val Arg Asp Asp Asp Ile Pro Gly Leu Val Met Asp Gly Val Val Asp
 85 90 95
 Leu Gly Ile Ile Gly Glu Asn Val Leu Glu Glu Leu Leu Thr Arg
 100 105 110
 Arg Ala Gln Gly Glu Asp Pro Arg Tyr Phe Thr Leu Arg Arg Leu Asp
 115 120 125
 Phe Gly Gly Cys Arg Leu Ser Leu Ala Thr Pro Val Asp Glu Ala Trp
 130 135 140
 Asp Gly Pro Ala Ala Leu Asn Gly Lys Arg Ile Ala Thr Ser Tyr Pro
 145 150 155 160
 His Leu Leu Lys Arg Tyr Leu Asp Gln Lys Gly Val Gln Phe Lys Ser
 165 170 175
 Cys Leu Leu Asn Gly Ser Val Glu Val Ala Pro Arg Ala Gly Leu Ala
 180 185 190
 Asp Ala Ile Cys Asp Leu Val Ser Thr Gly Ala Thr Leu Glu Ala Asn
 195 200 205
 Gly Leu Arg Glu Val Glu Val Ile Tyr Arg Ser Lys Ala Cys Leu Ile
 210 215 220
 Gln Arg Asp Gly Glu Met Ala Asp Ala Lys Gln His Leu Ile Asp Lys
 225 230 235 240
 Leu Leu Thr Arg Ile Gln Gly Val Ile Gln Ala Arg Glu Ser Lys Tyr
 245 250 255
 Ile Met Met His Ala Pro Thr Glu Arg Leu Glu Glu Val Ile Ala Leu
 260 265 270

Leu Pro Gly Ala Glu Arg Pro Thr Ile Leu Pro Leu Ala Gly Asp Gln
 275 280 285
 Gln Arg Val Ala Met His Met Val Ser Ser Glu Thr Leu Phe Trp Glu
 290 295 300
 Thr Met Glu Lys Leu Lys Ala Leu Gly Ala Ser Ser Ile Leu Val Leu
 305 310 315 320
 Pro Ile Glu Lys Met Met Glu
 325

<210> 7380

<211> 363

<212> PRT

<213> *Enterobacter cloacae*

<400> 7380

Arg Pro Glu Ser Gly Glu Ser Met Ser Gln Lys Tyr Leu Phe Ile Asp
 1 5 10 15
 Arg Asp Gly Thr Ile Ile Ser Glu Pro Pro Ser Asp Phe Gln Val Asp
 20 25 30
 Arg Phe Asp Lys Leu Ala Phe Glu Pro Asp Val Ile Pro Val Leu Leu
 35 40 45
 Lys Leu Gln Lys Ala Gly Tyr Lys Leu Val Met Ile Thr Asn Gln Asp
 50 55 60
 Gly Leu Gly Thr Asp Ser Phe Pro Gln Ala Asp Phe Asp Gly Pro His
 65 70 75 80
 Asn Leu Met Met Gln Val Leu Thr Ser Gln Gly Ile Ala Phe Asp Glu
 85 90 95
 Val Leu Ile Cys Pro His Met Pro Ala Asp Lys Cys Asp Cys Arg Lys
 100 105 110
 Pro Lys Leu Lys Leu Val Glu Arg Tyr Leu Ala Glu Glu Ala Leu Asp
 115 120 125
 Lys Ala Asn Ser Tyr Val Ile Gly Asp Arg Val Thr Asp Ile Thr Leu
 130 135 140
 Ala Glu Asn Met Gly Ile Ala Gly Leu Arg Tyr Asn Arg Asp Thr Leu
 145 150 155 160
 Asn Trp Ala Met Ile Gly Glu Gln Leu Thr Arg Arg Asp Arg Tyr Ser
 165 170 175
 His Val Glu Arg Asn Thr Lys Glu Thr Gln Ile Asp Val Lys Val Trp
 180 185 190
 Leu Asp Arg Glu Gly Gly Ser Lys Ile His Thr Gly Val Gly Phe Phe
 195 200 205
 Asp His Met Leu Asp Gln Ile Ala Thr His Gly Gly Phe Arg Met Glu
 210 215 220
 Ile Thr Val Lys Gly Asp Leu Tyr Ile Asp Asp His His Thr Val Glu
 225 230 235 240
 Asp Thr Gly Leu Ala Leu Gly Glu Ala Leu Lys Leu Ala Leu Gly Asp
 245 250 255
 Lys Arg Gly Ile Asn Arg Phe Gly Phe Val Leu Pro Met Asp Glu Cys
 260 265 270
 Leu Ala Arg Cys Ala Met Asp Ile Ser Gly Arg Pro His Leu Glu Tyr
 275 280 285
 Lys Ala Asp Phe Thr Tyr Gln Arg Val Gly Asp Leu Ser Thr Glu Met
 290 295 300
 Val Glu His Phe Phe Arg Ser Leu Ser Tyr Thr Met Gly Leu Thr Leu
 305 310 315 320
 His Leu Lys Thr Lys Gly Lys Asn Asp His His Arg Val Glu Ser Leu
 325 330 335
 Phe Lys Ala Phe Gly Arg Thr Leu Arg Gln Ala Ile Arg Val Glu Gly
 340 345 350
 Asp Ala Leu Pro Ser Ser Lys Gly Val Leu
 355 360

<210> 7381
 <211> 311
 <212> PRT
 <213> Enterobacter cloacae

<400> 7381
 Arg Gly Leu Arg Ala Leu Ser Ala Gly Gly Val Ser Val Leu Trp Arg
 1 5 10 15
 Tyr Arg Arg Pro Gly Gly Tyr Arg Arg Ser Ala Arg Asn Arg Cys Thr
 20 25 30
 Trp Arg Asp Arg Gly Ser Arg Ala Ala Gly Arg Gln Ile Tyr Gly Lys
 35 40 45
 Gly Gly Asp Ser Met Leu Ala Lys Arg Ile Ile Pro Cys Leu Asp Val
 50 55 60
 Arg Asp Gly Gln Val Val Lys Gly Val Gln Phe Arg Asn His Glu Ile
 65 70 75 80
 Ile Gly Asp Ile Val Pro Leu Ala Lys Arg Tyr Ala Glu Glu Gly Ala
 85 90 95
 Asp Glu Leu Val Phe Tyr Asp Ile Thr Ala Ser Ser Asp Gly Arg Val
 100 105 110
 Val Asp Lys Ser Trp Val Ala Arg Val Ala Glu Val Ile Asp Ile Pro
 115 120 125
 Phe Cys Val Ala Gly Gly Ile Lys Ser Ala Asp Asp Ala Ala Lys Ile
 130 135 140
 Leu Ser Phe Gly Ala Asp Lys Ile Ser Ile Asn Ser Pro Ala Leu Ala
 145 150 155 160
 Asp Pro Ala Leu Ile Thr Arg Leu Ala Asp Arg Phe Gly Val Gln Cys
 165 170 175
 Ile Val Val Gly Ile Asp Thr Trp Phe Asp Thr Ala Thr Gly Lys Tyr
 180 185 190
 His Val Asn Gln Tyr Thr Gly Asp Glu Ser Arg Thr Arg Val Thr Gln
 195 200 205
 Trp Glu Thr Leu Asp Trp Val Gln Glu Val Gln Lys Arg Gly Ala Gly
 210 215 220
 Glu Ile Val Leu Asn Met Met Asn Gln Asp Gly Val Arg Asn Gly Tyr
 225 230 235 240
 Asp Leu Glu Gln Leu Lys Lys Val Arg Ala Val Cys Gln Val Pro Leu
 245 250 255
 Ile Ala Ser Gly Gly Ala Gly Thr Met Glu His Phe Leu Gln Ala Phe
 260 265 270
 Arg Asp Ala Asn Val Asp Gly Ala Leu Ala Ala Ser Val Phe His Lys
 275 280 285
 Gln Ile Ile Asn Ile Gly Glu Leu Lys Thr Tyr Leu Ala Asp Gln Gly
 290 295 300
 Val Glu Ile Arg Val Cys
 305 310

<210> 7382
 <211> 380
 <212> PRT
 <213> Enterobacter cloacae

<400> 7382
 Asn Pro Gly Arg Arg Thr Ser Asp Cys Pro Gln Lys Cys Arg Asp
 1 5 10 15
 Ala Ala Arg Cys Arg Pro Glu Gly Ala Ser Met Asn Ile Glu Leu
 20 25 30
 Ala Arg Glu Asn Val Arg Arg Leu Thr Pro Tyr Gln Ser Ala Arg Arg
 35 40 45
 Leu Gly Gly Asn Gly Asp Val Trp Leu Asn Ala Asn Glu Tyr Pro Thr

50	55	60
Pro Val Ala Phe Glu Leu	Ser Gln Gln Thr Leu Asn Arg Tyr Pro Glu	
65	70	75
Cys Gln Pro Lys Ala Val Ile Glu Asn Tyr Ala Gln Tyr Ala Gly Val		80
	85	90
Lys Pro Glu Gln Val Leu Val Ser Arg Gly Ala Asp Glu Gly Ile Glu		95
	100	105
Leu Leu Ile Arg Ala Phe Cys Glu Pro Gly Lys Asp Ala Val Met Tyr		110
	115	120
Cys Gln Pro Thr Tyr Gly Met Tyr Ser Val Ser Ala Glu Thr Phe Gly		125
	130	135
Val Ala Cys Arg Asn Val Gln Ala Leu Asp Asn Trp Gln Leu Asp Leu		140
145	150	155
Gln Gly Ile Ala Asp Asn Leu Asp Gly Val Lys Val Val Phe Val Cys		160
	165	170
Ser Pro Asn Asn Pro Thr Gly Gln Ile Ile Asn Pro Gln Asp Ile Arg		175
	180	185
Ala Leu Leu Glu Met Thr Arg Gly Lys Ala Leu Val Val Ala Asp Glu		190
	195	200
Ala Tyr Ile Glu Phe Cys Pro Gln Ala Thr Leu Ala Gly Trp Leu Glu		205
	210	215
Glu Tyr Pro His Leu Val Val Leu Arg Thr Leu Ser Lys Ala Phe Ala		220
225	230	235
Leu Ala Gly Leu Arg Cys Gly Phe Thr Leu Ala Asn Lys Ala Ile Ile		240
	245	250
Asp Leu Leu Leu Lys Val Ile Ala Pro Tyr Pro Leu Ser Thr Pro Val		255
	260	265
Ala Asp Ile Ala Ala Gln Ala Leu Ala Pro Gln Gly Ile Ser Ala Met		270
	275	280
Arg Glu Arg Val Ala Gln Ile Leu Glu Glu Arg Gln Tyr Leu Val Asp		285
	290	295
Ala Leu Lys Thr Ile Pro Cys Val Glu Lys Val Phe Asp Ser Glu Thr		300
305	310	315
Asn Tyr Ile Leu Val Arg Phe Thr Ala Ser Ser Ala Ile Phe Lys Ser		320
	325	330
Leu Trp Asp Gln Gly Ile Ile Leu Arg Asp Gln Asn Lys Gln Pro Thr		335
	340	345
Leu Ser Gly Cys Leu Arg Ile Thr Val Gly Thr Arg Ala Glu Ser Gln		350
	355	360
Arg Val Ile Asp Ala Leu Lys Ala Glu Lys Val		365
370	375	380

<210> 7383

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 7383

Leu Leu Arg Arg Ala Val Ser Pro Gly Thr Leu Arg Cys Arg Arg Cys	
1	5
Ala Thr Ala Glu Lys Phe Pro Gly Asp Val Met Ile Ile Pro Ala Leu	10
	20
Asp Leu Ile Asp Gly Thr Val Val Arg Leu His Gln Gly Asp Tyr Gly	25
	30
Gln Gln Arg Asp Tyr Gly Asn Asp Pro Leu Pro Arg Leu Gln Ala Tyr	35
	40
Ala Ala Glu Gly Ala Glu Val Leu His Leu Val Asp Leu Thr Gly Ala	45
65	50
Lys Asp Pro Ala Lys Arg Gln Ile Pro Leu Leu Lys Thr Leu Val Ala	55
	60
Gly Val Asp Val Pro Val Gln Val Gly Gly Gly Val Arg Thr Glu Ala	65
	70
	75
	80
	85
	90
	95

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      100      105      110
Asp Val Ala Ala Leu Leu Asp Ala Gly Val Ala Arg Val Val Val Gly
      115      120      125
Ser Thr Ala Val Lys Asp Pro Glu Ser Val Lys Gly Trp Phe Arg Arg
      130      135      140
Phe Gly Ala Asp Ala Leu Val Leu Ala Leu Asp Val Arg Ile Asp Glu
145      150      155      160
Gln Gly Asn Lys Gln Val Ala Val Ser Gly Trp Gln Glu Asn Ser Gly
      165      170      175
Val Thr Leu Glu Glu Leu Val Gly Met Tyr Leu Pro Val Gly Leu Lys
      180      185      190
His Val Leu Cys Thr Asp Ile Ser Arg Asp Gly Thr Leu Ala Gly Ser
      195      200      205
Asn Val Ser Leu Tyr Glu Glu Val Cys Ala Arg Tyr Pro Gln Val Ala
      210      215      220
Phe Gln Ser Ser Gly Gly Ile Gly Asp Leu Ala Asp Ile Ala Ala Leu
225      230      235      240
Arg Gly Thr Gly Val Arg Gly Val Ile Val Gly Arg Ala Leu Leu Glu
      245      250      255
Gly Lys Phe Thr Val Lys Glu Ala Ile Gln Cys Trp Gln Asn Gly
      260      265      270

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<210> 7384

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 7384

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Arg Ile Thr Ala Gly Gly Cys Thr Ala Cys Arg Phe Arg Arg Ser Ala
1      5      10      15
Asp Ala Gly Ile His Glu Pro Gly Gly Thr Asp Lys Asn Ala Arg Gln
      20      25      30
Arg Gln Gly Asn Val Phe Leu Ala His Gln Thr Ala Pro Val Asp Glu
      35      40      45
Arg Gly Asn Leu Gly Ser Leu Pro Glu Cys Gly Gln His Tyr Ala Arg
      50      55      60
Leu Arg Gln Arg His Pro Ala Gly Ala Gly Gln Pro Asp Trp Ala Tyr
65      70      75      80
Leu Pro Gln Arg His Gln Gln Leu Leu Arg Arg Asp Glu Pro Val
      85      90      95
Ala Val Pro Leu Ser Ala Gly Thr Ala Ala Gly Arg Ala
      100      105      110

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<210> 7385

<211> 339

<212> PRT

<213> Enterobacter cloacae

<400> 7385

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Met Arg Glu Ala Met Lys Phe Leu Val Thr Gly Ala Ala Gly Phe Ile
1      5      10      15
Gly Ser His Val Ser Lys Arg Leu Leu Asp Ala Gly His Glu Val Val
      20      25      30
Gly Ile Asp Asn Leu Asn Asp Tyr Tyr Asp Pro Asn Leu Lys Leu Ala
      35      40      45
Arg Leu Glu Leu Leu Lys Ser Glu Ser Phe Thr Phe His Lys Leu Asp
      50      55      60
Leu Ala Asp Arg Lys Gly Met Ala Val Leu Phe Ala Asn Glu Lys Phe
65      70      75      80
Asp Arg Val Ile His Leu Ala Ala Gln Ala Gly Val Arg Tyr Ser Leu
      85      90      95

```

Glu Asn Pro His Ala Tyr Ala Asp Ala Asn Leu Val Gly His Leu Asn
 100 105 110
 Val Leu Glu Gly Cys Arg His Asn Lys Val Gln His Leu Leu Tyr Ala
 115 120 125
 Ser Ser Ser Ser Val Tyr Gly Leu Asn Arg Lys Met Pro Phe Ser Thr
 130 135 140
 Asp Asp Ser Val Asp His Pro Val Ser Leu Tyr Ala Ala Thr Lys Lys
 145 150 155 160
 Ala Asn Glu Leu Met Ser His Thr Tyr Ser His Leu Tyr Asn Leu Pro
 165 170 175
 Thr Thr Gly Leu Arg Phe Phe Thr Val Tyr Gly Pro Trp Gly Arg Pro
 180 185 190
 Asp Met Ala Leu Phe Lys Phe Thr Lys Ala Met Ile Glu Gly Asn Ser
 195 200 205
 Ile Asp Val Tyr Asn Tyr Gly Lys Met Lys Arg Asp Phe Thr Tyr Ile
 210 215 220
 Asp Asp Ile Ala Glu Ala Ile Ile Arg Leu Gln Asp Val Ile Pro Gln
 225 230 235 240
 Ala Asp Ala Asp Trp Thr Val Glu Thr Gly Ser Pro Ala Thr Ser Ser
 245 250 255
 Ala Pro Tyr Arg Val Tyr Asn Ile Gly Asn Ser Ser Pro Val Glu Leu
 260 265 270
 Met Asp Tyr Ile Thr Ala Leu Glu Glu Ala Leu Gly Lys Glu Ala Val
 275 280 285
 Lys Asn Met Met Pro Ile Gln Pro Gly Asp Val Leu Glu Thr Ser Ala
 290 295 300
 Asp Thr Lys Ala Leu Tyr Asp Val Ile Gly Phe Lys Pro Gln Thr Ser
 305 310 315 320
 Val Lys Glu Gly Val Lys Asn Phe Val Asp Trp Tyr Arg Asn Phe Tyr
 325 330 335
 Asn Val

<210> 7386

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 7386

Glu Asp Asp Gly Val Thr Thr Met Ser Phe Asn Thr Ile Ile Asp Trp
 1 5 10 15
 Asn Thr Cys Ser Asp Ala Gln Gln Arg Glu Leu Leu Met Arg Pro Ala
 20 25 30
 Ile Ser Ala Ser Glu Ser Ile Thr Arg Thr Val Ala Glu Ile Leu Asp
 35 40 45
 Asn Val Lys Ala Arg Gly Asp Asp Ala Leu Arg Glu Tyr Ser Ala Lys
 50 55 60
 Phe Asp Lys Thr Glu Val Gly Ala Leu Gln Val Thr Glu Gln Glu Ile
 65 70 75 80
 Ile Asp Ala Ser Asn Arg Leu Gly Asp Asp Ile Lys Gln Ala Met Ala
 85 90 95
 Val Ala Val Lys Asn Ile Asp Thr Phe His Thr Ala Gln Lys Leu Gln
 100 105 110
 Ala Val Asp Val Glu Thr Leu Pro Gly Val Arg Cys Gln Gln Val Thr
 115 120 125
 Arg Pro Val Ala Ser Val Gly Leu Tyr Ile Pro Gly Gly Ser Ala Pro
 130 135 140
 Leu Phe Ser Thr Val Leu Met Leu Ala Thr Pro Ala Arg Ile Ala Gly
 145 150 155 160
 Cys Gln Lys Val Val Leu Cys Ser Pro Pro Ile Ala Asp Glu Ile
 165 170 175

Leu Tyr Ala Ala Lys Leu Cys Gly Val Gln Ala Ile Tyr Lys Val Gly
 180 185 190
 Gly Ala Gln Ala Ile Ser Ala Leu Ala Phe Gly Thr Val Ser Ile Pro
 195 200 205
 Lys Val Asp Lys Ile Phe Gly Pro Gly Asn Ala Tyr Val Thr Glu Ala
 210 215 220
 Lys Arg Gln Val Ser Gln Arg Leu Asp Gly Ala Ala Ile Asp Met Pro
 225 230 235 240
 Ala Gly Pro Ser Glu Val Leu Val Ile Ala Asp Ser Gly Ala Thr Pro
 245 250 255
 Asp Phe Val Ala Ser Asp Leu Leu Ser Gln Ala Glu His Gly Pro Asp
 260 265 270
 Ser Gln Val Ile Leu Leu Thr Pro Asp Ala Asp Met Ala Lys Arg Val
 275 280 285
 Gly Asp Ala Val Glu Arg Gln Leu Ala Asp Leu Pro Arg Ala Glu Thr
 290 295 300
 Ala Arg Gln Ala Leu Leu Ala Ser Arg Leu Ile Val Ala Arg Asp Leu
 305 310 315 320
 Asp Gln Cys Ile Ala Ile Ser Asn Gln Tyr Gly Pro Glu His Leu Ile
 325 330 335
 Ile Gln Thr Arg Asn Ala Arg Asp Leu Val Asp Ser Ile Thr Ser Ala
 340 345 350
 Gly Ser Val Phe Leu Gly Asp Trp Ser Pro Glu Ser Ala Gly Asp Tyr
 355 360 365
 Ala Ser Gly Thr Asn His Val Leu Pro Thr Tyr Gly Tyr Thr Ser Thr
 370 375 380
 Cys Ser Ser Leu Gly Leu Ala Asp Phe Gln Lys Arg Met Thr Val Gln
 385 390 395 400
 Glu Leu Ser Arg Glu Gly Phe Ala Ser Leu Ala Ser Thr Ile Glu Thr
 405 410 415
 Leu Ala Ala Ala Glu Arg Leu Thr Ala His Lys Asn Ala Val Thr Leu
 420 425 430
 Arg Val Ala Ala Leu Lys Glu Gln Ala
 435 440

<210> 7387

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 7387

Arg Pro Ala Leu Val Glu Arg Ser Ala Val Met Asn Val Val Ile Leu
 1 5 10 15
 Asp Thr Gly Cys Ala Asn Leu Asn Ser Val Gln Ser Ala Ile Met Arg
 20 25 30
 His Gly Tyr Glu Pro Val Val Ser Arg Asp Pro Asp Val Val Leu Arg
 35 40 45
 Ala Asp Lys Leu Phe Leu Pro Gly Val Gly Thr Ala Gln Ala Ala Met
 50 55 60
 Asp Gln Ile His Glu Arg Glu Leu Val Asp Leu Ile Lys Ala Cys Thr
 65 70 75 80
 Gln Pro Val Leu Gly Ile Cys Leu Gly Met Gln Leu Leu Gly Arg Arg
 85 90 95
 Ser Glu Glu Ser Asn Gly Val Asp Leu Leu Gly Ile Ile Glu Glu Asp
 100 105 110
 Val Pro Lys Met Thr Asp His Gly Leu Pro Leu Pro His Met Gly Trp
 115 120 125
 Asn Arg Val Tyr Pro Lys Ala Gly Asn Arg Leu Phe Gln Gly Ile Glu
 130 135 140
 Asp Gly Ala Tyr Phe Tyr Phe Val His Ser Tyr Ala Met Pro Val Asn
 145 150 155 160

Thr Tyr Thr Ile Ala Gln Cys Asn Tyr Gly Glu Ala Phe Thr Ala Ala
 165 170 175
 Val Gln Lys Asp Asn Phe Tyr Gly Val Gln Phe His Pro Glu Arg Ser
 180 185 190
 Gly Ala Ala Gly Ala Gln Leu Leu Lys Asn Phe Leu Glu Met
 195 200 205

<210> 7388

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 7388

Val Lys Asn Val Pro Gly Arg Pro Gly Arg Gly Asp Gln Gly Met Leu
 1 5 10 15
 Thr Glu Gln Gln Gln Ala Gln Leu Asp Trp Glu Lys Thr Asp Gly Leu
 20 25 30
 Leu Pro Val Val Val Gln His Ala Val Ser Gly Glu Val Leu Met Leu
 35 40 45
 Gly Tyr Met Asn Gln Glu Ala Leu Thr Lys Thr Leu Asp Ser Gly Lys
 50 55 60
 Val Thr Phe Phe Ser Arg Thr Lys Gln Arg Leu Trp Thr Lys Gly Glu
 65 70 75 80
 Thr Ser Gly His Phe Leu Asn Val Val Ser Ile Thr Pro Asp Cys Asp
 85 90 95
 Asn Asp Thr Leu Leu Val Leu Val Asn Pro Ile Gly Pro Thr Cys His
 100 105 110
 Lys Gly Thr Ser Ser Cys Phe Gly Glu Thr Ser His Gln Trp Leu Phe
 115 120 125
 Leu Tyr Gln Leu Glu Gln Leu Leu Ala Glu Arg Lys Ser Ala Asp Pro
 130 135 140
 Glu Ser Ser Tyr Thr Ala Lys Leu Tyr Ala Ser Gly Thr Lys Arg Ile
 145 150 155 160
 Ala Gln Lys Val Gly Glu Glu Gly Val Glu Thr Ala Leu Ala Ala Thr
 165 170 175
 Val His Asp Arg Glu Glu Leu Thr Asn Glu Ala Ser Asp Leu Met Tyr
 180 185 190
 His Leu Leu Val Leu Leu Gln Asp Gln Glu Leu Asp Leu Thr Thr Val
 195 200 205
 Ile Glu Asn Leu Arg Lys Arg His Lys
 210 215

<210> 7389

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7389

Val Ser Val Ile Trp Tyr Leu Leu Asn Ser Ala Ser Thr Leu Glu Arg
 1 5 10 15
 Leu Tyr Phe Pro Lys Val Gln His Ala Thr Asp Lys Met Ser Lys Ala
 20 25 30
 Glu Ser Glu Tyr Gln Asp Ala Val Glu Ser Arg Ser Val Leu Ile Asn
 35 40 45
 Gln Lys Thr Ala Glu Tyr Leu Ala Asn Pro Ser Glu Arg His Gly Phe
 50 55 60
 Ile Val Lys Gln Val Tyr Pro Thr Asn Gln Gln Gln Val Ile Gln Ser
 65 70 75 80
 Met Ala Glu Gln Gly Tyr Met Val His Arg Val Ser Val Gly Met Val
 85 90 95
 Thr Phe Ile Arg Met Pro Lys Asn Ala Lys Asp Asn Pro Leu Gln Glu

				100						105				110					
Ile	Thr	Asp	Lys	Ala	Lys	Ala	Glu	Ala	Glu	Ser	Thr	Ile	Asp	Lys	Met				
			115						120				125						
Ile	Glu	Arg	Leu	Lys	Val	Arg	Ala	Gly	Glu	Ala	Val	His	Gln	Arg	Asn				
			130				135					140							
Lys	Ile	Val	Thr	Glu	Ala	Arg	Lys	Ala	Leu	Asp	Ser	Ile	Lys	Ser	Phe				
			145				150				155				160				
Glu	Ser	Tyr	Leu	Asn	Val	Ile	Val	Thr	Asp	Ser	Glu	Glu	Val	Thr	Glu				
				165						170				175					

<210> 7390

<211> 853

<212> PRT

<213> Enterobacter cloacae

<400> 7390

Asn	Arg	Gly	Gln	5	Asn	Cys	Arg	Ser	Ala	Val	Phe	Pro	Gln	Pro	Arg	Ala
1										10					15	
Arg	His	His	Ala	20	Asp	Ser	Gly	Tyr	Pro	Arg	Pro	Ala	Ala	Gly	Arg	Pro
									25					30		
Leu	Arg	Pro	Pro	Pro	Ala	Ala	Gly	Glu	Arg	Tyr	Ser	Ser	Gly	Gly	Ser	
		35					40					45				
Met	Ile	Ala	Arg	Trp	Phe	Trp	Arg	Glu	Trp	Arg	Ser	Pro	Ser	Leu	Leu	
		50				55					60					
Ile	Val	Trp	Leu	Ala	Leu	Ser	Leu	Ala	Val	Ala	Cys	Val	Leu	Ala	Leu	
65					70					75					80	
Gly	Ser	Val	Ser	Asp	Arg	Met	Glu	Lys	Gly	Leu	Ser	Gln	Gln	Ser	Arg	
				85					90					95		
Glu	Phe	Met	Ala	Gly	Asp	Arg	Ala	Leu	Gln	Ser	Ser	Arg	Pro	Val	Pro	
			100					105					110			
Pro	Gly	Trp	Ile	Glu	Glu	Ala	Arg	Lys	Glu	Gly	Leu	Lys	Val	Gly	Glu	
		115					120					125				
Gln	Ile	Thr	Phe	Gln	Thr	Met	Thr	Phe	Ala	Gly	Asp	Thr	Pro	Gln	Leu	
		130				135					140					
Ala	Ser	Val	Lys	Ala	Val	Asp	Asp	Ile	Tyr	Pro	Met	Tyr	Gly	Asp	Leu	
145					150					155					160	
Gln	Thr	Ser	Pro	Pro	Gly	Leu	Lys	Pro	Thr	Ala	Gly	Thr	Val	Leu	Leu	
				165					170				175			
Ala	Ser	Arg	Leu	Met	Ala	Leu	Leu	Asn	Leu	Lys	Pro	Gly	Asp	Ser	Ile	
			180					185					190			
Asp	Val	Gly	Asp	Ala	Thr	Leu	Lys	Ile	Ala	Gly	Glu	Val	Val	Gln	Glu	
		195					200					205				
Pro	Asp	Ser	Gly	Phe	Asn	Pro	Phe	Gln	Leu	Ala	Pro	Arg	Leu	Leu	Met	
		210			215						220					
Asn	Thr	Ala	Asp	Val	Ala	Lys	Thr	His	Ala	Val	Gln	Pro	Gly	Ser	Arg	
225				230					235						240	
Val	Thr	Trp	Arg	Tyr	Lys	Phe	Gly	Gly	Thr	Pro	Ala	Gln	Leu	Glu	Ala	
			245						250				255			
Tyr	Glu	Lys	Trp	Leu	Leu	Pro	Gln	Leu	Lys	Pro	Glu	His	Arg	Trp	Tyr	
		260						265					270			
Gly	Leu	Glu	Gln	Asp	Asp	Gly	Ala	Leu	Gly	Lys	Ser	Leu	Glu	Arg	Ser	
		275					280					285				
Gln	Gln	Phe	Leu	Leu	Leu	Ser	Ala	Leu	Leu	Thr	Leu	Leu	Leu	Ala	Ile	
		290				295				300						
Ala	Ala	Val	Ala	Val	Ala	Met	Gly	His	Tyr	Cys	Arg	Ser	Arg	Tyr	Asp	
305					310					315					320	
Leu	Val	Ala	Ile	Leu	Lys	Thr	Leu	Gly	Ala	Gly	Arg	Ala	Gln	Leu	Arg	
			325						330				335			
Lys	Leu	Ile	Val	Gly	Gln											

340										345										350									
Thr	Gly	Gly	Ala	Ile	Gly	Leu	Leu	Phe	Glu	Lys	Leu	Leu	Met	Val	Leu														
		355											360																
Leu	Lys	Pro	Val	Leu	Pro	Ala	Ala	Leu	Pro	Pro	Ala	Ser	Leu	Trp	Pro														
		370											380																
Trp	Leu	Trp	Ala	Ile	Gly	Ala	Met	Thr	Thr	Ile	Ser	Leu	Leu	Val	Gly														
		385											395																
Leu	Arg	Pro	Tyr	Arg	Leu	Leu	Leu	Ala	Thr	Gln	Pro	Leu	Arg	Val	Leu														
		405											410																
Arg	Arg	Asp	Val	Val	Ala	Ser	Val	Trp	Pro	Leu	Lys	Phe	Tyr	Leu	Pro														
		420											430																
Val	Ile	Ile	Ala	Val	Ala	Val	Gly	Leu	Leu	Ala	Trp	Leu	Met	Gly	Gly														
		435											445																
Ser	Thr	Leu	Leu	Trp	Ala	Val	Leu	Ala	Gly	Ala	Val	Val	Leu	Ala	Leu														
		450											460																
Leu	Cys	Gly	Val	Val	Gly	Trp	Ile	Leu	Leu	Asn	Val	Leu	Arg	Lys	Leu														
		465											475																
Thr	Val	Lys	Ser	Leu	Pro	Ile	Arg	Leu	Ala	Val	Asn	Arg	Leu	Leu															

Gly Gly Trp Leu Gly Ser Arg Leu Leu Lys Gly Lys Ala Leu Phe Arg
 835 840 845
 Gln Phe Val Ser
 850

<210> 7391

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 7391

Arg Cys Val Ala Glu Arg Ile Met Leu Lys Ala Leu Leu Ile Thr Ala
 1 5 10 15
 Val Asn Gly Ile Gly Met Asn Asn Lys Lys Asn Leu Leu Asp Ile Arg
 20 25 30
 Asp Val Gly Phe Arg Val Gly Asp Asn Thr Ile Leu Gln His Val Asp
 35 40 45
 Phe Cys Leu Ser Pro Gly Glu Phe Lys Leu Ile Thr Gly Pro Ser Gly
 50 55 60
 Cys Gly Lys Ser Thr Leu Lys Ile Val Ala Ser Leu Leu Ser Pro
 65 70 75 80
 Thr Glu Gly Thr Ile Leu Phe Ala Gly Lys Asp Ile Ala Thr Phe Ser
 85 90 95
 Ser Glu Ser Tyr Arg Gln Gln Val Ser Tyr Cys Val Gln Thr Pro Ser
 100 105 110
 Leu Phe Gly Asp Thr Val Tyr Asp Asn Leu Val Phe Pro Trp His Ile
 115 120 125
 Arg Asn Gln Thr Pro Asp Pro Lys Lys Phe Thr Asp Asp Leu Thr Arg
 130 135 140
 Phe Gly Leu Ser Pro Glu Thr Leu Thr Lys Ser Ile Ala Glu Leu Ser
 145 150 155 160
 Gly Gly Glu Lys Gln Arg Val Ser Leu Ile Arg Asn Leu Gln Phe Leu
 165 170 175
 Pro Lys Ala Leu Leu Leu Asp Glu Ile Thr Ser Ala Leu Asp Asp Ala
 180 185 190
 Asn Lys Arg Asn Val Asn Asp Ile Ile His Arg Tyr Ala Arg Glu Gln
 195 200 205
 Asn Ile Ala Val Leu Trp Val Thr His Asp Ser Asn Glu Ile Thr His
 210 215 220
 Ala Asp Asp Val Ile Thr Leu Arg Pro Gln Gly Lys Met Glu Glu
 225 230 235 240
 Ala His Arg Gly
 245

<210> 7392

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 7392

Arg Val Arg Ser Arg Arg Ala Glu Gly His Gln His Gln Lys Gln Glu
 1 5 10 15
 Gly Gln Met Pro Ala Glu Asn Ile Val Glu Val His Arg Leu Lys Lys
 20 25 30
 Ser Val Gly Gln Gly Glu His Glu Leu Ser Ile Leu Thr Gly Val Glu
 35 40 45
 Leu Val Val Lys Arg Ala Glu Thr Ile Ala Leu Ile Gly Glu Ser Gly
 50 55 60
 Ser Gly Lys Ser Thr Leu Leu Ala Ile Leu Ala Gly Leu Asp Asp Gly
 65 70 75 80
 Ser Ser Gly Glu Val Asn Leu Val Gly Gln Pro Leu His Ala Leu Asp

85 90 95
 Glu Glu Ala Arg Ala Leu Arg Ala Arg His Ile Gly Phe Val Phe
 100 105 110
 Gln Ser Phe Met Leu Ile Pro Thr Leu Asn Ala Leu Glu Asn Val Glu
 115 120 125
 Leu Pro Gly Leu Leu Arg Gly Glu Asn Thr Arg Glu Ser Arg Asp His
 130 135 140
 Ala Lys Ala Leu Leu Glu Gln Leu Gly Leu Gly Lys Arg Leu Asp His
 145 150 155 160
 Leu Pro Ala Gln Leu Ser Gly Gly Glu Gln Gln Arg Val Ala Leu Ala
 165 170 175
 Arg Ala Phe Asn Gly Arg Pro Glu Val Leu Phe Ala Asp Glu Pro Thr
 180 185 190
 Gly Asn Leu Asp Arg Lys Thr Gly Asp Lys Ile Ala Asp Leu Leu Phe
 195 200 205
 Ser Leu Asn Arg Glu His Gly Thr Thr Leu Ile Leu Val Thr His Asp
 210 215 220
 Pro Gln Leu Ala Ala Arg Cys Asp Arg Arg Leu Arg Leu Val Asn Gly
 225 230 235 240
 Ile Leu Gln Glu Glu Ala
 245

<210> 7393

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 7393

Lys Thr Gln Lys Thr Gly Gly Tyr Arg Arg Phe Phe Cys Leu Gln Met
 1 5 10 15
 Gln Ile Arg Asn Lys Glu Cys Arg His Glu Leu Leu Ala Asp Gly His
 20 25 30
 Ala Cys Asn His Asn Val Phe Phe Arg Asn Val Leu Val His Thr Ala
 35 40 45
 Ala Ala Ser Arg Asn Gly Phe Asp Leu Val Asp His Val His Pro Phe
 50 55 60
 Asn His Phe Cys Glu Tyr Ala Val Ala Pro Ala Leu Gln Thr Phe Ala
 65 70 75 80
 Arg Glu Val Gln Glu Val Val Val Arg Tyr Val Asp Glu Glu Leu Cys
 85 90 95
 Gly Cys Arg Met Trp Arg Leu Ser Thr Gly His Cys Gln Arg Thr Thr
 100 105 110
 Gly Val Phe Gln Ala Val Val Arg Phe Val Phe Asp Arg Phe Phe Arg
 115 120 125
 Leu Phe Leu Ala His Ala Arg Leu Glu Thr Ala Ala Leu Asp His Lys
 130 135 140
 Ala Val Asp His Thr Val Glu Asn Ser Val Val Val Glu Thr Phe Ala
 145 150 155 160
 Ala Val Val Gln Glu Val Phe Asn Cys Phe Arg Arg Phe Val Ile Lys
 165 170 175
 Gly Phe Asp Tyr Asp Ile Ala Met Ile Ser Val Glu Ser Asn His Phe
 180 185 190
 Cys Ile Leu Phe Arg Tyr Cys Gly Ala Ser Thr Arg Ala Arg Val Thr
 195 200 205
 Tyr Arg Gly Leu Leu
 210

<210> 7394

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 7394

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Arg Met Ile Gln Met Lys Leu Pro Met Arg Met Met Ser Ser Arg Ser
1      5      10      15
Gly Arg Arg Ala Gly Lys Trp Arg Arg Leu Thr Val Gly Glu His Asn
20      25      30      35
Ile Thr Asn Glu Ser Leu Ala Leu Ser Met Val Leu Val Leu Val Ala
40      45      50      55
Ile Val Val Ser Tyr Arg Glu Lys Leu Gly Leu Glu Lys Asp Ile Leu
60      65      70      75
Trp Ser Ile Ala Arg Ala Val Ile Gln Leu Ile Val Gly Tyr Val
80      85      90      95
Leu Lys Tyr Ile Phe Asn Val Asn His Ala Val Leu Thr Leu Leu Met
100      105      110      115
Val Leu Phe Ile Cys Phe Asn Ala Ala Trp Asn Ala Gln Lys Arg Ser
120      125      130      135
Lys Tyr Ile Asp Lys Ala Phe Ile Ser Ser Leu Ile Ala Ile Thr Thr
140      145      150      155
Gly Thr Ala Leu Thr Leu Ala Val Leu Val Leu Ser Gly Ser Ile Glu
160      165      170      175
Phe Thr Pro Met Gln Val Ile Pro Ile Ser Gly Met Ile Ala Gly Asn
180      185      190      195
Ala Met Val Ala Val Gly Leu Cys Tyr Asn Asn Leu Gly Gln Arg Phe
200      205      210      215
Ser Ser Glu Gln Gln Gln Leu Gln Glu Lys Leu Ser Leu Gly Ala Thr
220      225      230      235
Pro Lys Val Ala Ser Ala Arg Leu Ile Arg Asp Ser Ile Arg Ser Ser
240      245      250      255
Leu Ile Pro Thr Val Asp Ser Ala Lys Thr Val Gly Leu Val Ser Leu
260      265      270      275
Pro Gly Met Met Ser Gly Leu Ile Phe Ala Gly Ile Asp Pro Val Lys
280      285      290      295
Ala Ile Lys Tyr Gln Ile Met Val Thr Phe Met Leu Leu Ser Thr Ala
300      305      310      315
Ser Leu Ser Thr Ile Ile Ala Cys Tyr Leu Thr Tyr Arg Lys Phe Tyr
320      325      330      335
Asn Ala Arg His Gln Leu Val Val Thr Gln Leu Lys Lys Thr Gly
340      345      350      355

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<210> 7395

<211> 389

<212> PRT

<213> *Enterobacter cloacae*

<400> 7395

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Arg Val Tyr Gln Gly Lys Arg Met Thr Ile Arg Lys Thr Ala Leu Ala
1      5      10      15
Thr Thr Ile Gly Ala Ala Val Ala Leu Ala Ser Phe Ala Ser Gln Ala
20      25      30      35
Glu Ile Thr Leu Leu Lys Gln Asp Pro Gln Ala Gly Asn Pro Leu Ser
40      45      50      55
Arg Leu Asn Phe Thr Val Gly Gly Ser Ile Arg Pro Gln Phe Gln Asn
60      65      70      75
Met Thr Gly Asp Asp Gly Lys Asn Gly Tyr Lys Arg Asn Gly Phe Asp
80      85      90      95
Gly Gly Thr Arg Phe Arg Phe Ala Ala Asp Tyr Tyr Leu Phe Asp Asp
100      105      110      115
Ile Ser Trp Ile Thr Tyr Tyr Glu Leu Gly Val Asn Ile Pro Ala Gln
120      125      130      135
Phe Asn Trp Asp Asn His Tyr Ala Asp Gly Ala His Asp Thr Ser Arg
140      145      150      155

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Arg Met Leu Tyr Thr Gly Leu Lys Ser Asp Thr Trp Gly Thr Leu Thr
 130 135 140
 Phe Gly Gln Gln Asn Ser Val Tyr Tyr Asp Val Val Gly Ala Lys Thr
 145 150 155 160
 Asp Ile Trp Asp Tyr Asp Met Ile Gly Gln Ala Pro Gly Asn Gly Ile
 165 170 175
 Asn Gly Asp Tyr Asp Gly Ser Tyr Arg Ser Arg Gln Met Leu Lys Tyr
 180 185 190
 Lys Lys Thr Val Gly Asp Ala Asp Ile Tyr Ala Ser Tyr Leu Phe Glu
 195 200 205
 Asp Ser Glu Tyr Leu Pro Gly Asn Gly Leu Arg Tyr Lys Arg Lys Gly
 210 215 220
 Gly Gly Ser Leu Gly Ile Asp Tyr His Leu Thr Thr Asp Leu Thr Trp
 225 230 235 240
 Gly Ala Ala Trp Asn Tyr Thr Arg Ala Asp Met Arg Asn Pro Asp Asn
 245 250 255
 Gly Asp Ser Lys Ser Tyr Asp Gln Asn Ile Leu Gly Thr Ala Leu Ser
 260 265 270
 Trp Thr Pro Asp Asn Trp Thr Phe Ser Ala Gly Gly Gly Trp Tyr Gln
 275 280 285
 Asn Phe Leu Thr Thr Lys Lys Val Ser Val Asn Asp Tyr Phe Ala Gly
 290 295 300
 Asp Ala Trp Gly Ile Glu Tyr Phe Ala Gly Tyr Lys Phe Pro Val Gly
 305 310 315 320
 Gln Tyr Ala Val Lys Ser Ile Gln Pro Tyr Phe Met Gly Asp Arg Ile
 325 330 335
 Glu Tyr Val Asn Gly Arg Asn Tyr Gln Arg Ile Asp Asn Gly Val Gly
 340 345 350
 Ile Ser Phe Gln Leu Asp Tyr Gly Phe Arg Val Asp Tyr Glu His Val
 355 360 365
 Phe Thr Ser Cys Thr Asp Asn Leu Gly Asp Met Asn Leu Val Arg Leu
 370 375 380
 Arg Tyr Asp Phe
 385

<210> 7396

<211> 527

<212> PRT

<213> Enterobacter cloacae

<400> 7396

Leu Val Trp Lys Val Thr Ile Phe Ala Ser Cys Ser Val Ile Val Val
 1 5 10 15
 Arg Arg Pro Val Leu Gly Ser His Ile Gly Ala Cys Tyr Ser Ile Thr
 20 25 30
 Thr Gly His Asp His Leu Ala Leu Cys Ala Asp Arg Thr Pro Asn Tyr
 35 40 45
 Gly Tyr Tyr Lys Glu Gln Thr Ile His Thr Arg Val Tyr Met Glu Ser
 50 55 60
 Ser Met Leu Lys Ile Phe Asn Thr Met Thr Arg Gln Lys Glu Glu Phe
 65 70 75 80
 Lys Pro Ile His Ala Gly Glu Val Gly Met Tyr Val Cys Gly Ile Thr
 85 90 95
 Val Tyr Asp Leu Cys His Ile Gly His Gly Arg Thr Phe Val Ala Phe
 100 105 110
 Asp Val Val Ser Arg Tyr Leu Arg Phe Leu Gly Tyr Asn Leu Lys Tyr
 115 120 125
 Val Arg Asn Ile Thr Asp Ile Asp Asp Lys Ile Ile Lys Arg Ala Asn
 130 135 140
 Glu Asn Gly Glu Ser Phe Val Ala Leu Val Asp Arg Met Ile Ala Glu
 145 150 155 160

Met His Lys Asp Phe Asp Ala Leu Asn Ile Leu Arg Pro Asp Ser Glu
 165 170 175
 Pro Arg Ala Thr His His Ile His Glu Ile Ile Asp Ile Thr Gln Lys
 180 185 190
 Leu Ile Glu Arg Gly His Ala Tyr Val Ala Asp Asn Gly Asp Val Met
 195 200 205
 Phe Ser Val Pro Thr Asp Pro Thr Tyr Gly Ala Leu Ser Arg Gln Asp
 210 215 220
 Leu Asp Gln Leu Gln Ala Gly Ala Arg Val Asp Val Val Asp Val Lys
 225 230 235 240
 Arg Asn Pro Met Asp Phe Val Leu Trp Lys Met Ser Lys Ala Gly Glu
 245 250 255
 Pro Ser Trp Pro Ser Pro Trp Gly Glu Gly Arg Pro Gly Trp His Ile
 260 265 270
 Glu Cys Ser Ala Met Asn Cys Lys Gln Leu Gly Asn His Phe Asp Ile
 275 280 285
 His Gly Gly Gly Ser Asp Leu Met Phe Pro His His Glu Asn Glu Ile
 290 295 300
 Ala Gln Ser Thr Cys Ala His Gly Gly Glu Tyr Val Asn Tyr Trp Met
 305 310 315 320
 His Ser Gly Met Val Met Val Asp Arg Glu Lys Met Ser Lys Ser Leu
 325 330 335
 Gly Asn Phe Phe Thr Val Arg Asp Val Leu Lys Tyr Tyr Asp Ala Glu
 340 345 350
 Thr Val Arg Tyr Phe Leu Met Ser Gly His Tyr Arg Ser Gln Leu Asn
 355 360 365
 Tyr Ser Glu Glu Asn Leu Lys Gln Ala Arg Ala Ala Leu Glu Arg Leu
 370 375 380
 Tyr Thr Ala Leu Arg Gly Thr Asp Lys Ser Val Pro Ala Ala Gly Gly
 385 390 395 400
 Glu Ala Phe Glu Ala Arg Phe Val Glu Val Met Asn Asp Asp Phe Asn
 405 410 415
 Thr Pro Glu Ala Tyr Ser Val Leu Phe Asp Met Ala Arg Glu Val Asn
 420 425 430
 Arg Leu Lys Ser Glu Asp Met Ala Ala Ala Asn Ala Leu Ala Ser His
 435 440 445
 Leu Arg Lys Leu Ser Ser Val Leu Gly Leu Leu Glu Gln Glu Pro Asp
 450 455 460
 Val Phe Leu Gln Ser Gly Ala Gln Ala Asp Asp Gly Glu Val Ala Glu
 465 470 475 480
 Ile Glu Ala Leu Ile Lys Ala Arg Leu Glu Ala Arg Gln Ala Lys Asp
 485 490 495
 Trp Ala Ala Ala Asp Ala Ala Arg Asn Arg Leu Thr Glu Met Gly Ile
 500 505 510
 Ile Leu Glu Asp Gly Pro Gln Gly Thr Thr Trp Arg Arg Lys
 515 520 525

<210> 7397

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 7397

Asn Val Leu Leu Thr Ile Thr Ala Gln Lys Lys Arg Tyr Ser Gly Glu
 1 5 10 15
 Ile Ser Met Ser Leu Ile Ser Gly Phe Val Lys Ser Leu Ser Lys Leu
 20 25 30
 Ser Met Ile Gly Arg Ala Leu Met Leu Pro Ile Ser Leu Leu Pro Ala
 35 40 45
 Ala Gly Leu Leu Leu Ala Phe Gly Asp Lys Phe His Leu Pro Leu Met
 50 55 60

Met Asn Ala Gly Gly Val Ile Phe Asp Asn Leu Pro Met Leu Phe Ala
 65 70 75 80
 Ile Gly Ser Ala Val Gly Leu Ala Ser Glu Ser Gly Ile Ala Ala Leu
 85 90 95
 Ser Ala Ala Val Ser Val Phe Val Thr Asn Ile Thr Ile Ser Thr Val
 100 105 110
 Leu Ser Ile Thr Pro Glu Met Ala Ser Gln Gly Gly Lys Tyr Ala Met
 115 120 125
 Val Val Gly Ile Pro Thr Leu Gln Met Gly Val Phe Gly Gly Leu Ile
 130 135 140
 Cys Gly Ile Leu Ala Ala Trp Cys Tyr Asn Arg Phe His Thr Met Gln
 145 150 155 160
 Leu Pro Glu Phe Leu Gly Phe Phe Ser Gly Lys Arg Phe Val Ala Ile
 165 170 175
 Ala Thr Ala Phe Leu Ser Phe Leu Leu Gly Leu Leu Leu Tyr Val
 180 185 190
 Trp Gln His Ile Gln Ser Gly Ile Asp Ala Leu Ser Val Val Val Asn
 195 200 205
 Gly Asp Asn Gln Ala Ala Ser Thr Phe Ile Phe Gly Leu Val Glu Arg
 210 215 220
 Ala Leu Ile Pro Leu Gly Leu His His Ile Trp Tyr Pro Ser Phe Trp
 225 230 235 240
 Tyr Ser Phe Gly Asp Tyr Thr Thr Gln Ala Gly Gln Val Ile His Gly
 245 250 255
 Asp Gln Thr Ile Trp Phe Lys Met Leu Glu Gly Val Lys Ser Phe
 260 265 270
 Ser Ser Asp Thr Tyr Gln Asn Ala Gly Lys Phe Met Gln Gly Glu Phe
 275 280 285
 Pro Leu Met Leu Phe Ala Leu Pro Ala Ala Cys Leu Ala Met Tyr His
 290 295 300
 Glu Ala His Thr Lys Asn Lys Lys Ile Ala Ala Gly Ile Leu Phe Ser
 305 310 315 320
 Ala Ala Leu Thr Cys Phe Leu Thr Gly Ile Thr Glu Pro Val Glu Phe
 325 330 335
 Thr Phe Ile Phe Val Ala Pro Ile Leu Tyr Val Phe Asn Ala Ile Met
 340 345 350
 Ala Gly Leu Ala Tyr Met Thr Met Tyr Leu Leu His Ala His Ile Ala
 355 360 365
 Lys Ser Phe Ser Ala Gly Phe Ile Asp Tyr Leu Ser Phe Gly Ile Leu
 370 375 380
 Pro Ser Phe Asn Gly Tyr Gln Thr Asn Phe Leu Ser Ala Ile Ile Val
 385 390 395 400
 Gly Ile Pro Met Ala Leu Ile Tyr Tyr Phe Thr Phe Arg Phe Val Ile
 405 410 415
 Arg Arg Phe Asp Val Lys Thr Pro Gly Arg Thr Glu Val Thr Ala Ser
 420 425 430
 Ala Asn Asp Lys Ser Asp Ser Glu Leu Ala Thr Glu Ile Ile Gly Leu
 435 440 445
 Leu Gly Gly Ala Gln Asn Ile Asp Ser Val Gly Ser Cys Ile Thr Arg
 450 455 460
 Leu Arg Leu Glu Val Ala Asn Ser Glu Ala Val Asp Arg Asp Gly Leu
 465 470 475 480
 Asn Gly Leu Gly Ala Arg Gly Val Val Phe Val Gly Asp Asn Gly Ile
 485 490 495
 Gln Val Ile Phe Gly Ala Arg Ala Gln Phe Ile Ala Gln Thr Met Ser
 500 505 510
 Thr Met Ile Gly Lys
 515

<210> 7398

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 7398

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Leu Leu Tyr Phe His Asp Leu Pro Trp Ile Asn Ala Met Pro Thr Val
1      5      10
Ile Thr His Ala Val Pro Leu Cys Leu Gly Leu Gly Leu Gly Thr
20      25      30
Asn Val Ile Pro Pro Arg Leu Leu Phe Ala Gly Ile Val Leu Ala Met
35      40      45
Leu Pro Asp Ala Asp Val Leu Ala Phe Lys Phe Gly Val Ala Tyr Gly
50      55      60
Asn Ile Phe Gly His Arg Gly Phe Thr His Ser Leu Leu Phe Ala Leu
65      70      75
Val Val Pro Ile Leu Cys Val Leu Ala Gly Arg Arg Trp Phe Arg Ala
85      90      95
Ser Leu Thr Arg Cys Trp Leu Phe Leu Thr Val Ser Leu Leu Ser His
100     105     110
Ser Leu Leu Asp Ser Ile Thr Thr Gly Gly Lys Gly Val Gly Trp Leu
115     120     125
Trp Pro Trp Ser Asp Glu Arg Phe Phe Ala Pro Trp Gln Val Ile Lys
130     135     140
Val Ala Pro Phe Ala Leu Ser Arg Tyr Thr Thr Pro Tyr Gly His Glu
145     150     155
Val Ile Ile Ser Glu Leu Leu Trp Val Trp Leu Pro Gly Met Val Leu
165     170     175
Met Gly Met Leu Trp Trp Arg Lys Arg Ala Arg
180     185

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<210> 7399

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 7399

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Ser Pro Ser Arg Phe Asn Pro Pro Arg Leu Phe Ala His Phe Pro Thr
1      5      10      15
Thr Gln Pro Phe Ser Leu Pro Val Leu His Ala Ile Leu Cys Ala Leu
20      25      30
Glu Ser Ser Val Phe Arg Thr Thr Gly Val Leu Arg Arg Met Ser Ser
35      40      45
Arg Asn Asn Pro Ala Arg Val Ala Ile Val Met Gly Ser Lys Ser Asp
50      55      60
Trp Ala Thr Met Gln Phe Ala Ala Glu Ile Phe Glu Ile Leu Asn Val
65      70      75
Pro His His Val Glu Val Val Ser Ala His Arg Thr Pro Asp Lys Leu
85      90      95
Phe Ser Phe Ala Glu Ser Ala Glu Glu Asn Gly Tyr Glu Val Ile Ile
100     105     110
Ala Gly Ala Gly Gly Ala Ala His Leu Pro Gly Met Ile Ala Ala Lys
115     120     125
Thr Leu Val Pro Val Leu Gly Val Pro Val Gln Ser Ala Ala Leu Ser
130     135     140
Gly Val Asp Ser Leu Tyr Ser Ile Val Gln Met Pro Arg Gly Ile Pro
145     150     155
Val Gly Thr Leu Ala Ile Gly Lys Ala Gly Ala Ala Asn Ala Ala Leu
165     170     175
Leu Ala Ala Gln Ile Leu Ala Thr His Asp Lys Glu Leu His Gln Arg
180     185     190
Leu Ala Glu Trp Arg Lys Ala Gln Thr Asp Glu Val Leu Asp Asn Pro
195     200     205

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Asp Pro Arg Gly Ala Ala
210 215

<210> 7400
<211> 99
<212> PRT
<213> Enterobacter cloacae

<400> 7400
Arg Ile Pro Phe Thr Ser Arg Arg Arg Ser Gln Arg Ala Ser
1 5 10 15
Cys Gly Ser Trp Val Thr Arg Ile Ser Val Val Pro Cys Ser Arg Leu
20 25 30
Arg Glu Asn Ser Arg Ser Ala Ile Leu Ser Pro Val Leu Arg Ser Arg
35 40 45
Leu Pro Val Gly Ser Ser Ala Asn Ser Thr Ser Gly Arg Pro Leu Asn
50 55 60
Ala Leu Ala Ser Ala Thr Arg Cys Cys Ser Pro Glu Ser Cys Ala
65 70 75 80
Gly Arg Trp Ser Arg Arg Phe Pro Ser Pro Cys Ser Ser Asn Ala
85 90 95
Phe Ala

<210> 7401
<211> 271
<212> PRT
<213> Enterobacter cloacae

<400> 7401
Ile Met Thr Arg Gln Thr Ala Glu Asn Leu Thr Gly Lys Val Met Gln
1 5 10 15
Lys Ser Val Leu Ile Thr Gly Cys Ser Ser Gly Ile Gly Leu Glu Ser
20 25 30
Ala Leu Glu Leu Lys Arg Gln Gly Phe Trp Val Leu Ala Ala Cys Arg
35 40 45
Lys Pro Glu Asp Val Glu Arg Met Arg Gly Leu Gly Phe Thr Gly Ile
50 55 60
Leu Leu Asp Leu Asp Ser Pro Glu Ser Val Glu Gln Ala Ala Asp Glu
65 70 75 80
Val Ile Ala Leu Thr Asn Asn Arg Leu Tyr Gly Leu Phe Asn Asn Ala
85 90 95
Gly Tyr Gly Val Tyr Gly Pro Leu Gln Thr Leu Ser Arg Glu Gln Leu
100 105 110
Glu Gln Gln Phe Ser Ala Asn Phe Phe Gly Ala His Gln Leu Thr Met
115 120 125
Arg Leu Leu Pro Ala Met Leu Pro His Gly Glu Gly Arg Ile Val Met
130 135 140
Thr Ser Ser Val Met Gly Leu Ile Ser Thr Pro Gly Arg Gly Ala Tyr
145 150 155 160
Ala Ala Ser Lys Tyr Ala Leu Glu Ala Trp Ser Asp Ala Leu Arg Met
165 170 175
Glu Leu Arg His Ser Gly Ile Lys Val Ser Leu Ile Glu Pro Gly Pro
180 185 190
Ile Arg Thr Arg Phe Thr Glu Asn Val Asn Gln Thr Gln Ala Asp Lys
195 200 205
Pro Val Glu Asn Pro Gly Ile Ala Ala Arg Phe Thr Leu Gly Pro Glu
210 215 220
Ala Val Val Ala Lys Val Arg His Ala Phe Glu Ser Asp Thr Pro Lys
225 230 235 240
Met Arg Tyr Pro Val Thr Leu Val Thr His Ala Val Gly Trp Leu Lys

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<210> 7402
<211> 177
<212> PRT
<213> Enterobacter cloacae
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```
<210> 7403
<211> 114
<212> PRT
<213> Enterobacter cloacae
```

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<210> 7404
<211> 292
<212> PRT
```

<213> *Enterobacter cloacae*

<400> 7404

```

Thr Asp Lys Arg Glu Cys Arg Met Ser Val Gln Asn Ile Val Asn Ile
1      5      10      15
Thr Glu Ala Asn Leu Gln Gln Thr Leu Glu Gln Ser Met Thr Lys Pro
      20      25      30
Val Leu Phe Tyr Phe Trp Ser Glu Arg Ser Gln His Cys Leu Gln Leu
      35      40      45
Thr Pro Val Leu Glu Ser Leu Ala Ala Gln Tyr Asn Gly Gln Phe Ile
      50      55      60
Leu Ala Lys Leu Asp Cys Asp Ala Glu Pro Met Val Ala Ser Gln Phe
65      70      75      80
Gly Leu Arg Ala Ile Pro Thr Val Tyr Leu Phe Gln Asn Gly Gln Pro
      85      90      95
Val Asp Gly Phe Gln Gly Pro Gln Pro Glu Glu Ala Ile Arg Ala Leu
      100      105      110
Leu Asp Lys Val Leu Pro Arg Glu Glu Glu Leu Lys Ala Gln Glu Ala
      115      120      125
Met Ala Leu Met Gln Glu Gly Lys Tyr Asp Glu Ala Leu Pro Leu Leu
130      135      140
Lys Asp Ala Trp Gln Leu Ser Asn Gln Asn Ser Gln Ile Gly Leu Leu
145      150      155      160
Leu Ala Glu Thr Gln Ile Ala Leu His Arg Pro Glu Asp Ala Glu Ala
      165      170      175
Val Leu Lys Thr Val Pro Met Gln Asp Gln Asp Thr Arg Tyr Gln Gly
      180      185      190
Leu Val Ala Gln Ile Asp Leu Leu Lys Gln Ala Ala Asp Thr Pro Glu
      195      200      205
Ile Gln Gln Leu Gln Gln Gln Val Ala Asp Asn Pro Gln Asp Ala Ala
210      215      220
Leu Ala Ser Gln Leu Ala Leu Gln Leu His Gln Val Gly Arg Asn Glu
225      230      235      240
Glu Ala Leu Glu Leu Leu Phe Ser His Leu Gln Lys Asp Leu Gly Ala
      245      250      255
Ala Asp Gly Gln Ala Arg Lys Met Phe Gln Glu Ile Leu Ala Ala Leu
      260      265      270
Gly Thr Gly Asp Ala Leu Ala Ser Lys Tyr Arg Arg Gln Leu Tyr Ala
      275      280      285
Leu Leu Tyr
290

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<210> 7405

<211> 83

<212> PRT

<213> *Enterobacter cloacae*

<400> 7405

```

Ser Leu Gly Ser Ala Asn Arg Val Leu Phe Gly Gly Glu Trp Ile Lys
1      5      10      15
Glu Gly Ala Leu Val Val Asp Val Gly Ile Asn Arg Leu Glu Asn Gly
      20      25      30
Lys Val Val Gly Asp Val Val Tyr Glu Asp Ala Ala Arg Ala Ser
      35      40      45
Tyr Ile Thr Pro Val Pro Gly Gly Val Gly Pro Met Thr Val Ala Thr
      50      55      60
Leu Ile Gln Asn Thr Leu Gln Ala Cys Glu Glu Tyr His Asp Val Glu
65      70      75      80
Asp Ala

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<210> 7406
 <211> 391
 <212> PRT
 <213> Enterobacter cloacae

<400> 7406
 Arg Asp Thr Gly Asp Phe Arg Gly Gln Ser Thr Val Tyr Arg Pro Asp
 1 5 10 15
 Asp Val Tyr Asp Asp Trp Gln Ile Ile Arg Cys Leu Lys Glu Ala Ser
 20 25 30
 Pro Val Arg Trp Gly Ser Pro Leu Ile Trp Leu Ile Ile Gly Lys Phe
 35 40 45
 Gln Gly Ala Val Leu Lys Lys Val Ser Ile Ile Asp Val Ala Lys His
 50 55 60
 Ala Gly Val Ser Val Ser Thr Val Ser Leu Val Leu Arg Gln Lys Gly
 65 70 75 80
 Lys Ile Ser Glu Ala Thr Ile Gly Lys Val Asn Ala Ala Ile Thr Thr
 85 90 95
 Leu Gly Tyr Val His Asn Val Ala Ala Asn Leu Arg Ala Asn Thr
 100 105 110
 Ser Asn Leu Ile Gly Leu Ile Leu Arg Asp Phe Ser Asp Ser Phe Ser
 115 120 125
 Ile Lys Val Met Ala Ser Ile Val Gln Glu Leu Glu Lys Gln Gly Tyr
 130 135 140
 Met Val Phe Leu Gly Gln Pro Leu Asn Asp Gly Glu His Leu Glu Arg
 145 150 155 160
 Thr Leu Leu Thr Phe Lys Gln Gln Gly Val Ala Gly Val Ile Tyr Leu
 165 170 175
 Ala Ser Asp Thr Arg Thr Ala Ser Leu Pro Glu His Ile Arg His Cys
 180 185 190
 Pro Leu Pro Leu Val Ala Val Ser Gln Ser Leu Leu Glu Lys Cys
 195 200 205
 Asn Leu Val Met Arg Asp Asn Arg Gln Ala Ala Asn Leu Ala Ala Arg
 210 215 220
 Tyr Leu Ile Glu Arg Gly His Arg Thr Ile Ala Tyr Ile Gly Gly Arg
 225 230 235 240
 Asp Gly Cys Arg Ile Arg Glu Gln Arg Leu Leu Gly Phe Arg Ser Ala
 245 250 255
 Met Thr Gln Asn Gly Leu Ile Trp Arg Glu Glu Tyr Ser Pro Ala Cys
 260 265 270
 Thr Asp Asp Thr Gln Ala Ala Ala Met Ala Thr Arg Gln Leu Leu Glu
 275 280 285
 Lys Asn Asn Thr Ile Thr Ala Leu Leu Cys His Ser Pro Asp Ala Met
 290 295 300
 Ile Gly Ser Ile Ser Gly Ile His Gln Val Gly Arg Thr Val Gly Lys
 305 310 315 320
 Asp Val Phe Leu Thr Gln Gln Val Ala Leu Ile Gly Phe Glu Asp Met
 325 330 335
 Leu His Val Asn Leu Thr Ser Pro Ser Leu Thr Tyr Val Ser Ser Ala
 340 345 350
 Ser Glu Glu Thr Gly Arg Gln Ala Ala Gly Leu Met Ile Arg Arg Leu
 355 360 365
 Lys Glu Pro Asp Leu Gln Thr Gln Arg Ile Thr Leu Ser Gly Gln Leu
 370 375 380
 Ile Ala Arg Glu Ser Ala
 385 390

<210> 7407
 <211> 186
 <212> PRT
 <213> Enterobacter cloacae

<400> 7407

Gln Ala Pro Ile Cys Asp Pro Ser Thr Gly Arg Arg Thr Thr Ile Thr
 1 5 10 15
 Glu Gln Asp Ala Lys Met Val Thr Phe His Thr Asn His Gly Asp Ile
 20 25 30
 Val Ile Lys Thr Phe Asp Asp Lys Ala Pro Glu Thr Val Lys Asn Phe
 35 40 45
 Leu Asp Tyr Cys Arg Glu Gly Phe Tyr Asn Asn Thr Ile Phe His Arg
 50 55 60
 Val Ile Asn Gly Phe Met Ile Gln Gly Gly Phe Glu Pro Gly Met
 65 70 75 80
 Arg Gln Lys Glu Thr Lys Glu Ala Ile Lys Asn Glu Ala Asn Asn Gly
 85 90 95
 Leu Lys Asn Thr Arg Gly Thr Leu Ala Met Ala Arg Thr Gln Ala Pro
 100 105 110
 His Ser Ala Thr Ala Gln Phe Phe Ile Asn Val Ala Asp Asn Asp Phe
 115 120 125
 Leu Asn Phe Ser Gly Glu Ser Leu Gln Gly Trp Gly Tyr Cys Val Phe
 130 135 140
 Ala Glu Val Val Glu Gly Met Asp Val Val Asp Lys Ile Lys Ala Val
 145 150 155 160
 Ser Thr Gly Arg Ser Gly Met His Gln Asp Val Pro Lys Glu Asp Val
 165 170 175
 Val Ile Thr Ser Val Thr Val Ser Glu
 180 185

<210> 7408

<211> 242

<212> PRT

<213> *Enterobacter cloacae*

<400> 7408

Phe Val Ala Thr Leu Phe Ile Ala Asp Leu His Leu Gln Thr Glu Glu
 1 5 10 15
 Pro Ala Ile Thr Ala Gly Phe Leu Arg Phe Leu Arg Gly Glu Ala Lys
 20 25 30
 Asn Ala Asp Ala Leu Tyr Ile Leu Gly Asp Leu Phe Glu Ala Trp Ile
 35 40 45
 Gly Asp Asp Asp Pro Asn Pro Leu His Arg Glu Met Ala Ala Ile
 50 55 60
 Lys Thr Leu Val Asp Ser Gly Val Pro Cys Tyr Phe Ile His Gly Asn
 65 70 75 80
 Arg Asp Phe Leu Ile Gly Gln Arg Tyr Ala Arg Glu Ser Gly Met Thr
 85 90 95
 Leu Leu Pro Glu Glu Gln Val Leu Asn Leu Tyr Gly Arg Asn Ile Leu
 100 105 110
 Ile Met His Gly Asp Thr Leu Cys Thr Asp Asp Thr Gly Tyr Leu Ala
 115 120 125
 Phe Arg Ala Lys Val His Thr Pro Trp Ile Gln Lys Val Phe Leu Ala
 130 135 140
 Leu Pro Leu Phe Ile Arg Asn Arg Ile Ala Ala Arg Met Arg Ala Gly
 145 150 155 160
 Ser Lys Ala Ala Asn Ser Ser Lys Ser Met Thr Ile Met Asp Val Asn
 165 170 175
 Pro Gln Ala Val Val Lys Val Met Glu Lys His Arg Val Gln Trp Leu
 180 185 190
 Ile His Gly His Thr His Arg Pro Asp Val His Ser Leu Ile Ala Asn
 195 200 205
 Gly Glu Pro Ala His Arg Val Val Leu Gly Ala Trp His Ser Glu Gly
 210 215 220

Ser Met Val Lys Val Thr Pro Glu Gly Val Glu Leu Ile Ala Phe Pro
 225 230 235 240
 Phe

<210> 7409

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 7409

Pro Gly Ser Ala Gly Cys Ser Met Lys Gln Val Cys Val Leu Gly Asn
 1 5 10 15
 Gly Gln Leu Gly Arg Met Leu Arg Gln Ala Gly Glu Pro Leu Gly Ile
 20 25 30
 Ala Val Trp Pro Val Gly Leu Asp Ala Glu Pro Glu Ala Val Pro Phe
 35 40 45
 His Gln Ser Val Ile Thr Ala Glu Ile Glu Arg Trp Pro Glu Thr Ala
 50 55 60
 Leu Thr Arg Glu Leu Ala Arg His Asn Ala Phe Val Asn Arg Asp Val
 65 70 75 80
 Phe Pro Ile Ile Ala Asp Arg Leu Thr Gln Lys Gln Leu Phe Asp Lys
 85 90 95
 Leu Gly Leu Ala Thr Ala Pro Trp Gln Leu Leu Ser Asp Lys Arg Glu
 100 105 110
 Trp Asp Asp Val Phe Ala Met Leu Gly Asp Leu Ala Ile Val Lys Arg
 115 120 125
 Arg Val Gly Gly Tyr Asp Gly Arg Gly Gln Trp Arg Leu Arg Ala Asn
 130 135 140
 Asp Thr Ala Glu Leu Pro Asp Asp Cys Tyr Gly Glu Cys Ile Val Glu
 145 150 155 160
 Gln Gly Ile Asn Phe Ser Gly Glu Val Ser Leu Val Gly Ala Arg Gly
 165 170 175
 His Asp Gly His Thr Val Phe Tyr Pro Leu Thr His Asn Leu His Gln
 180 185 190
 Asp Gly Ile Leu Arg Thr Ser Val Ala Phe Pro Gln Ala Asn Ala Asp
 195 200 205
 Gln Gln Ala Gln Ala Glu Glu Met Leu Ser Ala Ile Met His Glu Leu
 210 215 220
 Gly Tyr Val Gly Val Met Ala Met Glu Cys Phe Val Thr Pro Ser Gly
 225 230 235 240
 Leu Leu Ile Asn Glu Leu Ala Pro Arg Val His Asn Ser Gly His Trp
 245 250 255
 Thr Gln Asn Gly Ala Ser Ile Ser Gln Phe Glu Leu His Leu Arg Ala
 260 265 270
 Ile Thr Asp Leu Pro Leu Pro Gln Pro Val Val Thr Ser Pro Ser Val
 275 280 285
 Met Ile Asn Leu Ile Gly Thr Asp Leu Asn Tyr Asn Trp Leu Lys Leu
 290 295 300
 Pro Leu Val His Leu His Trp Tyr Asp Lys Glu Val Arg Pro Gly Arg
 305 310 315 320
 Lys Val Gly His Leu Asn Leu Asn Asp Thr Asp Thr Asp Arg Leu Ser
 325 330 335
 Ala Thr Leu Glu Ala Ile Val Pro Leu Leu Pro Pro Glu Tyr Ala Ser
 340 345 350
 Gly Ile Val Trp Ala Gln Ser Lys Leu Lys
 355 360

<210> 7410

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 7410

Val Ser Pro Ala Gly Glu Leu Thr Phe Pro Phe Pro Gly Val Gln Phe
 1 5 10 15
 Pro Pro Ile Ala Ala Gln Phe Ser Ser Gly Ile Thr Met Asn Asp Gly
 20 25 30
 Thr Asp Tyr Arg Ala Ile Leu Ala Ser Asp Thr Pro Leu Ile Asp Val
 35 40 45
 Arg Ala Pro Ile Glu Phe Ala Gln Gly Ala Met Pro Ala Ala Leu Asn
 50 55 60
 Leu Pro Leu Met Asn Asp Asp Glu Arg Ala Ala Val Gly Thr Cys Tyr
 65 70 75 80
 Lys Arg Gln Gly Pro Asp Ala Ala Leu Ala Leu Gly His Ser Leu Val
 85 90 95
 Asn Gly Glu Thr Arg Glu Ala Arg Ile Asn Ala Trp Arg Glu Ala Ser
 100 105 110
 Leu Ala His Pro Glu Gly Tyr Leu Cys Cys Ala Arg Gly Gly Gln Arg
 115 120 125
 Ser His Ile Ser Gln Ala Trp Leu Lys Glu Ala Gly Ile Asp Tyr Pro
 130 135 140
 Leu Ile Arg Gly Gly Tyr Lys Ala Leu Arg Gln Thr Ala Ile Gln Val
 145 150 155 160
 Thr Ile Glu Gln Ser Gln Lys Pro Met Val Leu Ile Gly Gly Cys Thr
 165 170 175
 Gly Asn Gly Lys Thr Leu Leu Val Lys Gln His Ala Gln Gly Ile Asp
 180 185 190
 Leu Glu Gly Leu Ala His His Arg Gly Ser Ser Phe Gly Arg Thr Leu
 195 200 205
 Thr Pro Gln Leu Ser Gln Ala Ser Phe Glu Asn His Leu Ala Val Glu
 210 215 220
 Leu Leu Lys Lys Asp Ala Ala Arg Trp Val Leu Glu Asp Glu Gly Arg
 225 230 235 240
 Met Ile Gly Ser Asn His Leu Pro Glu Cys Leu Arg Asp Arg Met Val
 245 250 255
 Asp Ala Pro Val Val Val Val Glu Asp Pro Phe Glu Val Arg Leu Glu
 260 265 270
 Arg Leu Arg Glu Glu Tyr Phe Asp His Met Trp Ala Asp Phe Ser Ala
 275 280 285
 Ala Tyr Gly Glu Lys Ala Gly Trp Lys Ala Tyr Ser Glu Tyr Leu His
 290 295 300
 His Gly Leu Tyr Ala Ile Arg Arg Arg Leu Gly Leu Gln Arg Phe Ala
 305 310 315 320
 Glu Phe Thr Ala Leu Leu Asp Ala Ala Leu Val Glu Gln Gln Arg Thr
 325 330 335
 Gly Ser Thr Asp Ala His Phe Ser Trp Leu Val Pro Leu Leu Lys Asp
 340 345 350
 Tyr Tyr Asp Pro Met Tyr Gly Tyr Gln Leu Glu Lys Lys Ala Glu Lys
 355 360 365
 Ile Val Tyr Arg Gly Thr Tyr Glu Glu Ile Ala Glu Trp Leu Asp Arg
 370 375 380

385

<210> 7411

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 7411

Leu Lys Asp Lys Pro Asp Met Pro Gly Ser Gln Arg Gly Ala Gly Leu

1 5 10 15
 Phe Ile Lys Arg Val Glu Gly Leu Ala Asp Gln Val His Phe Pro Thr
 20 25 30
 Ala Ala Ile Val Gln Thr Gly Glu Asn Gly Gln Gln Arg Gly Leu Thr
 35 40 45
 Gly Thr Gly Phe Thr Asn Gln Gly Asp Gly Phe Gly Thr Phe Asp Asn
 50 55 60
 Glu Phe Asn Ser Gly Glu Asp Gly Lys Leu Val Phe Pro Leu Thr Asp
 65 70 75 80
 Arg Leu Leu Lys Thr Met Asn Phe Asn Asn Val Phe Arg Trp His Leu
 85 90 95
 Pro Phe Leu Phe Leu Met Leu Met Thr Phe Arg Ala Ala Ala Ala Asp
 100 105 110
 Thr Leu Leu Ile Leu Gly Asp Ser Leu Ser Ala Gly Tyr Arg Met Ala
 115 120 125
 Ala Ser Ala Ala Trp Pro Ala Leu Leu Asn Asp Lys Trp Gln Ser Arg
 130 135 140
 Ala Ser Val Val Asn Gly Ser Ile Ser Gly Asp Thr Ser Gln Gln Gly
 145 150 155 160
 Leu Ser Arg Leu Pro Ala Leu Leu Lys Gln His Gln Pro Arg Trp Val
 165 170 175
 Leu Val Glu Leu Gly Gly Asn Asp Gly Leu Arg Gly Phe Gln Pro Gln
 180 185 190
 Gln Thr Glu Gln Thr Leu Arg Thr Ile Leu Gln Thr Ile Lys Ala Ala
 195 200 205
 Asp Ala Gln Pro Leu Leu Met Gln Ile Arg Leu Pro Ala Asn Tyr Gly
 210 215 220
 Arg Arg Tyr Asn Glu Ala Phe Ser Ala Ile Tyr Pro Lys Leu Ala Lys
 225 230 235 240
 Glu Phe Asp Ile Pro Leu Leu Pro Phe Phe Met Glu Glu Val Tyr Leu
 245 250 255
 Lys Pro Gln Trp Met Gln Asp Asp Gly Ile His Pro Asn Arg Asp Ala
 260 265 270
 Gln Pro Phe Ile Ala Asp Trp Met Ala Thr Arg Leu Ala Pro Leu Val
 275 280 285
 Asn His Asp Ser Ser Asn Ser
 290 295

<210> 7412

<211> 210

<212> PRT

<213> *Enterobacter cloacae*

<400> 7412

Arg His Gln Thr Gly Arg His Ala Ala Gln Val Ala Gly Arg Asp Pro
 1 5 10 15
 Ser Ala Ser Ala Gly Leu Val Ser Arg Gly Leu Thr Gly Ala Gly Ala
 20 25 30
 Gly Gln His Leu Pro Val Val Pro Gly Lys Pro Ala Pro Leu Pro Gly
 35 40 45
 Val Met Met Phe Leu Ser Gln Glu Asp Phe Ala Thr Val Val Arg Ser
 50 55 60
 Thr Pro Leu Ile Ser Ile Asp Leu Ile Val Glu Asn Glu Arg Gly Glu
 65 70 75 80
 Phe Leu Leu Gly Lys Arg Thr Asn Arg Pro Ala Gln Gly Phe Trp Phe
 85 90 95
 Val Pro Gly Gly Arg Val Gln Lys Asp Glu Thr Leu Thr Asp Ala Phe
 100 105 110
 Glu Arg Leu Thr Leu Ala Glu Leu Gly Leu Gln Leu Pro Met Ala Ala
 115 120 125
 Gly Gln Phe Tyr Gly Val Trp Gln His Phe Tyr Asp Asp Asn Phe Ser

130 135 140
 Gly Thr Gly Phe Thr Thr His Tyr Val Val Leu Gly Phe Arg Leu Lys
 145 150 155 160
 Val Ser Glu Ala Asp Leu Arg Leu Pro Asp Ser Gln His Asp Asp Tyr
 165 170 175
 Arg Trp Leu Thr Pro Glu Ala Leu Leu Ala Ser Asp Asn Val His Asp
 180 185 190
 Asn Ser Arg Ala Tyr Phe Leu Ala Glu Arg Gln Ala Glu Val Pro Gly
 195 200 205
 Leu
 210

<210> 7413
 <211> 474
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 7413
 Ile Trp Pro Leu His Gly Gln Gly Gln Leu Leu Pro Glu Lys Gly Val
 1 5 10 15
 Ile Met Glu Lys Leu Thr Cys Phe Lys Ala Tyr Asp Ile Arg Gly Lys
 20 25 30
 Leu Gly Glu Glu Leu Asn Glu Asp Ile Ala Trp Arg Ile Gly Arg Ala
 35 40 45
 Tyr Gly Glu Tyr Leu Lys Pro Gln Thr Ile Val Leu Gly Gly Asp Val
 50 55 60
 Arg Leu Thr Ser Glu Ser Leu Lys Leu Ala Leu Ala Lys Gly Leu Gln
 65 70 75 80
 Asp Ala Gly Val Asp Val Leu Asp Ile Gly Leu Ser Gly Thr Glu Glu
 85 90 95
 Ile Tyr Phe Ala Thr Phe His Leu Gly Val Asp Gly Gly Ile Glu Val
 100 105 110
 Thr Ala Ser His Asn Pro Met Asp Tyr Asn Gly Met Lys Leu Val Arg
 115 120 125
 Lys Gly Ala Arg Pro Ile Ser Gly Asp Thr Gly Leu Arg Asp Val Gln
 130 135 140
 Arg Leu Ala Glu Ala Asn Asp Phe Pro Pro Val Asn Glu Ala Lys Arg
 145 150 155 160
 Gly Ser Tyr Lys Gln Ile Asn Leu Gln Lys Glu Tyr Ile Asp His Leu
 165 170 175
 Leu Gly Tyr Ile Asn Val Ala Asn Leu Lys Pro Leu Lys Leu Val Ile
 180 185 190
 Asn Ser Gly Asn Gly Ala Ala Gly Pro Val Val Asp Ala Leu Glu Ala
 195 200 205
 Arg Phe Lys Ala Leu Asn Val Pro Val Thr Phe Val Lys Val His Asn
 210 215 220
 Thr Pro Asp Gly Asn Phe Pro Asn Gly Ile Pro Asn Pro Leu Leu Pro
 225 230 235 240
 Glu Cys Arg Asp Asp Thr Arg Asn Ala Val Ile Glu His Gly Ala Asp
 245 250 255
 Met Gly Ile Ala Phe Asp Gly Asp Phe Asp Arg Cys Phe Leu Phe Asp
 260 265 270
 Glu Lys Gly Gln Phe Ile Glu Gly Tyr Tyr Ile Val Gly Leu Leu Ala
 275 280 285
 Glu Ala Phe Leu Glu Lys Asn Pro Gly Ala Lys Ile Ile His Asp Pro
 290 295 300
 Arg Leu Ser Trp Asn Thr Val Asp Val Val Lys Ala Ala Gly Gly Glu
 305 310 315 320
 Pro Val Met Ser Lys Thr Gly His Ala Phe Ile Lys Glu Arg Met Arg
 325 330 335
 Glu Glu Asp Ala Ile Tyr Gly Gly Glu Met Ser Ala His His Tyr Phe

340 345 350
 Arg Asp Phe Ala Tyr Cys Asp Ser Gly Met Ile Pro Trp Leu Leu Val
 355 360 365
 Thr Glu Leu Leu Cys Leu Lys Gly Gln Ser Leu Gly Glu Leu Val Arg
 370 375 380
 Asp Arg Met Ala Ala Phe Pro Ala Ser Gly Glu Ile Asn Ser Lys Leu
 385 390 395 400
 Ala Gln Pro Ala Glu Ala Ile Ala Arg Val Glu Gln His Phe Ala Ile
 405 410 415
 His Ala Leu Glu Ile Asp Arg Thr Asp Gly Ile Ser Met Ala Phe Pro
 420 425 430
 Gln Trp Arg Phe Asn Leu Arg Ser Ser Asn Thr Glu Pro Val Val Arg
 435 440 445
 Leu Asn Val Glu Ser Arg Ala Asp Thr Ala Leu Met Glu Ala Arg Thr
 450 455 460
 Lys Asp Ile Leu Ala Leu Leu Asn Gln
 465 470

<210> 7414

<211> 499

<212> PRT

<213> Enterobacter cloacae

<400> 7414

Thr Lys Arg Arg Thr Lys Met Ser Leu Arg Glu Lys Thr Ile Ser Gly
 1 5 10 15
 Ala Lys Trp Ser Ala Met Ala Thr Ile Val Ile Ile Gly Leu Gly Leu
 20 25 30
 Val Gln Met Thr Val Leu Ala Arg Ile Ile Asp Asn His Gln Phe Gly
 35 40 45
 Leu Leu Thr Val Ser Leu Val Ile Ile Ala Leu Ala Asp Thr Leu Ser
 50 55 60
 Asp Phe Gly Ile Ala Asn Ser Ile Ile Gln Arg Lys Glu Ile Ser His
 65 70 75 80
 Leu Glu Leu Thr Thr Leu Tyr Trp Leu Asn Val Gly Leu Gly Ile Phe
 85 90 95
 Val Phe Val Leu Val Phe Leu Leu Ser Asp Val Ile Ala Gly Val Leu
 100 105 110
 His Asn Pro Asp Leu Ala Pro Leu Met Arg Thr Leu Ser Phe Ala Phe
 115 120 125
 Val Val Ile Pro His Gly Gln Gln Phe Arg Ala Leu Met Gln Lys Glu
 130 135 140
 Leu Glu Phe Asn Lys Ile Gly Met Ile Glu Thr Ser Ala Val Leu Ala
 145 150 155 160
 Gly Phe Thr Phe Thr Val Val Ser Ala His Phe Trp Pro Leu Ala Met
 165 170 175
 Thr Ala Ile Leu Gly Tyr Leu Val Asn Ser Ala Val Arg Thr Leu Leu
 180 185 190
 Phe Gly Phe Phe Gly Arg Lys Ile Tyr Arg Pro Gly Leu His Phe Ser
 195 200 205
 Leu Ala Ser Val Ser Ser Asn Leu Arg Phe Gly Ala Trp Leu Thr Ala
 210 215 220
 Asp Ser Ile Ile Asn Tyr Val Asn Thr Asn Leu Ser Thr Leu Val Leu
 225 230 235 240
 Ala Arg Ile Leu Gly Ala Ser Val Ala Gly Tyr Asn Leu Ala Tyr
 245 250 255
 Asn Val Ala Val Val Pro Pro Met Lys Leu Asn Pro Ile Ile Thr Arg
 260 265 270
 Val Leu Phe Pro Ala Phe Ala Lys Ile Gln Asp Asp Thr Glu Lys Leu
 275 280 285
 Arg Val Asn Phe Tyr Lys Leu Leu Ser Val Val Gly Ile Ile Asn Phe

290	295	300
Pro Val Leu Leu Gly Leu Met Val Val Ala Ser Asn Phe Val Pro Leu		
305	310	315
Val Phe Gly Glu Lys Trp Asn Ser Ile Ile Pro Ile Leu Gln Leu Leu		
	325	330
Cys Val Val Gly Leu Leu Arg Ser Val Gly Asn Pro Ile Gly Ser Leu		
	340	345
Leu Met Ala Lys Ala Arg Val Asp Ile Ser Phe Lys Phe Asn Val Phe		
	355	360
Lys Thr Phe Leu Phe Ile Pro Ala Ile Ile Val Gly Gly His Met Ala		
	370	375
Gly Ala Ile Gly Val Thr Leu Gly Phe Leu Leu Val Gln Ile Val Asn		
385	390	395
Thr Val Leu Ser Tyr Phe Val Met Ile Lys Pro Val Leu Gly Ser Ser		
	405	410
Tyr Arg Gln Tyr Ile Leu Ser Leu Trp Leu Pro Phe Tyr Leu Ser Leu		
	420	425
Pro Thr Leu Ala Val Ser Tyr Gly Leu Gly Val Val Leu Asn Gly His		
	435	440
Leu Pro Leu Ala Ala Leu Leu Ala Val Gln Val Ala Ala Gly Ala Leu		
	450	455
Ala Phe Gly Val Met Ile Val Leu Ser Arg Asn Ala Leu Val Val Glu		
465	470	475
Met Lys Arg Gln Phe Cys Arg Asn Glu Lys Met Lys Thr Leu Leu Arg		
	485	490
		495
Ala Gly		

<210> 7415

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 7415

Phe Tyr Glu Ala Ile Met Lys Leu Leu Ile Leu Gly Asn His Thr Cys	
1	5
Gly Asn Arg Gly Asp Ser Ala Ile Leu Arg Gly Leu Leu Asp Ala Ile	
	20
Asn Thr Leu Lys Pro Glu Thr Glu Val Asp Val Met Ser Arg Tyr Pro	
	35
Val Ser Ser Ser Trp Leu Leu Asn Arg Pro Val Met Gly Asp Pro Leu	
	50
Tyr Ser Gln Met Lys Gln His Asn Asn Ala Ala Gly Val Met Gly Arg	
65	70
Val Lys Lys Val Leu Arg Arg Arg Tyr Gln His Gln Val Leu Leu Ser	
	85
Arg Val Thr Asp Thr Gly Lys Leu Arg Asn Ile Ala Ile Ala Gln Gly	
	100
Phe Thr Asp Phe Val Arg Leu Leu Ser Gly Tyr Asp Ala Ile Ile Gln	
	115
Val Gly Gly Ser Phe Phe Val Asp Leu Tyr Gly Val Pro Gln Phe Glu	
	130
His Ala Leu Cys Thr Phe Met Ala Lys Lys Pro Leu Phe Met Ile Gly	
145	150
His Ser Val Gly Pro Phe Gln Asp Pro Gln Phe Asn Gln Leu Ala Asn	
	165
Tyr Val Phe Gly His Cys Asp Ala Leu Ile Leu Arg Glu Ser Val Ser	
	180
Leu Asp Met Met Lys Arg Ser Glu Ile Asp Thr Thr Lys Val Glu His	
	195
Gly Val Asp Thr Ala Trp Leu Val Asp His Gln Asp Asp Ser Phe Gln	
	200
	205

210	215	220
Ala Ser Tyr Ala Val	Gln His Trp Leu Asp Val	Ala Ala Lys Gln Lys
225	230	235
Thr Val Ala Ile Thr	Leu Arg Glu Leu Ala Pro	Phe Asp Lys Arg Leu
	245	250
Gly Thr Thr Gln Ala	Ala Tyr Glu Lys Ala Phe	Ala Asp Val Val Asn
	260	265
Arg Val Leu Asp Ser	Gly Tyr Gln Val Leu Ala	Leu Ser Thr Cys Thr
	275	280
Gly Ile Asp Ser Tyr	Asn Lys Asp Asp Arg Met	Val Ala Leu Asn Leu
	290	295
Arg Asn Leu Val Asn	Asp Pro Ser Arg Tyr His	Val Val Met Asp Glu
	305	310
Leu Asn Asp Leu Glu	Met Gly Lys Leu Leu Ser	Ala Cys Asp Leu Thr
	325	330
Val Gly Thr Arg Leu	His Ser Ala Ile Ile Ser	Met Asn Phe Gly Thr
	340	345
Pro Ala Ile Ala Ile	Asn Tyr Glu His Lys Ser	Ala Gly Ile Met Gln
	355	360
Gln Leu Gly Met Pro	Glu Met Ala Val Asp Ile	Arg His Leu Leu Asp
	370	375
Gly Ser Leu Gly Ala	Met Val Gly Asp Thr Leu	Gly Gln Leu Pro Ala
	385	390
Ile Asn Glu Arg Leu	Ala Val Ala Val Lys Ala	Glu Arg Glu Lys Gly
	405	410
Ile Gly Met Val Lys	Ser Val Leu Asp Arg Val	Arg Glu Gly Lys
	420	425
		430

<210> 7416

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 7416

Ser Ser Glu Lys Thr	Leu Pro Ala Gln Val	Ser Trp Leu Arg Gly Cys
1	5	10
His Arg Ala Gly Val	Leu Arg Met Thr Lys	Gln Arg Ile Phe Val Ala
	20	25
Gly His Arg Gly Met	Val Gly Ser Ala Ile Val	Arg Gln Leu Glu Gln
	35	40
Arg Gly Asp Val Glu	Val Ile Val Arg Thr Arg	Asp Glu Leu Asn Leu
	50	55
Leu Asp Ser Lys Ala	Val Gln Asp Phe Phe Ala	Ser Glu Arg Ile Asp
	65	70
Gln Val Tyr Leu Ala	Ala Ala Lys Val Gly Gly	Ile Val Ala Asn Asn
	85	90
Thr Tyr Pro Ala Asp	Phe Ile Tyr Glu Asn Met	Met Ile Glu Ser Asn
	100	105
Ile Ile His Ala Ala	His Met His Asn Val Asn	Lys Leu Leu Phe Leu
	115	120
Gly Ser Ser Cys Ile	Tyr Pro Lys Met Ala Lys	Gln Pro Ile Ala Glu
	130	135
Ser Glu Leu Leu Gln	Gly Thr Leu Glu Ala Thr	Asn Glu Pro Tyr Ala
	145	150
Ile Ala Lys Ile Ala	Gly Ile Lys Leu Cys Glu	Ser Tyr Asn Arg Gln
	165	170
Tyr Asn Arg Asp Tyr	Arg Ser Val Met Pro Thr	Asn Leu Tyr Gly Pro
	180	185
His Asp Asn Phe His	Pro Ser Asn Ser His Val	Ile Pro Ala Leu Leu
	195	200
Arg Arg Phe His Glu	Ala Thr Ala Glu Asn	Ala Pro Asp Val Val Val

210	215	220
Trp Gly Ser Gly Thr	Pro Met Arg Glu Phe	Leu His Val Asp Asp Met
225	230	235
Ala Ala Ala Ser Ile	His Val Met Glu Leu	Asp Arg Glu Val Trp Gln
245	250	255
Glu Asn Thr Glu Pro	Met Leu Ser His Ile	Asn Val Gly Thr Gly Val
260	265	270
Asp Cys Thr Ile Arg	Glu Leu Ala Gln Thr	Ile Ala Gln Val Val Gly
275	280	285
Tyr Lys Gly Arg Val	Val Phe Asp Ala Thr	Lys Pro Asp Gly Thr Pro
290	295	300
Arg Lys Leu Leu Asp	Val Thr Arg Leu His	Gln Leu Gly Trp Tyr His
305	310	315
Glu Val Ser Leu Glu	Gln Gly Leu Ala Ser	Thr Tyr Gln Trp Phe Leu
325	330	335
Glu Asn Gln His Arg	Phe Arg Gly	
340	345	

<210> 7417

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 7417

Leu Gly Leu Tyr Phe	Val Asn His Phe	Lys Val Glu Asp	Lys Met Thr
1	5	10	15
Asn Leu Lys Ala Val	Ile Pro Val Ala	Gly Leu Gly Met	His Met Leu
20	25	30	
Pro Ala Thr Lys Ala	Ile Pro Lys Glu	Met Leu Pro Ile	Val Asp Lys
35	40	45	
Pro Met Ile Gln Tyr	Ile Val Asp Glu	Ile Val Ala Ala	Gly Ile Lys
50	55	60	
Glu Ile Val Leu Val	Thr His Ser Ser	Lys Asn Ala Val	Glu Asn His
65	70	75	80
Phe Asp Thr Ser Tyr	Glu Leu Glu Ala	Leu Leu Glu Gln	Arg Val Lys
85	90	95	
Arg Gln Leu Leu Ala	Glu Val Gln Ser	Ile Cys Pro Pro	Gly Val Thr
100	105	110	
Ile Met Asn Val Arg	Gln Ala Gln Pro	Leu Gly Leu Gly	His Ser Ile
115	120	125	
Leu Cys Ala Arg Pro	Val Val Gly Asp	Asn Pro Phe Ile	Val Val Leu
130	135	140	
Pro Asp Ile Ile Ile	Asp Asn Ala Ser	Ala Asp Pro Leu	Arg Tyr Asn
145	150	155	160
Leu Ala Ala Met Val	Ala Arg Phe Asn	Glu Thr Gly Arg	Ser Gln Val
165	170	175	
Leu Ala Lys Arg Met	Lys Gly Asp Leu	Ser Glu Tyr Ser	Val Ile Gln
180	185	190	
Thr Lys Glu Pro Leu	Glu Thr Glu Gly	Gln Val Ser Arg	Ile Val Glu
195	200	205	
Phe Ile Glu Lys Pro	Asp Gln Pro Gln	Thr Leu Asp Ser	Asp Leu Met
210	215	220	
Ala Val Gly Arg Tyr	Val Leu Asn Ala Asp	Ile Trp Ala Glu	Leu Glu
225	230	235	240
Lys Thr Lys Pro Gly	Ala Trp Glu Arg	Ile Gln Leu Thr	Asp Ala Ile
245	250	255	
Ala Glu Leu Gly Lys	Lys Gln Ser Val	Asp Ala Met Leu	Met Thr Gly
260	265	270	
Asp Ser Tyr Asp Cys	Gly Lys Lys Met	Gly Tyr Met Gln	Ala Phe Val
275	280	285	
Asn Thr Gly Leu Arg	Asn Leu Lys Glu	Gly Ala Lys Phe	Arg Lys Cys

290 295 300
 Ile Glu Asn Leu Leu His Glu
 305 310

<210> 7418
 <211> 378
 <212> PRT
 <213> *Enterobacter cloacae*

<400> 7418

Arg Asn Ile Asn Met Ser Lys Val Ala Leu Ile Thr Gly Val Thr Gly
 1 5 10 15
 Gln Asp Gly Ser Tyr Leu Ala Glu Leu Leu Glu Lys Gly Tyr Glu
 20 25 30
 Val His Gly Ile Lys Arg Arg Ala Ser Ser Phe Asn Thr Glu Arg Val
 35 40 45
 Asp His Ile Tyr Gln Asp Pro His Ala Ala Asn Pro Lys Phe His Leu
 50 55 60
 His Tyr Gly Asp Leu Thr Asp Thr Ser Asn Leu Thr Arg Ile Leu Gln
 65 70 75 80
 Glu Val Gln Pro Asp Glu Val Tyr Asn Leu Gly Ala Met Ser His Val
 85 90 95
 Ala Val Ser Phe Glu Ser Pro Glu Tyr Thr Ala Asp Val Asp Ala Met
 100 105 110
 Gly Thr Leu Arg Leu Leu Glu Ala Ile Arg Phe Leu Gly Leu Glu Lys
 115 120 125
 Lys Thr Arg Phe Tyr Gln Ala Ser Thr Ser Glu Leu Tyr Gly Leu Val
 130 135 140
 Gln Glu Ile Pro Gln Lys Glu Thr Thr Pro Phe Tyr Pro Arg Ser Pro
 145 150 155 160
 Tyr Ala Val Ala Lys Leu Tyr Ala Tyr Trp Ile Thr Val Asn Tyr Arg
 165 170 175
 Glu Ser Tyr Gly Met Tyr Ala Cys Asn Gly Ile Leu Phe Asn His Glu
 180 185 190
 Ser Pro Arg Arg Gly Glu Thr Phe Val Thr Arg Lys Ile Thr Arg Ala
 195 200 205
 Ile Ala Asn Ile Ala Gln Gly Leu Glu Ser Cys Leu His Leu Gly Asn
 210 215 220
 Met Asp Ser Leu Arg Asp Trp Gly His Ala Lys Asp Tyr Val Lys Met
 225 230 235 240
 Gln Trp Met Met Leu Gln Gln Glu Gln Pro Glu Asp Phe Val Ile Ala
 245 250 255
 Thr Gly Val Gln Tyr Ser Val Arg Gln Phe Val Glu Met Ala Ala Ala
 260 265 270
 Gln Leu Gly Ile Lys Leu Arg Phe Glu Gly Thr Gly Val Glu Glu Lys
 275 280 285
 Gly Ile Val Val Ser Val Thr Gly His Asp Ala Pro Gly Val Lys Pro
 290 295 300
 Gly Asp Val Ile Val Gln Val Asp Pro Arg Tyr Phe Arg Pro Ala Glu
 305 310 315 320
 Val Glu Thr Leu Leu Gly Asp Pro Thr Lys Ala His Glu Lys Leu Gly
 325 330 335
 Trp Lys Pro Glu Thr Thr Leu Gln Glu Met Val Ser Glu Met Val Ala
 340 345 350
 Lys Asp Leu Glu Ala Ala Lys Lys His Ser Leu Leu Lys Ser His Gly
 355 360 365
 Tyr Glu Val Ala Ile Ala Leu Glu Ser
 370 375

<210> 7419
 <211> 425

<212> PRT

<213> *Enterobacter cloacae*

<400> 7419

Gln Gln Ser Gly Val Leu Pro Cys Gly Thr Ser Gly Arg Gly Ala Arg
 1 5 10 15
 Ser Met Lys Ile Leu Val Tyr Gly Ile Asn Tyr Ser Pro Glu Leu Thr
 20 25 30
 Gly Ile Gly Lys Tyr Thr Gly Glu Met Val Glu Trp Met Ala Ser Gln
 35 40 45
 Gly His Asp Val Arg Val Ile Thr Ala Pro Pro Tyr Tyr Pro Glu Trp
 50 55 60
 Lys Val Gly Glu Arg Tyr Ser Ser Trp Arg Tyr Arg Arg Glu Glu Gly
 65 70 75 80
 Ala Ala Thr Val Trp Trp Arg Cys Pro Leu Tyr Val Pro Lys Gln Pro Ser
 85 90 95
 Thr Leu Lys Arg Leu Ile His Leu Gly Ser Phe Ala Leu Ser Ser Phe
 100 105 110
 Phe Pro Leu Met Ala Gln Arg Arg Trp Lys Pro Asp Arg Ile Ile Gly
 115 120 125
 Val Val Pro Thr Leu Phe Cys Thr Pro Gly Met Arg Leu Leu Gly Lys
 130 135 140
 Leu Ser Gly Ala Arg Thr Leu Leu His Ile Gln Asp Tyr Glu Val Asp
 145 150 155 160
 Ala Met Leu Gly Leu Gly Met Ala Gly Lys Gly Lys Gly Lys Val
 165 170 175
 Ala Lys Leu Ala Ser Ala Phe Glu Arg Ser Gly Leu His Asn Val Asp
 180 185 190
 Tyr Val Ser Thr Ile Ser Arg Ser Met Met Asn Lys Ala Gln Glu Lys
 195 200 205
 Gly Val Pro Ala Glu Lys Val Ile Phe Phe Pro Asn Trp Ser Glu Val
 210 215 220
 Ala Arg Phe Arg Asp Val Thr Asp Gln Asp Ala Gln Ala Leu Arg Ala
 225 230 235 240
 Gln Leu Gly Leu Pro Ala Glu Gln Lys Ile Ile Leu Tyr Ser Gly Asn
 245 250 255
 Ile Gly Glu Lys Gln Gly Leu Glu Ser Val Ile Asp Ala Ala Leu Gln
 260 265 270
 Leu Ser Glu His Pro Trp Met Phe Val Ile Val Gly Gln Gly Gly Gly
 275 280 285
 Lys Ala Arg Leu Glu Lys Met Ala Ser Glu Arg Gly Leu Thr Asn Ile
 290 295 300
 Arg Phe Phe Pro Leu Gln Ser Tyr Asp Ala Leu Pro Ala Leu Leu Lys
 305 310 315 320
 Met Ala Asp Cys His Leu Val Val Gln Lys Arg Gly Ala Ala Asp Ala
 325 330 335
 Val Leu Pro Ser Lys Leu Thr Asn Ile Leu Ala Val Gly Gly Asn Ala
 340 345 350
 Val Ile Thr Ala Glu Ala Ala Thr Glu Leu Gly Gln Leu Cys Asn Ser
 355 360 365
 Tyr Pro Gly Ile Ala Val Cys Val Glu Pro Glu Ser Val Pro Ala Leu
 370 375 380
 Val Thr Gly Ile Glu Gln Ala Leu Ala Met Pro Lys Glu Asn Thr Val
 385 390 395 400
 Ala Arg Glu Tyr Ala Glu Arg Thr Leu Glu Lys Glu Asn Val Leu Ser
 405 410 415
 Gln Phe Ile Ala Asp Ile Arg Gly
 420 425

<210> 7420

<211> 480

<212> PRT

<213> *Enterobacter cloacae*

<400> 7420

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Ile Met Ser Gln Thr Thr Leu Tyr Pro Val Val Met Ala Gly Gly Ser
1      5      10      15
Gly Ser Arg Leu Trp Pro Leu Ser Arg Val Leu Tyr Pro Lys Gln Phe
20      25      30
Leu Cys Leu Lys Gly Asp Leu Thr Met Leu Gln Thr Thr Val Asn Arg
35      40      45
Leu His Gly Val Glu Cys Glu Ser Pro Val Val Ile Cys Asn Glu Gln
50      55      60
His Arg Phe Ile Val Ala Glu Gln Leu Arg Gln Leu Asn Lys Leu Thr
65      70      75      80
Glu Asn Ile Ile Leu Glu Pro Ala Gly Arg Asn Thr Ala Pro Ala Ile
85      90      95
Ala Leu Ala Ala Leu Ala Ala Lys Arg Ser Ser Pro Asp Cys Asp Pro
100      105      110
Leu Met Leu Val Leu Ala Ala Asp His Val Ile Gln Gln Glu Glu Ala
115      120      125
Phe Arg Asp Ala Val Arg Ala Ala Ile Pro Tyr Ala Glu Asn Gly Lys
130      135      140
Leu Val Thr Phe Gly Ile Val Pro Asp Leu Pro Glu Thr Gly Tyr Gly
145      150      155      160
Tyr Ile Arg Arg Gly Ser Val Thr Pro Gly Glu Gly Asp Ser Val Ala
165      170      175
Phe Asp Val Ala Gln Phe Val Glu Lys Pro Asn Leu Glu Thr Ala Gln
180      185      190
Ala Tyr Val Ala Ser Gly Glu Tyr Tyr Trp Asn Ser Gly Met Phe Leu
195      200      205
Phe Arg Ala Gly Arg Tyr Leu Glu Glu Leu Glu Lys Tyr Arg Pro Asp
210      215      220
Ile Leu Ser Ala Cys Glu Lys Ala Met Ala Val Val Asp Pro Asp Leu
225      230      235      240
Asp Phe Ile Arg Val Asp Glu Glu Ala Phe Leu Ala Cys Pro Glu Glu
245      250      255
Ser Ile Asp Tyr Ala Val Met Glu Arg Thr Ala Asp Ala Val Val Val
260      265      270
Pro Met Asp Ala Gly Trp Ser Asp Val Gly Ser Trp Ser Ser Leu Trp
275      280      285
Glu Ile Ser Ala His Thr Pro Glu Gly Asn Val His His Gly Asp Val
290      295      300
Ile Ser His Lys Thr Glu Asn Ser Tyr Val Tyr Ala Glu Ser Gly Leu
305      310      315      320
Val Thr Thr Val Gly Val Lys Asp Leu Val Val Val Gln Thr Lys Asp
325      330      335
Ala Val Leu Ile Ala Asp Arg Asn Ala Val Gln Asp Val Lys Lys Val
340      345      350
Val Glu Lys Ile Lys Ala Asp Gly Arg His Glu His His Ile His Arg
355      360      365
Glu Val Tyr Arg Pro Trp Gly Lys Tyr Asp Ser Ile Asp Ala Gly Glu
370      375      380
Arg Tyr Gln Val Lys Arg Ile Thr Val Lys Pro Gly Glu Gly Leu Ser
385      390      395      400
Val Gln Met His His His Arg Ala Glu His Trp Val Val Val Ala Gly
405      410      415
Thr Ala Lys Val Thr Ile Asp Gly Glu Val Lys Leu Leu Gly Glu Asn
420      425      430
Glu Ser Ile Tyr Ile Pro Leu Gly Ala Thr His Cys Leu Glu Asn Pro
435      440      445
Gly Lys Ile Pro Leu Asp Leu Ile Glu Val Arg Ser Gly Ser Tyr Leu

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450 455 460
 Glu Glu Asp Asp Ile Ile Arg Phe Gln Asp Arg Tyr Gly Arg Val
 465 470 475 480

<210> 7421
 <211> 489
 <212> PRT
 <213> Enterobacter cloacae

<400> 7421
 Thr Pro Ser Pro Leu Trp Gly Glu Gly Arg Gly Glu Gly Arg Gly Val
 1 5 10 15
 Arg Phe Arg Thr Lys Gly Thr Thr Met Thr Asn Leu Lys Lys Arg Glu
 20 25 30
 Arg Ala Arg Thr Asn Ala Ser Leu Ile Ser Met Val Gln Arg Phe Ser
 35 40 45
 Asp Ile Thr Ile Met Val Gly Gly Leu Trp Ala Val Cys Trp Val Ser
 50 55 60
 Gly Gln Ser Phe Leu Tyr Met His Leu Leu Met Ala Leu Ile Ala Leu
 65 70 75 80
 Val Val Phe Gln Met Ile Gly Gly Met Thr Asp Phe Tyr Arg Ser Trp
 85 90 95
 Arg Gly Val Lys Met Thr Thr Glu Leu Met Leu Leu Leu Gln Asn Trp
 100 105 110
 Thr Leu Ser Leu Val Phe Ser Ala Gly Leu Val Ala Phe Ser His Asp
 115 120 125
 Phe Asp Asn Arg Leu Val Thr Tyr Leu Cys Trp Tyr Leu Leu Thr Ser
 130 135 140
 Ile Gly Met Val Val Cys Arg Ser Leu Ile Arg Phe Gly Ala Gly Trp
 145 150 155 160
 Leu Arg Asn Arg Gly Tyr Asn Arg Arg Phe Val Ala Val Ala Gly Asp
 165 170 175
 Leu Pro Val Gly Gln Val Leu Leu Asp Ser Phe Arg Lys Glu Pro Trp
 180 185 190
 Leu Gly Phe Glu Val Val Gly Ile Tyr His Asp Ala Lys Pro Gly Gly
 195 200 205
 Val Pro Ser Asp Trp Ala Gly Asn Tyr Glu Gln Leu Ile Asp Asp Ala
 210 215 220
 Lys Ala Gly Lys Ile His Asn Val Tyr Ile Ala Met Gln Met Lys Asp
 225 230 235 240
 Glu Ser Arg Ile Lys Lys Leu Met Arg Glu Leu Ala Asp Thr Thr Cys
 245 250 255
 Ser Val Ile Leu Ile Pro Asp Val Phe Thr Phe Asn Ile Leu His Ser
 260 265 270
 Arg Ile Glu Glu Val Asn Gly Val Pro Val Val Pro Leu Tyr Asp Thr
 275 280 285
 Pro Leu Ser Gly Ile Asn Arg Val Leu Lys Arg Ala Glu Asp Ile Val
 290 295 300
 Leu Ser Ser Leu Ile Leu Leu Leu Ile Ser Pro Val Leu Cys Cys Ile
 305 310 315 320
 Ala Leu Ala Val Lys Leu Ser Ser Pro Gly Pro Ile Ile Phe Arg Gln
 325 330 335
 Thr Arg Tyr Gly Met Asp Gly Lys Pro Ile Met Val Trp Lys Phe Arg
 340 345 350
 Ser Met Lys Val Met Glu Asn Asp Lys Val Val Thr Gln Ala Thr Gln
 355 360 365
 Asn Asp Pro Arg Val Thr Arg Val Gly Asn Phe Leu Arg Arg Thr Ser
 370 375 380
 Leu Asp Glu Leu Pro Gln Phe Ile Asn Val Phe Thr Gly Gly Met Ser
 385 390 395 400
 Ile Val Gly Pro Arg Pro His Ala Val Ala His Asn Glu Gln Tyr Arg

405 410 415
 Thr Leu Ile Glu Gly Tyr Met Leu Arg His Lys Val Lys Pro Gly Ile
 420 425 430
 Thr Gly Trp Ala Gln Ile Asn Gly Trp Arg Gly Thr Asp Thr Leu
 435 440 445
 Glu Lys Met Glu Lys Arg Ile Glu Phe Asp Leu Glu Tyr Ile Arg Glu
 450 455 460
 Trp Ser Leu Trp Phe Asp Ile Lys Ile Val Phe Leu Thr Ile Phe Lys
 465 470 475 480
 Gly Phe Val Asn Lys Ala Ala Tyr
 485

<210> 7422

<211> 464

<212> PRT

<213> *Enterobacter cloacae*

<400> 7422

Asn Gly Arg Arg Tyr Ser Ser Ser Ala Gly Arg Ile Ala Gly Cys Asp
 1 5 10 15
 Gly Gly Arg His Ala Arg Pro Ala Ala Cys Asp Gln Arg Thr Ser Gly
 20 25 30
 Gly Gly Gly Lys Ser Arg Thr Arg Lys Arg Tyr Trp His Gly Glu Ile
 35 40 45
 Arg Thr Arg Pro Arg Pro Gly Gly Glu Met Lys Phe Gly Phe Phe Leu
 50 55 60
 Leu Lys Phe Pro Leu Ser Ser Glu Thr Phe Val Leu Asn Gln Ile Thr
 65 70 75 80
 Ala Phe Ile Asp Met Gly Tyr Asp Val Glu Ile Ile Ala Leu Gln Lys
 85 90 95
 Gly Asp Thr Gln Asn Thr His Ala Ala Tyr Thr Arg Tyr Gly Leu Glu
 100 105 110
 Ala Lys Thr Arg Trp Leu Gln Asp Glu Pro Ala Gly Arg Met Asn Lys
 115 120 125
 Leu Arg His Arg Ala Gly Gln Thr Leu Arg Gly Leu His Arg Ala Ser
 130 135 140
 Thr Trp Arg Ala Leu Asn Met Ser Arg Tyr Gly Ala Glu Ala Arg Asn
 145 150 155 160
 Leu Ile Leu Ser Ala Ile Cys Gly Gln Thr Ala Gln Pro Tyr Arg Ala
 165 170 175
 Asp Val Phe Ile Ala His Phe Gly Pro Ala Gly Val Thr Ala Ala Lys
 180 185 190
 Leu Arg Glu Leu Gly Val Ile Asp Gly Lys Ile Ala Thr Ile Phe His
 195 200 205
 Gly Ile Asp Ile Ser Ser Arg Glu Val Leu Asn His Tyr Thr Pro Glu
 210 215 220
 Tyr Gln Gln Leu Phe Arg Arg Gly Asp Met Met Leu Pro Ile Ser Asn
 225 230 235 240
 Leu Trp Ala Gly Arg Leu Lys Thr Met Gly Cys Pro Ser Glu Lys Ile
 245 250 255
 Thr Val Ser Arg Met Gly Val Asp Met Glu Arg Phe Thr Gln Arg Pro
 260 265 270
 Val Lys Val Pro Gly Lys Pro Leu Gln Ile Ile Ser Val Ala Arg Leu
 275 280 285
 Thr Glu Lys Lys Gly Leu His Val Ala Ile Glu Ala Cys Arg Gln Leu
 290 295 300
 Lys Ala Arg Gly Val Asp Phe His Tyr Arg Ile Leu Gly Ile Gly Pro
 305 310 315 320
 Trp Glu Arg Arg Leu Arg Thr Leu Ile Glu Gln Tyr Gln Leu Glu Asp
 325 330 335
 Val Val Glu Met Pro Gly Phe Lys Pro Ser His Glu Val Lys Ala Met

340 345 350
 Leu Asp Asp Ala Asp Val Phe Leu Leu Pro Ser Val Thr Gly Ala Asp
 355 360 365
 Gly Asp Met Glu Gly Ile Pro Val Ala Leu Met Glu Ala Met Ala Val
 370 375 380
 Gly Ile Pro Val Val Ser Thr Leu His Ser Gly Ile Pro Glu Leu Ile
 385 390 395 400
 Thr Ser Glu His Ser Gly Trp Leu Val Pro Glu Asn Asn Ala Leu Ala
 405 415
 Leu Ala Asp Arg Leu Ala Ala Phe Ser Asp Ile Asp Gln Gln Thr Leu
 420 425 430
 Ile Pro Val Leu Gln Asn Ala Arg Gln Lys Val Glu Ala Glu Phe Asn
 435 440 445
 Gln Gln Val Ile Asn Arg Gln Leu Ala Ser Leu Leu Gln Thr Leu
 450 455 460

<210> 7423

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7423

Gly Cys Met Leu Lys Lys Ile Thr Arg Arg Arg Phe Val Ser Ser Leu
 1 5 10 15
 Ser Val Leu Ala Ala Met Pro Leu Leu Ser Pro Arg Ala Ala Arg Ala
 20 25 30
 Ala Thr Gly Lys Thr Val Ser Val Asp Arg Tyr Asn Asn Asn Asp Trp
 35 40 45
 Ile Ala Ala Phe Lys Gln Ala Phe Thr Glu Gly Asp Thr Val Val Val
 50 55 60
 Pro Ala Gly Leu Thr Cys Glu Asn Ile Asn Thr Gly Ile Phe Ile Pro
 65 70 75 80
 Asp Gly Lys Thr Leu Leu Ile Arg Gly Ala Leu Lys Gly Asn Gly Arg
 85 90 95
 Gly Arg Phe Val Leu Gln Glu Gly Cys Lys Val Ile Gly Glu Gly Glu
 100 105 110
 Gly Arg Thr His Asn Ile Thr Leu Asp Val Arg Gly Ser Asp Cys Val
 115 120 125
 Ile Lys Gly Leu Ala Met Ser Gly Phe Gly Pro Val Thr Gln Ile Tyr
 130 135 140
 Ile Gly Gly Lys Lys Pro Arg Val Met Arg Asn Leu Leu Ile Asp Arg
 145 150 155 160
 Ile Ala Val Ser Gln Ala Asn Tyr Ala Ile Leu Arg Gln Gly Phe His
 165 170 175
 Asn Gln Val Asp Gly Ala Arg Ile Thr Asn Ser Lys Phe Ser His Leu
 180 185 190
 Gln Gly Asp Ala Ile Glu Trp Asn Val Ala Ile Asn Asp Arg Asn Ile
 195 200 205
 Leu Ile Ser Asp His Val Ile Asp Asn Ile Asn Cys Thr Asn Gly Lys
 210 215 220
 Ile Asn Trp Gly Ile Gly Ile Gly Leu Ala Gly Ser Thr Tyr Asp Asn
 225 230 235 240
 Asp Tyr Pro Glu Gln Gln Thr Val Lys Asn Phe Val Val Ala Asn Ile
 245 250 255
 Thr Gly Ser Asn Cys Arg Gln Leu Val His Val Glu Asn Gly Lys His
 260 265 270
 Phe Val Ile Arg Asn Ile Lys Ala Ser Asn Ile Thr Pro Asp Phe Ser
 275 280 285
 Lys Lys Ala Gly Ile Asp Asn Ala Thr Val Ala Ile Tyr Gly Cys Asp
 290 295 300
 Asn Phe Val Ile Asp Asn Ile Asp Met Val Asn Ser Ala Gly Met Leu

305 310 315 320
 Ile Gly Tyr Gly Val Ile Lys Gly Asp Tyr Leu Ser Ile Pro Gln Asn
 325 330 335
 Phe Lys Leu Asn Asp Ile Arg Leu Asp Asn Arg Gln Leu Ala Tyr Lys
 340 345 350
 Leu Arg Gly Ile Gln Ile Ser Ser Gly Asn Ala Thr Ser Phe Val Ala
 355 360 365
 Ile Thr Asn Val Glu Met Gln Arg Ala Thr Leu Glu Leu His Asn Lys
 370 375 380
 Pro Gln His Leu Phe Leu Arg Asn Ile Asn Val Met Gln Glu Ser Thr
 385 390 395 400
 Thr Gly Pro Ala Leu Lys Met Asn Phe Asp Leu Arg Lys Asp Val Arg
 405 410 415
 Gly Lys Phe Met Ala Lys Asn Glu Thr Leu Leu Ser Leu Ala Asn Ile
 420 425 430
 Lys Ala Val Asn Glu Lys Gly Gln Ser Ser Val Asp Ile Asp Arg Val
 435 440 445
 Asp Gln His Val Val Asn Thr Glu Arg Leu Asn Phe Ala Leu Pro His
 450 455 460

Arg
465

<210> 7424

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 7424

Arg Ile Glu Trp Ile Met Asn Asp Lys Val Leu Phe Ile Gly Ala Ser
 1 5 10 15
 Gly Phe Val Gly Thr Arg Leu Ile Glu Ile Ser Lys Thr Asp Phe Asp
 20 25 30
 Val Thr Asn Phe Asp Lys Gln Gln Ser His Phe Tyr Pro Asp Ile Thr
 35 40 45
 Val Ser Gly Asp Val Arg Asn Gln Asp Gln Leu Asp Gln Ala Leu Ala
 50 55 60
 Gly Phe Glu Thr Val Val Leu Leu Ala Ala Glu His Arg Asp Asp Val
 65 70 75 80
 Ser Pro Thr Ser Leu Tyr Tyr Asp Val Asn Val Gln Gly Thr Arg Asn
 85 90 95
 Val Leu Ser Ala Met Glu Lys Asn Asn Val Lys Asn Ile Ile Phe Thr
 100 105 110
 Ser Ser Val Ala Val Tyr Gly Leu Asn Lys Val Asn Pro Asp Glu Ser
 115 120 125
 His Pro His Asp Pro Phe Asn His Tyr Gly Lys Ser Lys Trp Gln Ala
 130 135 140
 Glu Glu Val Leu Arg Glu Trp Phe Asn Lys Ala Pro Glu Glu Arg Ser
 145 150 155 160
 Leu Thr Ile Val Arg Pro Thr Val Ile Phe Gly Glu Arg Asn Arg Gly
 165 170 175
 Asn Val Tyr Asn Leu Leu Lys Gln Ile Ala Gly Gly Lys Phe Ala Met
 180 185 190
 Val Gly Ala Gly Thr Asn Tyr Lys Ser Met Ala Tyr Val Gly Asn Ile
 195 200 205
 Val Glu Phe Ile Lys Phe Lys Leu Thr Asn Val Lys Pro Gly Tyr Asp
 210 215 220
 Val Tyr Asn Tyr Val Asp Lys Pro Asp Leu Asn Met Asn Gln Leu Val
 225 230 235 240
 Ser Glu Val Glu Lys Ser Leu Asn Lys Lys Ile Pro Ser Val His Leu
 245 250 255
 Pro Tyr Pro Leu Gly Met Leu Gly Gly Tyr Cys Phe Asp Ile Leu Ser

260 265 270
 Lys Val Thr Gly Lys Lys Tyr Ala Ile Ser Ser Val Arg Val Lys Lys
 275 280 285
 Phe Cys Ala Thr Thr Gln Phe Asp Ala Thr Lys Val His Ser Ser Gly
 290 295 300
 Phe Lys Ala Pro Tyr Thr Leu Ser Gln Gly Leu Asp Arg Thr Leu Lys
 305 310 315 320
 Tyr Glu Phe Val His Glu Lys Lys Asp Asp Ile Thr Phe Val Ser Glu
 325 330 335

<210> 7425

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 7425

Ser Val Lys Ala Ser Pro Met Arg Val Trp Leu Asn Trp Arg Ala Cys
 1 5 10 15
 Ala Lys Arg Arg Ser Ala Ser Cys Ala Thr Ser Met Thr Cys Ile Arg
 20 25 30
 Phe Thr Ser Ala Trp Thr Pro Val Arg Gln Ser Ser Arg Pro Ile Pro
 35 40 45
 Arg Thr Cys Thr Pro Pro Met Lys Thr Ser Ala Lys Arg Thr Arg Pro
 50 55 60
 Ser Thr Ala Thr Arg Leu Trp Cys Trp Ala Ala Val Gln Thr Val Ser
 65 70 75 80
 Ala Arg Ala Ser Ser Leu Thr Thr Ala Ala Tyr Thr Pro Leu Trp Arg
 85 90 95
 Cys Ala Lys Thr Val Thr Arg Leu Leu Trp Ser Thr Val Thr Arg Lys
 100 105 110
 Arg Ser Leu Pro Ile Met Thr Pro Pro Thr Ala Ser Thr Ser Ser Arg
 115 120 125
 Leu Pro Trp Lys Thr Cys Trp Lys Ser Cys Ala Ser Arg Ser Gln Lys
 130 135 140
 Ala
 145

<210> 7426

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 7426

Phe Val Ala Ser Val Val Leu Leu Leu Ser Arg Gln Ser Arg Leu Tyr
 1 5 10 15
 Gly Asp Lys Gly Cys Gln Ser Leu Arg Phe Thr Leu Lys Arg Ser Leu
 20 25 30
 Ala Ser Phe Ser Trp Gly Gly Asn Cys Leu His Ser Leu Leu Gln Glu
 35 40 45
 Lys Gln Lys Thr Gly Ile Phe Met Val Leu Ile Ile Tyr Ala His Pro
 50 55 60
 Tyr Pro Gln His Ser His Ala Asn Lys Arg Met Leu Glu Gln Ala Arg
 65 70 75 80
 Thr Leu Glu Asn Val Glu Ile Arg Ser Leu Tyr Gln Leu Tyr Pro Asp
 85 90 95
 Phe Asn Ile Asp Val Ala Ala Glu Gln Glu Ala Leu Ser Arg Ala Asp
 100 105 110
 Leu Ile Val Trp Gln His Pro Met Gln Trp Tyr Ser Thr Pro Pro Leu
 115 120 125

Leu Lys Leu Trp Ile Asp Lys Val Phe Ser His Gly Trp Ala Tyr Gly
 130 135 140
 His Asn Gly Asn Ala Leu His Gly Lys Ser Leu Met Trp Ala Val Thr
 145 150 155 160
 Thr Gly Gly Gly Glu Ser His Phe Glu Ile Gly Ala Phe Pro Gly Phe
 165 170 175
 Asp Val Leu Ala Gln Pro Leu Gln Ala Thr Ala Leu Tyr Cys Gly Leu
 180 185 190
 Asn Trp Leu Pro Pro Phe Ala Met His Cys Thr Phe Val Cys Asp Asp
 195 200 205
 Glu Thr Leu Gln Ala Gln Ala Arg His Tyr Lys Gln Arg Leu Leu Glu
 210 215 220
 Trp Gln Glu Thr His Asn Gly
 225 230

<210> 7427

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 7427

Pro Lys Ile Val Arg Ser Ile Thr Lys Ile Gln Leu Arg Ala Gly Glu
 1 5 10 15
 Tyr Thr Met Gln Asn Lys Leu Leu Ile Ala Ser Val Leu Ala Ala Thr
 20 25 30
 Ala Met Phe Thr Val Ala Gly Cys Ser Ser Asn Gln Ala Val Lys Thr
 35 40 45
 Thr Asp Gly Lys Thr Ile Val Thr Asp Gly Lys Pro Gln Val Asp Asp
 50 55 60
 Asp Thr Gly Leu Val Ser Tyr Lys Asn Ala Glu Thr Gly Gln Thr Glu
 65 70 75 80
 Gln Ile Asn Arg Asp Gln Val Lys Ser Met Gly Glu Leu Asp Asn
 85 90 95

<210> 7428

<211> 659

<212> PRT

<213> Enterobacter cloacae

<400> 7428

Thr Gly Phe Arg Leu Leu Arg Cys Thr Val Pro Leu Ser Ala Thr Met
 1 5 10 15
 Lys Pro Cys Arg Arg Arg Leu Val Thr Thr Asn Asn Ala Tyr Leu Ser
 20 25 30
 Gly Arg Arg Arg Thr Met Asp Ser His Thr Leu Ile Gln Ala Leu Ile
 35 40 45
 Tyr Leu Gly Ala Ala Ala Leu Ile Val Pro Val Ala Val Arg Leu Gly
 50 55 60
 Leu Gly Ser Val Leu Gly Tyr Leu Ile Ala Gly Cys Val Ile Gly Pro
 65 70 75 80
 Trp Gly Phe Arg Leu Val Thr Asp Ala Glu Ser Ile Leu His Phe Ala
 85 90 95
 Glu Ile Gly Val Val Leu Met Leu Phe Val Ile Gly Leu Glu Leu Asp
 100 105 110
 Pro Gln Arg Leu Trp Lys Leu Arg Ala Ser Val Phe Gly Gly Gly Ala
 115 120 125
 Leu Gln Met Leu Ala Cys Gly Leu Leu Leu Gly Gly Phe Cys Ile Leu
 130 135 140
 Leu Gly Met Glu Trp Lys Val Ala Glu Leu Ile Gly Met Thr Leu Ala
 145 150 155 160
 Leu Ser Ser Thr Ala Ile Ala Met Gln Ala Met Asn Glu Arg Asn Leu

Thr	Val	Ser	Gln	Met	Gly	Arg	Ser	Thr	Phe	Ser	Val	Leu	Leu	Phe	Gln
180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
Asp	Ile	Ala	Ala	Ile	Pro	Leu	Val	Ala	Met	Ile	Pro	Leu	Leu	Ala	Thr
195	195	195	195	195	195	195	195	195	195	195	195	195	195	195	195
Ser	Gly	Ala	Ser	Thr	Thr	Leu	Gly	Ala	Phe	Ala	Leu	Ser	Ser	Ala	Leu
210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
Val	Val	Gly	Ala	Leu	Ala	Leu	Val	Val	Leu	Leu	Gly	Arg	Tyr	Val	Thr
225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225
Arg	Pro	Leu	Leu	Arg	Phe	Val	Ala	Arg	Ser	Gly	Leu	Arg	Glu	Val	Phe
240	240	240	240	240	240	240	240	240	240	240	240	240	240	240	240
Ser	Ala	Val	Ala	Leu	Phe	Leu	Val	Phe	Gly	Phe	Gly	Leu	Leu	Leu	Glu
255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
Glu	Ala	Gly	Leu	Ser	Met	Ala	Met	Gly	Ala	Phe	Leu	Ala	Gly	Val	Leu
270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
Leu	Ala	Ser	Ser	Glu	Tyr	Arg	His	Ala	Leu	Glu	Ser	Asp	Ile	Glu	Pro
285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
Phe	Lys	Gly	Leu	Leu	Leu	Gly	Leu	Phe	Phe	Ile	Gly	Val	Gly	Met	Ser
300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Ile	Asp	Phe	Gly	Thr	Leu	Val	Thr	His	Pro	Leu	Arg	Ile	Ile	Ile	Leu
315	315	315	315	315	315	315	315	315	315	315	315	315	315	315	315
Leu	Val	Gly	Phe	Phe	Leu	Val	Ile	Lys	Met	Ala	Met	Leu	Trp	Leu	Ile
330	330	330	330	330	330	330	330	330	330	330	330	330	330	330	330
Arg	Pro	Leu	Asn	Val	Pro	Lys	Pro	Gln	Arg	Arg	Trp	Phe	Ala	Val	Leu
345	345	345	345	345	345	345	345	345	345	345	345	345	345	345	345
Leu	Gly	Gln	Gly	Ser	Glu	Phe	Ala	Phe	Val	Val	Phe	Gly	Ala	Ala	Gln
360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360
Met	Ala	Asn	Val	Leu	Asp	Pro	Glu	Trp	Ala	Lys	Ala	Leu	Thr	Leu	Ala
375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375
Val	Ala	Leu	Ser	Met	Ala	Ala	Thr	Pro	Ile	Leu	Leu	Val	Leu	Leu	Thr
390	390	390	390	390	390	390	390	390	390	390	390	390	390	390	390
Arg	Leu	Glu	Lys	Thr	Gly	Ser	Glu	Gln	Glu	Arg	Glu	Ala	Asp	Glu	Ile
405	405	405	405	405	405	405	405	405	405	405	405	405	405	405	405
Asp	Glu	Glu	Gln	Pro	Arg	Val	Ile	Ile	Ala	Gly	Phe	Gly	Arg	Phe	Gly
420	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420
Gln	Ile	Thr	Gly	Arg	Leu	Leu	Ser	Ser							

Ser Ala

<210> 7429

<211> 171

<212> PRT

<213> *Enterobacter cloacae*

<400> 7429

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Trp Arg Gln Phe Phe Ala Ser Gly Lys Phe Ser Met Ile Ser Leu Ile
1          5          10          15
Ala Ala Leu Ala Val Asp Arg Val Ile Gly Met Glu Asn Ala Met Pro
20          25          30
Trp Asn Leu Pro Ala Asp Leu Ala Trp Phe Lys Arg Thr Thr Leu Asn
35          40          45
Lys Pro Val Val Met Gly Arg Leu Thr Trp Glu Ser Ile Gly Arg Pro
50          55          60
Leu Pro Gly Arg Lys Asn Ile Val Ile Ser Ser Gln Pro Gly Thr Asp
65          70          75          80
Asp Arg Val Gln Trp Val Lys Ser Val Asp Glu Ala Ile Ala Ala Cys
85          90          95
Gly Asp Ala Glu Glu Ile Met Val Ile Gly Gly Gly Arg Val Tyr Glu
100         105         110
Gln Phe Leu Pro Lys Ala Gln Lys Leu Tyr Leu Thr His Ile Asp Ala
115         120         125
Glu Val Glu Gly Asp Thr His Phe Pro Asp Tyr Asp Pro Asp Glu Trp
130         135         140
Glu Ser Val Phe Ser Glu Phe His Asp Ala Asp Glu Gln Asn Ser His
145         150         155         160
Ser Tyr Cys Phe Glu Ile Leu Glu Arg Arg
165         170

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<210> 7430

<211> 278

<212> PRT

<213> *Enterobacter cloacae*

<400> 7430

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Gly Gly Gly Tyr Ala Cys Pro Ser Ser Arg Leu Val Lys Thr Arg Leu
1          5          10          15
Leu Arg Glu Lys Gly Ala Gln Asn Gly Cys Ile Ile Ala Gly Asp Asn
20          25          30
Leu Asp Ala Thr Leu Ala Leu Glu Lys Ala Lys Ala Phe Pro Gly Leu
35          40          45
Asn Gly Met Asp Leu Ala Lys Glu Val Thr Thr Ala Glu Ala Tyr Ser
50          55          60
Trp Thr Gln Gly Ser Trp Thr Leu Glu Gly Asp Leu Pro Glu Ala Lys
65          70          75          80
Pro Glu Ser Glu Leu Pro Phe His Val Val Ala Tyr Asp Phe Gly Ala
85          90          95
Lys Arg Asn Ile Leu Arg Met Leu Val Asp Arg Gly Cys Arg Leu Thr
100         105         110
Met Val Pro Ala Gln Thr Ser Ala Glu Asp Val Leu Lys Met Asn Pro
115         120         125
Asp Gly Ile Phe Leu Ser Asn Gly Pro Gly Asp Pro Ala Pro Cys Asp
130         135         140
Tyr Ala Ile Ala Ala Ile Lys Ser Phe Leu Glu Thr Asp Ile Pro Val
145         150         155         160
Phe Gly Ile Cys Leu Gly His Gln Leu Leu Ala Leu Ala Ser Gly Ala
165         170         175
Asn Thr Val Lys Met Lys Phe Gly His His Gly Gly Asn His Pro Val

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180 185 190
 Lys Asp Ile Asp Asn Asn Thr Val Met Ile Thr Ala Gln Asn His Gly
 195 200 205
 Phe Ala Val Asp Glu Ala Ser Met Pro Ala Asn Leu Arg Val Thr His
 210 215 220
 Lys Ser Leu Phe Asp Gly Thr Leu Gln Gly Ile His Arg Thr Asp Lys
 225 230 235 240
 Pro Ala Phe Ser Phe Gln Gly His Pro Glu Ala Ser Pro Gly Pro His
 245 250 255
 Asp Ala Ala Pro Leu Phe Asp His Phe Ile Glu Leu Ile Glu Gln Tyr
 260 265 270
 Arg Lys Ile Ala Lys
 275

<210> 7431

<211> 1081

<212> PRT

<213> *Enterobacter cloacae*

<400> 7431

Ser Gly Ala Glu Lys Thr Met Pro Lys Arg Thr Asp Ile Lys Ser Ile
 1 5 10 15
 Leu Ile Leu Gly Ala Gly Pro Ile Val Ile Gly Gln Ala Cys Glu Phe
 20 25 30
 Asp Tyr Ser Gly Ala Gln Ala Cys Lys Ala Leu Arg Glu Glu Gly Tyr
 35 40 45
 Arg Val Ile Leu Val Asn Ser Asn Pro Ala Thr Ile Met Thr Asp Pro
 50 55 60
 Glu Met Ala Asp Ala Thr Tyr Ile Glu Pro Ile His Trp Glu Val Val
 65 70 75 80
 Arg Lys Ile Ile Glu Lys Glu Arg Pro Asp Ala Val Leu Pro Thr Met
 85 90 95
 Gly Gly Gln Thr Ala Leu Asn Cys Ala Leu Glu Leu Glu Arg Gln Gly
 100 105 110
 Val Leu Glu Glu Phe Gly Val Thr Met Ile Gly Ala Thr Ala Asp Ala
 115 120 125
 Ile Asp Lys Ala Glu Asp Arg Arg Phe Asp Val Ala Met Lys Lys
 130 135 140
 Ile Gly Leu Asp Thr Ala Arg Ser Gly Ile Ala His Asn Met Glu Glu
 145 150 155 160
 Ala Leu Ala Val Ala Ala Glu Val Gly Tyr Pro Cys Ile Ile Arg Pro
 165 170 175
 Ser Phe Thr Met Gly Gly Thr Gly Gly Gly Ile Ala Tyr Asn Arg Glu
 180 185 190
 Glu Phe Glu Glu Ile Cys Glu Arg Gly Leu Asp Leu Ser Pro Thr Lys
 195 200 205
 Glu Leu Leu Ile Asp Glu Ser Leu Ile Gly Trp Lys Glu Tyr Glu Met
 210 215 220
 Glu Val Val Arg Asp Lys Asn Asp Asn Cys Ile Ile Val Cys Ser Ile
 225 230 235 240
 Glu Asn Phe Asp Ala Met Gly Ile His Thr Gly Asp Ser Ile Thr Val
 245 250 255
 Ala Pro Ala Gln Thr Leu Thr Asp Lys Glu Tyr Gln Ile Met Arg Asn
 260 265 270
 Ala Ser Met Ala Val Leu Arg Glu Ile Gly Val Glu Thr Gly Gly Ser
 275 280 285
 Asn Val Gln Phe Ser Val Asn Pro Lys Thr Gly Arg Leu Ile Val Ile
 290 295 300
 Glu Met Asn Pro Arg Val Ser Arg Ser Ser Ala Leu Ala Ser Lys Ala
 305 310 315 320
 Thr Gly Phe Pro Ile Ala Lys Val Ala Ala Lys Leu Ala Val Gly Tyr

Thr	Leu	Asp	Glu	Leu	Met	Asn	Asp	Ile	Thr	Gly	Gly	Arg	Thr	Pro	Ala
			340					345					350		
Ser	Phe	Glu	Pro	Ser	Ile	Asp	Thr	Val	Val	Thr	Lys	Ile	Pro	Arg	Phe
		355					360					365			
Asn	Phe	Glu	Lys	Phe	Ala	Gly	Ala	Asn	Asp	Arg	Leu	Thr	Thr	Gln	Met
		370					375					380			
Lys	Ser	Val	Gly	Glu	Val	Met	Ala	Ile	Gly	Arg	Thr	Gln	Gln	Glu	Ser
		385					390				395				400
Leu	Gln	Lys	Ala	Leu	Arg	Gly	Leu	Glu	Val	Gly	Ala	Thr	Gly	Phe	Asp
				405					410					415	
Pro	Lys	Val	Ser	Leu	Asp	Asp	Pro	Glu	Ala	Leu	Thr	Lys	Ile	Arg	Arg
			420					425					430		
Glu	Leu	Lys	Asp	Ala	Gly	Ala	Glu	Arg	Ile	Trp	Tyr	Ile	Ala	Asp	Ala
		435					440					445			
Phe	Arg	Ala	Gly	Leu	Ser	Val	Asp	Gly	Val	Phe	Asn	Leu	Thr	Asn	Ile
		450					455				460				
Asp	Arg	Trp	Phe	Leu	Val	Gln	Ile	Glu	Glu	Leu	Val	Arg	Leu	Glu	Glu
		465			470					475					480
Lys	Val	Ala	Glu	Leu	Gly	Ile	Asn	Gly	Leu	Asp	Ala	Asp	Phe	Leu	Arg
				485					490					495	
Met	Leu	Lys	Arg	Lys	Gly	Phe	Ala	Asp	Ala	Arg	Leu	Ala	Lys	Leu	Ala
		500						505					510		
Gly	Val	Arg	Glu	Ala	Glu	Ile	Arg	Lys	Leu	Arg	Asp	Gln	Tyr	Asp	Leu
		515					520					525			
His	Pro	Val	Tyr	Lys	Arg	Val	Asp	Thr	Cys	Ala	Ala	Glu	Phe	Ser	Thr
		530					535					540			
Asp	Thr	Ala	Tyr	Met	Tyr	Ser	Thr	Tyr	Glu	Asp	Glu	Cys	Glu	Ala	Asn
		545			550					555					560
Pro	Ser	Val	Asp	Arg	Asp	Lys	Ile	Met	Val	Leu	Gly	Gly	Gly	Pro	Asn
				565					570					575	
Arg	Ile	Gly	Gln	Gly	Ile	Glu	Phe	Asp	Tyr	Cys	Cys	Val	His	Ala	Ser
			580					585					590		
Leu	Ala	Leu	Arg	Glu	Asp	Gly	Tyr	Glu	Thr	Ile	Met	Val	Asn	Cys	Asn
		595					600					605			
Pro	Glu	Thr	Val	Ser	Thr	Asp	Tyr	Asp	Thr	Ser	Asp	Arg	Leu	Tyr	Phe
		610				615					620				
Glu	Pro	Val	Thr	Leu	Glu	Asp	Val	Leu	Glu	Ile	Val	Arg	Ile	Glu	Lys
		625			630					635				640	
Pro	Lys	Gly	Val	Ile	Val	Gln	Tyr	Gly	Gly	Gln	Thr	Pro	Leu	Lys	Leu
				645					650					655	
Ala	Arg	Ala	Leu	Glu	Ala	Ala	Gly	Val	Pro	Val	Ile	Gly	Thr	Ser	Pro
		660						665					670		
Asp	Ala	Ile	Asp	Arg	Ala	Glu	Asp	Arg	Glu	Arg	Phe	Gln	Gln	Ala	Val
		675					680					685			
Asp	Arg</														

Gln Gln Val Gln Lys Leu Ala Phe Glu Leu Gln Val Arg Gly Leu Met
 820 825 830
 Asn Val Gln Phe Ala Val Lys Asp Asn Glu Val Tyr Leu Ile Glu Val
 835 840 845
 Asn Pro Arg Ala Ala Arg Thr Val Pro Phe Val Ser Lys Ala Thr Gly
 850 855 860
 Ile Pro Leu Ala Lys Val Ala Ala Arg Val Met Ala Gly Gln Thr Leu
 865 870 875 880
 Ala Gln Gln Gly Val Thr Lys Glu Ile Ile Pro Pro Tyr Tyr Ser Val
 885 890 895
 Lys Glu Val Val Leu Pro Phe Asn Lys Phe Pro Gly Val Asp Pro Leu
 900 905 910
 Leu Gly Pro Glu Met Arg Ser Thr Gly Glu Val Met Gly Val Gly Arg
 915 920 925
 Thr Phe Ala Glu Ala Phe Ala Lys Ala Gln Leu Gly Ser Ser Ser Thr
 930 935 940
 Met Arg Lys Ser Gly Arg Ala Leu Leu Ser Val Arg Glu Gly Asp Lys
 945 950 955 960
 Glu Arg Val Val Asp Leu Ala Ala Lys Leu Leu Lys Gln Gly Phe Glu
 965 970 975
 Leu Asp Ala Thr His Gly Thr Ala Ile Val Leu Gly Glu Ala Gly Ile
 980 985 990
 Asn Pro Arg Leu Val Asn Lys Val His Glu Gly Arg Pro His Ile Gln
 995 1000 1005
 Asp Arg Ile Lys Asn Gly Glu Tyr Thr Tyr Ile Ile Asn Thr Thr Ala
 1010 1015 1020
 Gly Arg Gln Ala Ile Glu Asp Ser Lys Leu Ile Arg Arg Ser Ala Leu
 1025 1030 1035 1040
 Gln Tyr Lys Val His Tyr Asp Thr Thr Leu Asn Gly Gly Phe Ala Thr
 1045 1050 1055
 Ala Met Ala Leu Asn Ala Asp Ala Thr Glu Lys Val Ile Ser Val Gln
 1060 1065 1070
 Glu Met His Ala Gln Ile Ser Lys
 1075 1080

<210> 7432

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 7432

Asn Gly Lys Ser Met Lys Asn Trp Lys Thr Leu Leu Leu Gly Val Ala
 1 5 10 15
 Met Val Ala Asn Thr Ser Phe Ala Ala Pro Gln Val Val Asp Lys Val
 20 25 30
 Ala Ala Val Val Asn Asn Gly Val Val Leu Glu Ser Asp Val Asp Gly
 35 40 45
 Leu Met Lys Ser Val Lys Leu Asn Ser Gly Gln Ala Gly Gln Gln Leu
 50 55 60
 Pro Asp Asp Ala Thr Leu Arg His Gln Ile Leu Glu Arg Leu Ile Met
 65 70 75 80
 Asp Gln Ile Val Leu Gln Met Gly Gln Lys Met Gly Val Lys Ile Ser
 85 90 95
 Asp Glu Gln Leu Asp Gln Ala Ile Ala Asn Ile Ala Lys Gln Asn Asn
 100 105 110
 Ile Thr Pro Asp Gln Met Arg Ser Arg Leu Ala Tyr Asp Gly Ile Ser
 115 120 125
 Tyr Ala Thr Tyr Arg Asn Gln Ile Arg Lys Glu Met Leu Ile Ser Glu
 130 135 140
 Val Arg Asn Asn Glu Val Arg Arg Arg Val Thr Ile Leu Pro Gln Glu
 145 150 155 160

Val Asp Ala Leu Ala Lys Gln Val Gly Asn Gln Asn Asp Ala Ser Thr
 165 170 175
 Glu Leu Asn Leu Ser His Ile Leu Ile Pro Leu Pro Glu Asn Pro Thr
 180 185 190
 Ser Asp Gln Ala Ala Glu Ala Glu Ser Gln Ala Arg Ala Ile Val Glu
 195 200 205
 Gln Ala Arg Asn Gly Asp Asp Phe Gly Lys Leu Ala Ile Thr Tyr Ser
 210 215 220
 Ala Asp Gln Gln Ala Leu Lys Gly Gly Gln Met Gly Trp Gly Arg Ile
 225 230 235 240
 Gln Glu Leu Pro Ser Leu Phe Ala Gln Ala Leu Ser Thr Ala Lys Lys
 245 250 255
 Gly Asp Ile Val Gly Pro Ile Arg Ser Gly Val Gly Phe His Ile Leu
 260 265 270
 Lys Val Asn Asp Leu Arg Gly Gln Ser Gln Asn Ile Ser Val Thr Glu
 275 280 285
 Val His Ala Arg His Ile Leu Leu Lys Pro Ser Pro Ile Met Thr Asp
 290 295 300
 Asp Gln Ala Arg Ala Lys Leu Glu Gln Ile Ala Ala Asp Ile Lys Ser
 305 310 315 320
 Gly Lys Thr Thr Phe Asp Lys Ala Ala Lys Glu Phe Ser Gln Asp Pro
 325 330 335
 Gly Ser Ala Asn Gln Gly Gly Asp Leu Gly Trp Ala Ala Ala Asp Ile
 340 345 350
 Tyr Asp Pro Ala Phe Arg Asp Ala Leu Met Lys Leu Asn Lys Gly Gln
 355 360 365
 Met Ser Ala Pro Val His Ser Ser Phe Gly Trp His Leu Ile Gln Leu
 370 375 380
 Met Asp Thr Arg Asn Val Asp Lys Thr Asp Ala Ala Gln Lys Asp Arg
 385 390 395 400
 Ala Tyr Arg Met Leu Phe Asn Arg Lys Phe Ser Glu Glu Ala Ala Thr
 405 410 415
 Trp Met Gln Glu Gln Arg Ala Ser Ala Tyr Val Lys Val Leu Ser Asn
 420 425 430

<210> 7433

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7433

Arg Pro Ser Arg Thr Thr Ser Ala Ser Ala Pro Thr Thr Phe Ser Ala
 1 5 10 15
 Asp Lys Ala Asn Ala Pro Ser Val Val Asp Ala Pro Leu Val Ala Ser
 20 25 30
 Ser Gly Ile Ile Ala Thr Ser Gly Met Ala Ala Ile Ser Trp Asn Asn
 35 40 45
 Ser Thr Glu Lys Val Leu Arg Pro Ile Cys Asp Thr Val Arg Leu Arg
 50 55 60
 Ser Phe Ile Ala Cys Met Ala Ile Ala Val Glu Glu Ser Ala Ser Val
 65 70 75 80
 Met Pro Ile Asn Ser Ala Thr Phe His Ser Ile Pro Ser Arg Met Gln
 85 90 95
 Asn Pro Pro Asn Ser Arg Pro Gln Ala Ser Ile Cys Arg Ala Pro Pro
 100 105 110
 Pro Asn Thr Glu Ala Arg Ser Phe His Ser Arg Cys Gly Ser Asn Ser
 115 120 125
 Arg Pro Ile Thr Asn Ser Ile Ser Thr Thr Pro Ile Ser Ala Lys Cys
 130 135 140

Arg Ile Asp Ser Ala Ser Val Thr Ser Arg Lys Pro Gln Gly Pro Ile
 145 150 155 160
 Thr His Pro Ala Ile Arg
 165

<210> 7434

<211> 479

<212> PRT

<213> *Enterobacter cloacae*

<400> 7434

Phe Gly Leu Leu Ala Asp Arg Lys Leu Gln Gly Thr Ala Arg Val Leu
 1 5 10 15
 Asp Gln Val Trp Arg Phe Asn Ile Asp Tyr Thr Lys Val Ser Asp Pro
 20 25 30
 Tyr Tyr Phe Asn Asp Phe Asp Ser Lys Tyr Gly Ser Ser Thr Asp Gly
 35 40 45
 Tyr Ala Thr Gln Lys Phe Ser Val Gly Tyr Ala Ile Glu Asn Phe Asp
 50 55 60
 Ala Thr Val Ser Thr Lys Gln Phe Gln Val Phe Asp Thr Gln Ser Arg
 65 70 75 80
 Ser Thr Tyr Gly Ala Glu Pro Gln Leu Asp Val Asn Trp Tyr Gln Asn
 85 90 95
 Asp Val Gly Pro Phe Asp Thr Arg Val Tyr Ala Gln Ala Val His Phe
 100 105 110
 Val Asn Thr Asn Ser Asp Met Pro Glu Ser Thr Arg Leu His Ile Glu
 115 120 125
 Pro Thr Ile Asn Leu Pro Trp Ser Asn Asp Trp Ala Ser Leu Asn Thr
 130 135 140
 Glu Ala Lys Val Met Ala Thr His Tyr Gln Gln Lys Asn Leu Asp Trp
 145 150 155 160
 Tyr Asn Lys Arg Tyr Gly Thr Asp Leu Glu Glu Ser Val Asn Arg Thr
 165 170 175
 Leu Pro Gln Phe Lys Met Asp Gly Lys Leu Ile Phe Glu Arg Asp Met
 180 185 190
 Ala Leu Leu Ala Asp Gly Tyr Thr Gln Thr Leu Glu Pro Arg Met Gln
 195 200 205
 Tyr Leu Tyr Val Pro Tyr Arg Asp Gln Ser Lys Ile Gln Asn Tyr Asp
 210 215 220
 Ser Ser Phe Leu Gln Ser Asp Tyr Ser Gly Leu Phe Arg Asp Arg Thr
 225 230 235 240
 Tyr Gly Gly Leu Asp Arg Ile Ala Ser Ala Asn Gln Leu Thr Thr Gly
 245 250 255
 Val Thr Thr Arg Val Tyr Asp Asp Ala Val Glu Arg Phe Asn Val
 260 265 270
 Ser Val Gly Gln Ile Tyr Tyr Phe Thr Glu Ser Arg Thr Gly Asp Asp
 275 280 285
 Asp Ile Asn Trp Glu Lys Asp Asn Lys Thr Gly Ser Leu Val Trp Ala
 290 295 300
 Gly Asp Thr Tyr Trp Arg Met Thr Asp Arg Trp Gly Leu Arg Gly Gly
 305 310 315 320
 Val Gln Tyr Asp Thr Arg Leu Asp Asn Ile Ala Thr Gly Ser Ala Ala
 325 330 335
 Ile Glu Tyr Arg Arg Asp Glu Asp Arg Met Leu Gln Leu Thr Tyr Arg
 340 345 350
 Tyr Ala Ser Pro Glu Tyr Ile Gln Ala Thr Leu Pro Asn Tyr Ala Asn
 355 360 365
 Thr Asp Gln Tyr Lys Asp Gly Ile Ser Gln Val Gly Thr Ala Ala Ser
 370 375 380
 Trp Pro Ile Ala Asp Arg Trp Ser Val Val Gly Ala Tyr Tyr Tyr Asp
 385 390 395 400

Thr Asn Ala Gln Lys Pro Ala Asp Gln Met Leu Gly Leu Gln Tyr Asn
 405 410 415
 Ser Cys Cys Tyr Ala Ile Arg Val Gly Tyr Glu Arg Lys Leu Asn Gly
 420 425 430
 Trp Asp Thr Gln Asn Ser Gln Gly Lys Tyr Asp Asn Val Ile Gly Phe
 435 440 445
 Asn Ile Glu Leu Arg Gly Leu Ser Ser Asn Tyr Gly Leu Gly Thr Gln
 450 455 460
 Gln Met Leu Arg Ser Asn Ile Leu Pro Tyr Arg Ser Ser Leu
 465 470 475

<210> 7435

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 7435

Tyr Ser Met Thr Asn Arg Val His Gln Gly His Leu Ala Arg Lys Arg
 1 5 10 15
 Phe Gly Gln Asn Phe Leu Asn Asp Gln Phe Val Ile Asp Ser Ile Val
 20 25 30
 Ser Ala Ile Asn Pro Gln Lys Gly Gln Ala Met Val Glu Ile Gly Pro
 35 40 45
 Gly Leu Ala Ala Leu Thr Glu Pro Val Gly Glu Arg Leu Asp Glu Leu
 50 55 60
 Thr Val Ile Glu Leu Asp Arg Asp Leu Ala Ala Arg Leu Gln Thr His
 65 70 75 80
 Pro Phe Leu Gly Pro Lys Leu Thr Ile Tyr Gln Gln Asp Ala Met Thr
 85 90 95
 Met Asn Phe Gly Glu Leu Ser Glu Lys Met Gly Gln Pro Leu Arg Val
 100 105 110
 Phe Gly Asn Leu Pro Tyr Asn Ile Ser Thr Pro Leu Met Phe His Leu
 115 120 125
 Phe Ser Tyr Thr Asp Ala Ile Ala Asp Met His Phe Met Leu Gln Lys
 130 135 140
 Glu Val Val Asn Arg Leu Val Ala Gly Pro Asn Ser Lys Ala Tyr Gly
 145 150 155 160
 Arg Leu Ser Val Met Ala Gln Tyr Tyr Cys Asn Val Ile Pro Val Leu
 165 170 175
 Glu Val Pro Pro Ser Ala Phe Thr Pro Pro Lys Val Asp Ser Ala
 180 185 190
 Val Val Arg Leu Val Pro His Lys Thr Met Pro Tyr Pro Val Lys Asp
 195 200 205
 Leu Arg Val Leu Ser Arg Ile Thr Thr Glu Ala Phe Asn Gln Arg Arg
 210 215 220
 Lys Thr Ile Arg Asn Ser Leu Gly Asn Leu Phe Thr Val Asp Val Leu
 225 230 235 240
 Ala Glu Leu Gly Ile Asp Pro Ala Met Arg Ala Glu Asn Ile Ser Val
 245 250 255
 Glu Gln Tyr Cys Lys Leu Ala Asn Tyr Ile Ser Asp Asn Ala Pro Pro
 260 265 270
 Lys Glu Ser
 275

<210> 7436

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 7436

Ala Met Ile Asp Ser Pro Arg Val Cys Val Gln Val Gln Ser Val Tyr

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1           5           10           15
Ile Glu Ser Gln Ser Thr Pro Asp Glu Arg Phe Val Phe Ala Tyr
      20      25      30
Thr Val Thr Ile Arg Asn Leu Gly Arg Met Pro Val Gln Leu Leu Gly
      35      40      45
Arg Tyr Trp Leu Ile Thr Asn Gly Asn Gly Arg Glu Ile Glu Val Gln
      50      55      60
Gly Glu Gly Val Val Gly Glu Gln Pro His Ile Ala Pro Gly Glu Glu
65      70      75      80
Tyr Gln Tyr Thr Ser Gly Ala Val Ile Glu Thr Pro Leu Gly Thr Met
      85      90      95
Gln Gly His Tyr Glu Met Val Asp Ala Asp Gly Asn Ala Phe Arg Ile
      100      105      110
Ala Ile Pro Val Phe Arg Leu Ala Val Pro Thr Leu Ile His
      115      120      125

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<210> 7437

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 7437

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Arg Ser Arg Asn Leu Asp Ala Gly Thr Thr Arg Gln Arg Leu Arg Glu
1           5           10           15
Ser Val Glu Gln Leu Met Lys Pro His Arg Val Val Ile Thr Pro Gly
      20      25      30
Glu Pro Ala Gly Ile Gly Pro Asp Leu Val Val Gln Leu Ala Gln Cys
      35      40      45
Ser Trp Pro Val Glu Leu Val Val Cys Ala Asp Ala Thr Leu Leu Gln
      50      55      60
Asp Arg Ala Ala Leu Leu Gly Leu Pro Leu Thr Leu Leu Pro Tyr Val
65      70      75      80
Glu Gly Gln Gln Pro Ala Pro Gln Gln Ser Gly Thr Leu Thr Leu Leu
      85      90      95
Ser Val Pro Leu Arg Ala Pro Val Val Pro Gly Glu Leu His Thr Glu
      100      105      110
Asn Gly His Tyr Val Val Glu Thr Leu Ala Arg Ala Cys Asp Gly Cys
      115      120      125
Leu Gln Gly Glu Phe Ala Ala Leu Ile Thr Gly Pro Val His Lys Gly
      130      135      140
Val Ile Asn Asp Ala Gly Ile Pro Phe Thr Gly His Thr Glu Phe Phe
145      150      155      160
Glu Glu Arg Ser His Ser Pro Lys Val Val Met Met Leu Ala Thr Glu
      165      170      175
Ala Met Arg Val Ala Leu Val Thr Thr His Leu Pro Ile Lys Ala Ile
      180      185      190
Pro Asp Ala Ile Thr Pro Glu Leu Leu Arg Glu Ile Ile Gly Ile Leu
      195      200      205
His His Asp Leu Gln Thr Lys Phe Gly Ile Pro Gln Pro His Val Leu
      210      215      220
Val Cys Gly Leu Asn Pro His Ala Gly Glu Gly His Met Gly Thr
225      230      235      240
Glu Glu Ile Asp Thr Ile Ile Pro Val Leu Glu Glu Met Arg Ala Lys
      245      250      255
Gly Met Asn Leu Ser Gly Pro Leu Pro Ala Asp Thr Leu Phe Gln Pro
      260      265      270
Lys Tyr Leu Asp Asn Ala Asp Ala Val Leu Ala Met Tyr His Asp Gln
      275      280      285
Gly Leu Pro Val Leu Lys Tyr Gln Gly Phe Gly Arg Gly Val Asn Ile
290      295      300
Thr Leu Gly Leu Pro Phe Ile Arg Thr Ser Val Asp His Gly Thr Ala

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305 310 315 320
 Leu Asp Leu Ala Gly Gln Gly Lys Ala Asp Val Gly Ser Phe Ile Thr
 325 330 335
 Ala Leu Asn Leu Ala Ile Lys Met Ile Val Asn Thr Gln
 340 345 350

<210> 7438

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 7438

Leu Lys Leu Arg Trp Val Pro Cys Arg Ala Ile Thr Lys Trp Ser Met
 1 5 10 15
 Pro Thr Val Met Leu Ser Ala Leu Leu Phe Pro Tyr Ser Val Ser Pro
 20 25 30
 Tyr Leu His Leu Phe Ile Asn Leu Met Ser Thr Tyr Leu Ile Gly Asp
 35 40 45
 Val His Gly Cys Tyr Asp Glu Leu Ile Ala Leu Leu Lys Gln Val Asp
 50 55 60
 Phe Thr Pro Gly Gln Asp Thr Leu Trp Leu Thr Gly Asp Leu Val Ala
 65 70 75 80
 Arg Gly Pro Gly Ser Leu Asp Val Leu Arg Tyr Val Lys Ser Leu Gly
 85 90 95
 Asp Ser Val Arg Met Val Leu Gly Asn His Asp Leu His Leu Leu Ala
 100 105 110
 Val Tyr Ala Gly Ile Ser Arg Asn Lys Pro Lys Asp Arg Ile Thr Pro
 115 120 125
 Leu Leu Glu Ala Pro Asp Ala Asp Glu Leu Leu Asn Trp Leu Arg Arg
 130 135 140
 Gln Pro Leu Leu Gln Ile Asp Glu Lys Lys Leu Val Met Ala His
 145 150 155 160
 Ala Gly Ile Thr Pro Gln Trp Asp Leu Glu Thr Ala Lys Thr Cys Ala
 165 170 175
 Arg Asp Thr Glu Ala Val Leu Ala Ser Asp Ser Tyr Pro Phe Phe Leu
 180 185 190
 Asp Ala Met Tyr Gly Asp Met Pro Asn Asn Trp Ser Asp Asp Leu Ser
 195 200 205
 Gly Leu Ala Arg Leu Arg Phe Ile Thr Asn Ala Phe Thr Arg Met Arg
 210 215 220
 Tyr Cys Phe Pro Asn Gly Gln Leu Asp Met Tyr Cys Lys Asp Thr Pro
 225 230 235 240
 Glu Asn Ala Pro Ala Pro Leu Lys Pro Trp Phe Ala Ile Pro Gly Pro
 245 250 255
 Val Thr Asn Glu Tyr Ser Val Val Phe Gly His Trp Ala Ser Leu Glu
 260 265 270
 Gly Lys Gly Thr Pro Glu Asn Ile Tyr Ala Leu Asp Thr Gly Cys Cys
 275 280 285
 Trp Gly Gly Asp Leu Thr Cys Leu Arg Trp Glu Asp Lys Thr Tyr Phe
 290 295 300
 Val Gln Pro Ser Asn Arg Gln Leu Asp Leu Gly Glu Gly Glu Ala Val
 305 310 315 320
 Ala Ser

<210> 7439

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 7439

Cys Ala Ala Gly Cys Gln Gln Arg Asp His Arg His Gln Arg Asp Gly
 1 5 10 15
 Ser Asn Ile Leu Glu Gln Gln Tyr Gly Glu Gly Ala Ala Pro His Leu
 20 25 30
 Arg His Arg Gln Val Thr Leu Val His Ser Leu His Gly Asn Ser Arg
 35 40 45
 Arg Gly Glu Arg Gln Arg His Ala Asp Gln Leu Arg Asp Phe Pro Leu
 50 55 60
 His Pro Glu Gln Asn Ala Glu Pro Ala Gln Gln Gln Thr Ala Gly Gln
 65 70 75 80
 His Leu Gln Ser Thr Ser Ala Lys His Arg Gly Ala Gln Phe Pro Gln
 85 90 95
 Pro Leu Arg Ile Gln Leu Gln Ala Asn His Glu Gln His Lys His His
 100 105 110
 Ala Asp Leu Arg Lys Met Gln Asp Arg Leu Gly Ile Arg His Gln Pro
 115 120 125
 Lys Thr Pro Gly Ala Asn Tyr Thr Pro Gly Asn Gln Ile Ala Glu His
 130 135 140
 Arg Ala Gln Pro Gln Thr Asn Arg His Gly His Asn
 145 150 155

<210> 7440

<211> 1034

<212> PRT

<213> Enterobacter cloacae

<400> 7440

Lys Asn Asn Asn Phe Met Leu Phe Cys Phe Glu Leu Asn Leu Lys Asp
 1 5 10 15
 Ser Gln Tyr Thr Phe Tyr Thr Arg Tyr Leu Met Phe Leu Leu Thr Gln
 20 25 30
 Met Asp Val Tyr Met Ser Lys Lys Phe Phe Lys Leu Asn Asn Thr Thr
 35 40 45
 Lys Thr Leu Gly Lys Ile Phe Pro Ala Leu Leu Ile Cys Thr Pro Ala
 50 55 60
 Val Ala Phe Ser Ala Ile Ile Asp Gln Ser Thr Ser Val Pro Gln Asp
 65 70 75 80
 Phe Ser Ala Asp Ala Glu Tyr Val Ile Asn Lys Asp Val Thr Ile Ser
 85 90 95
 Ser Ala Gly Ser Glu Ala Ala Val Ser Val Thr Gly Phe Thr Thr Thr
 100 105 110
 Thr Thr Thr Asn Tyr Gly Asn Ile Ser Gly Thr Gly Asn Gly Leu Asp
 115 120 125
 Ile Asn Thr Gly Glu Gln Arg Ile Leu Ile Asn Asn Asp Ile Gly Ala
 130 135 140
 Thr Ile Ser Ser Thr Thr Ala Asn Ala Val Asn Ile Gln Ser Met Leu
 145 150 155 160
 Gly Asp Phe Asn Asn Ser Gly Asn Ile Ile Gly Ala Glu Asn Gly Met
 165 170 175
 Phe Val Gly Glu Asn Ser Ser Ala Val Asn Ile Ile Asn Thr Ser Thr
 180 185 190
 Gly Met Ile Lys Gly Lys Thr Gly Leu Ser Thr Arg Tyr Gly Ile Gly
 195 200 205
 Ile Asn Asn Ser Gly Ala Ile Ile Gly Thr Asn Gly Asp Ala Ile Thr
 210 215 220
 Ala Thr Asn Gly Asn Thr Lys Leu Thr Asn Asn Ala Leu Val Glr Gly
 225 230 235 240
 Thr Glu Asn Gly Ile Asn Val Lys Asp Thr Ala Lys Leu Asp Ile Lys
 245 250 255
 Asn Ser Gly Thr Ile Ser Gly Asn Thr Ala Ala Ile Met Phe Ala Ser
 260 265 270

Asn Lys Asn Asn Thr Leu Val Leu Asp Thr Gly Ser Val Leu Val Gly
 275 280
 Asp Val Ile Ser Thr Asn Ser Thr Gly Asn Thr Leu Thr Leu Ile Gly
 290 295 300
 Thr Gly Thr Glu Asp Ser Asn Phe Val Gly Leu Asn Glu Gly Asp Gly
 305 310 315 320
 Phe Ala Ser Val Thr Met Asn Gly Glu Asn Trp Ala Leu Ser Gly Asp
 325 330 335
 Ile Asp Ile Ile Gly Ser Val Asp Ser Leu Met Ile Asp Lys Gly Ala
 340 345 350
 Leu Thr Leu Ala Gly Glu Val Ser Asn Thr Gly Asn Thr Arg Val Ala
 355 360 365
 Lys His Ala Ser Leu Gln Leu Gly Asp Gly Glu Lys Thr Ala Thr Leu
 370 375 380
 Ser Gly Gly Ile Thr Asn Asn Gly Thr Val Ile Phe Asn Gln Gly Ser
 385 390 395 400
 Asp Phe Thr Phe Ala Thr Asp Met Thr Gly Ser Gly Asn Val Glu Lys
 405 410 415
 Val Asp Ser Asn Thr Leu Thr Leu Thr Gly Lys Asn Ser Tyr Lys Gly
 420 425 430
 Asp Thr Val Leu His Gly Gly Thr Thr Leu Val Ser Thr Gly Ala Thr
 435 440 445
 Leu Gly Val Lys Gly Ser Asn Ala Thr Val Thr Val Glu Asn Gly Ala
 450 455 460
 Thr Phe Ala Thr Ala Gly Glu Val Asn Asn Asn Ile Ala Val Leu Ser
 465 470 475 480
 Gly Gly Thr Leu Ala Ala Trp Asn Ala Val Gln Gly Asn Ser Thr Leu
 485 490 495
 Ser Ala Ser Asp Val Asp Thr Ile Asn Gly Asn Val Thr Asn Gly Gly
 500 505 510
 Thr Leu Leu Ser Ala Ala Asp Asn Ser Val Gly Asn Asn Phe Ser
 515 520 525
 Ile Asn Gly Asp Tyr Thr Gly Ser Asp Gly Ser Gln Ile Val Met Asn
 530 535 540
 Ser Thr Leu Gly Glu Asp Asn Ser Pro Thr Asp His Leu Thr Ile Thr
 545 550 555 560
 Gly Ser Ser Phe Gly Gln Ser Gly Val Ser Ile Thr Asn Ile Gly Gly
 565 570 575
 Ala Gly Ala Gln Thr Ile Asn Gly Met Glu Ile Val Ser Ile Gly Gly
 580 585 590
 Ser Ser Glu Ala Gln Leu Thr Leu Ala Lys Pro Val Val Ala Gly Ala
 595 600 605
 Trp Glu Tyr Asn Leu Tyr Gln His Ser Asp Gly Asn Trp Tyr Leu Glu
 610 615 620
 Ser Lys Ala Thr Pro Ser Asp Asp Pro Ser Asp Asp Thr Asp Asp Gly
 625 630 635 640
 Gly Asn Thr Asp Asp Gly Gly Asn Thr Asp Asn Gly Gly Asn Thr Asp
 645 650 655
 Asn Gly Gly Asn Thr Asp Asn Gly Gly Asn Thr Asp Asn Gly Gly Asn
 660 665 670
 Thr Asp Asn Gly Gly Asn Thr Asp Asn Gly Gly Asn Thr Asp Asn Gly
 675 680 685
 Gly Asn Thr Asp Asn Gly Gly Asn Thr Asp Asn Gly Gly Asn Thr Asp
 690 695 700
 Asn Gly Gly Asn Thr Asp Asn Gly Gly Ser Thr Asp Asn Gly Gly Asn
 705 710 715 720
 Asn Ala Pro Glu Val Met Ala Pro Glu Val Gly Ala Tyr Leu Gly Asn
 725 730 735
 Tyr Leu Ala Ala Gln Gly Met Phe Leu His Lys Arg Asp Arg Asp
 740 745 750
 Gln Ile Thr Phe Arg Asn Glu Asp Asp Leu Asn Thr Trp Met Tyr Val

755 760 765
 Lys Gly Arg Tyr His Glu Asn Asp Ala Gly Gly Asn Lys Val Ser Tyr
 770 775 780
 Asp Thr Thr Thr Thr Val Leu Gln Val Gly Ser Asp Phe Met Ser Lys
 785 790 795 800
 Pro Met Asp Asn Gly Ile Leu Arg Ala Gly Met Phe Gly Ala Gly
 805 810 815
 Gln Ala Lys Thr His Ser Asp Ala Lys His Asn Val Arg Asp Ala Gln
 820 825 830
 Gly Lys Val Asp Gly Phe Asn Val Gly Leu Tyr Ala Thr Trp Gln Glu
 835 840 845
 Asp Gln Lys Leu Arg Leu Gly Ser Tyr Val Asp Thr Trp Ala Ala Tyr
 850 855 860
 Ser Trp Tyr Asn Asn Lys Val Thr Ser Asn Arg Asn Asp Glu Asp Tyr
 865 870 875 880
 Asp Ser Glu Gly Phe Ala Ala Ser Val Glu Val Gly His Ala Trp Val
 885 890 895
 Ile Gln Ser Glu Asn Glu Arg Thr Trp Lys Ile Glu Pro Gln Ala Gln
 900 905 910
 Val Ile Tyr Ser Tyr Leu Asp Gln Glu Asn His Thr Asp Arg Asp Gly
 915 920 925
 Val Arg Val Thr Thr Leu Asp Asn Asp Ser Val Phe Gly Arg Leu Gly
 930 935 940
 Val Lys Ala Ser Tyr Phe Gln Gln Lys Asp Val Lys Ala Trp Gln Pro
 945 950 955 960
 Tyr Val Ala Val Asn Trp Leu Lys Gly Ala Gly Gln Asn Asp Leu Ala
 965 970 975
 Phe Asn Asp Glu Thr Val Ser Asn Asp Thr Pro Glu Asp Arg Gly Gln
 980 985 990
 Leu Glu Leu Gly Val Thr Gly Asn Leu Asn Glu Thr Thr Thr Ile Ser
 995 1000 1005
 Leu Arg Ala Ser Gly Glu Trp Gly Glu Asn Ser Tyr Ala Ala Tyr Gly
 1010 1015 1020
 Gly His Ile Leu Leu Asn His Arg Trp
 1025 1030

<210> 7441

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 7441

Arg Phe Met Ser Pro Ile Glu Lys Ser Ser Lys Leu Asp Asn Val Cys
 1 5 10 15
 Tyr Asp Ile Arg Gly Pro Val Leu Lys Glu Ala Lys Arg Leu Glu Glu
 20 25 30
 Glu Gly Asn Lys Val Leu Lys Leu Asn Ile Gly Asn Pro Ala Pro Phe
 35 40 45
 Gly Phe Glu Ala Pro Asp Glu Ile Leu Val Asp Val Ile Arg Asn Leu
 50 55 60
 Pro Thr Ala Gln Gly Tyr Cys Asp Ser Lys Gly Leu Tyr Ser Ala Arg
 65 70 75 80
 Lys Ala Ile Met Gln His Tyr Gln Ala Arg Gly Met Arg Asp Val Thr
 85 90 95
 Val Glu Asp Ile Tyr Ile Gly Asn Gly Val Ser Glu Leu Ile Val Gln
 100 105 110
 Ala Met Gln Ala Leu Leu Asn Ser Gly Asp Glu Met Leu Val Pro Ala
 115 120 125
 Pro Asp Tyr Pro Leu Trp Thr Ala Ala Val Ser Leu Ser Ser Gly Lys
 130 135 140
 Ala Val His Tyr Leu Cys Asp Glu Ser Ser Asp Trp Phe Pro Asp Leu

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145          150          155          160
Asp Asp Ile Arg Ala Lys Ile Thr Pro Arg Thr Arg Gly Ile Val Ile
165          170          175
Ile Asn Pro Asn Asn Pro Thr Gly Ala Val Tyr Ser Lys Glu Leu Leu
180          185          190
Met Glu Ile Val Glu Ile Ala Arg Gln His Asn Leu Ile Ile Phe Ala
195          200          205
Asp Glu Ile Tyr Asp Lys Ile Leu Tyr Asp Ala Ala Gln His His Ser
210          215          220
Ile Ala Ala Leu Ala Pro Asp Leu Leu Thr Val Thr Phe Asn Gly Leu
225          230          235          240
Ser Lys Thr Tyr Arg Val Ala Gly Phe Arg Gln Gly Trp Met Val Leu
245          250          255
Asn Gly Pro Lys Lys His Ala Lys Gly Tyr Ile Glu Gly Leu Glu Met
260          265          270
Leu Ala Ser Met Arg Leu Cys Ala Asn Val Pro Ala Gln His Ala Ile
275          280          285
Gln Thr Ala Leu Gly Gly Tyr Gln Ser Ile Ser Glu Phe Ile Val Pro
290          295          300
Gly Gly Arg Leu Tyr Glu Gln Arg Asn Arg Ala Trp Glu Leu Ile Asn
305          310          315          320
Asp Ile Pro Gly Val Ser Cys Val Lys Pro Asn Gly Ala Leu Tyr Met
325          330          335
Phe Pro Lys Ile Asp Ala Lys Arg Phe Asn Ile His Asp Asp Gln Lys
340          345          350
Met Val Leu Asp Phe Leu Leu Gln Glu Lys Val Leu Leu Val Gln Gly
355          360          365
Thr Ala Phe Asn Trp Pro Trp Pro Asp His Val Arg Ile Val Thr Leu
370          375          380
Pro Arg Glu Asp Asp Leu Glu Met Ala Ile Ser Arg Phe Gly Arg Phe
385          390          395          400
Leu Ser Gly Tyr His Gln
405

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<210> 7442

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 7442

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Pro Met Ser Gln Ser His Phe Phe Ala His Leu Ser Arg Leu Lys Leu
1      5      10      15
Ile Asn Arg Trp Pro Leu Met Arg Asn Val Arg Thr Glu Asn Val Ser
20      25      30
Glu His Ser Leu Gln Val Ala Met Val Ala His Ala Leu Ala Ala Ile
35      40      45
Lys Asn Arg Lys Phe Asn Gly Gln Val Asn Ala Glu Arg Ile Ala Leu
50      55      60
Leu Ala Met Tyr His Asp Ala Ser Glu Val Leu Thr Gly Asp Leu Pro
65      70      75      80
Thr Pro Val Lys Tyr Phe Asn Ser Gln Ile Ala Gln Glu Tyr Lys Ala
85      90      95
Ile Glu Lys Ile Ala Gln Gln Lys Leu Ile Asp Met Val Pro Glu Glu
100      105      110
Leu Arg Asp Ile Phe Gly Pro Leu Ile Asp Glu His Gln Tyr Thr Glu
115      120      125
Glu Glu Lys Ser Leu Val Lys Gln Ala Asp Ala Leu Cys Ala Tyr Leu
130      135      140
Lys Cys Leu Glu Glu Leu Ser Ala Gly Asn Asn Glu Phe Leu Leu Ala
145      150      155      160
Lys Thr Arg Leu Glu Lys Thr Leu Glu Ser Arg Arg Ser Glu Glu Met

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165 170 175
 Asp Tyr Phe Met Arg Met Phe Val Pro Ser Phe His Leu Ser Leu Asp
 180 185 190
 Glu Ile Ser Gln Asp Ser Pro Leu
 195 200

<210> 7443
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 7443
 Arg Met Lys Leu Asn Arg Val Leu Ser Ala Gly Arg Cys Met Ser Leu
 1 5 10 15
 Thr Arg Lys Arg Arg Ser Thr Gly Lys Val Thr Leu Ala Asp Val Ala
 20 25 30
 Gln Leu Ala Gly Val Gly Thr Met Thr Val Ser Arg Ala Leu Arg Thr
 35 40 45
 Pro Glu Gln Val Ser Asp Lys Leu Arg Glu Lys Ile Glu Ala Ala Val
 50 55 60
 Gln Glu Leu Gly Tyr Met Pro Asn Leu Ala Ala Ser Ala Leu Ala Ser
 65 70 75 80
 Ala Ser Ser Trp Thr Ile Ala Met Val Val Pro Asn Leu Ser Glu Ala
 85 90 95
 Gly Cys Ser Glu Met Phe Ala Gly Leu Gln Gln Val Leu Gln Pro Ala
 100 105 110
 Gly Tyr Gln Ile Met Leu Ala Glu Ser Gln His Arg Leu Glu Gln Glu
 115 120 125
 Glu Lys Leu Leu Glu Thr Leu Leu Ala Ser Asn Ile Ala Ala Ala Ile
 130 135 140

145
 <210> 7444
 <211> 208
 <212> PRT
 <213> Enterobacter cloacae

<400> 7444
 Leu Ser Val Glu His Phe Asp Thr Val Arg His Trp Leu Lys Asn Ala
 1 5 10 15
 Tyr Ile Pro Val Met Glu Met Gly Ala Met Arg Ala Asp Pro Ile Asp
 20 25 30
 Met Asn Ile Gly Ile Asp Asn Val Ala Ala Met Tyr Glu Leu Thr Glu
 35 40 45
 Met Val Ile Gln Arg Gly Tyr Gln Asn Ile Gly Val Leu Cys Ala Asn
 50 55 60
 Gln Glu Gln Trp Ile Phe Gln Gln His Leu Gln Gly Trp Tyr Lys Ala
 65 70 75 80
 Met Leu Arg His His Leu Ala Pro Asn Arg Val Ile Asn Ala Ala Met
 85 90 95
 Pro Pro Asn Phe Ser Thr Gly Ala Ala Gln Leu Pro Glu Phe Leu Leu
 100 105 110
 Ala Trp Pro Glu Leu Asp Ala Leu Val Cys Val Ser Asp Glu Leu Ala
 115 120 125
 Cys Gly Ala Leu Tyr Glu Cys Gln Arg Arg Arg Ile Lys Val Pro Asp
 130 135 140
 Asp Leu Ala Val Val Gly Phe Gly Asp Ser Asp Val Ser Arg Val Cys
 145 150 155 160
 Gln Pro Pro Leu Thr Thr Met Ala Val Pro His Arg Lys Ile Gly Ile
 165 170 175

Glu Ala Gly Lys Ala Leu Leu Glu Arg Leu Asn Asp Gly Asp Trp Arg
 180 185 190
 Asp His Lys Pro Ile Ala Ser Ser Leu Cys Leu Arg Glu Ser Cys
 195 200 205

<210> 7445

<211> 413

<212> PRT

<213> Enterobacter cloacae

<400> 7445

Arg Phe Phe Ser His Val Ser Ile Ile Gly Thr Ser Met Ser Ser Lys
 1 5 10 15
 Leu Val Leu Val Leu Asn Cys Gly Ser Ser Ser Leu Lys Phe Ala Ile
 20 25 30
 Ile Asp Ala Leu Asn Gly Asp Glu Tyr Leu Ser Gly Leu Ala Glu Cys
 35 40 45
 Phe His Leu Pro Glu Ala Arg Ile Lys Trp Lys Met Asp Gly Ser Lys
 50 55 60
 Gln Glu Ala Ala Leu Gly Ala Gly Ala Ala His Ser Glu Ala Leu Asn
 65 70 75 80
 Phe Ile Val Asn Thr Ile Leu Ala Gln Lys Pro Glu Leu Ser Ala Gln
 85 90 95
 Leu Thr Ala Ile Gly His Arg Ile Val His Gly Gly Glu Lys Tyr Thr
 100 105 110
 Ser Ser Val Val Ile Asp Asp Ser Val Ile Gln Gly Ile Lys Asp Ser
 115 120 125
 Ala Ser Phe Ala Pro Leu His Asn Pro Ala His Leu Ile Gly Ile Ala
 130 135 140
 Glu Ala Leu Lys Ser Phe Pro Ser Leu Lys Asp Lys Asn Val Ala Val
 145 150 155 160
 Phe Asp Thr Ala Phe His Gln Thr Met Pro Glu Glu Ser Tyr Leu Tyr
 165 170 175
 Ala Leu Pro Tyr Ser Leu Tyr Lys Glu His Gly Val Arg Arg Tyr Gly
 180 185 190
 Ala His Gly Thr Ser His Phe Tyr Val Thr Gln Glu Ala Ala Lys Val
 195 200 205
 Leu Asn Lys Pro Val Glu Glu Val Asn Ile Ile Thr Cys His Leu Gly
 210 215 220
 Asn Gly Gly Ser Val Ser Ala Ile Arg Asn Gly Lys Cys Val Asp Thr
 225 230 235 240
 Ser Met Gly Leu Thr Pro Leu Glu Gly Leu Val Met Gly Thr Arg Ser
 245 250 255
 Gly Asp Ile Asp Pro Ala Ile Ile Phe His Leu His Asp Thr Leu Gly
 260 265 270
 Met Ser Val Asp Asp Ile Asn Lys Met Leu Thr Lys Glu Ser Gly Leu
 275 280 285
 Leu Gly Leu Thr Glu Val Thr Ser Asp Cys Arg Tyr Val Glu Asp Asn
 290 295 300
 Tyr Ala Glu Lys Ala Asp Ala Lys Arg Ala Met Asp Val Tyr Cys His
 305 310 315 320
 Arg Leu Ala Lys Tyr Ile Gly Ser Tyr Thr Ala Leu Met Glu Gly Arg
 325 330 335
 Leu Asp Ala Val Ile Phe Thr Gly Gly Ile Gly Glu Asn Ala Ala Met
 340 345 350
 Val Arg Glu Leu Ser Leu Gly Lys Leu Gly Val Leu Gly Phe Glu Val
 355 360 365
 Asp His Glu Arg Asn Leu Ala Ala Arg Phe Gly Lys Ser Gly Phe Ile
 370 375 380
 Asn Lys Glu Gly Thr Arg Pro Ala Ile Val Ile Pro Thr Asn Glu Glu
 385 390 395 400

Leu Val Ile Ala Gln Asp Ala His Arg Leu Thr Ala
 405 410

<210> 7446

<211> 715

<212> PRT

<213> *Enterobacter cloacae*

<400> 7446

Thr Val Ser Arg Thr Ile Met Leu Ile Pro Thr Gly Thr Ser Val Gly
 1 5 10 15
 Leu Thr Ser Val Ser Leu Gly Val Ile Arg Ala Met Glu Arg Lys Gly
 20 25 30
 Val Arg Leu Ser Val Phe Lys Pro Ile Ala Gln Pro Arg Ala Gly Gly
 35 40 45
 Asp Ala Pro Asp Gln Thr Thr Thr Ile Val Arg Lys Asn Ser Asn Leu
 50 55 60
 Pro Ala Ala Glu Pro Leu Lys Met Ser His Val Glu Ser Leu Leu Ser
 65 70 75 80
 Ser Asn Gln Lys Asp Val Leu Met Glu Glu Ile Ile Ala Asn Tyr His
 85 90 95
 Ala Asn Ala Gln Asp Ala Glu Val Val Glu Gly Leu Val Pro
 100 105 110
 Thr Arg Lys His Gln Phe Ala Gln Ser Leu Asn Phe Glu Ile Ala Lys
 115 120 125
 Thr Leu Asn Ala Glu Ile Val Phe Val Met Ser Gln Gly Thr Asp Thr
 130 135 140
 Pro Glu Gln Leu Lys Glu Arg Ile Glu Leu Thr Arg Ser Ser Phe Gly
 145 150 155 160
 Gly Ala Lys Asn Thr Ser Ile Thr Gly Val Ile Val Asn Lys Leu Asn
 165 170 175
 Ala Pro Val Asp Glu Gln Gly Arg Thr Arg Pro Asp Leu Ser Glu Ile
 180 185 190
 Phe Asp Asp Ser Ser Lys Ala Lys Val Ile Lys Val Asp Pro Ala Lys
 195 200 205
 Leu Gln Asp Ser Ser Pro Leu Pro Val Leu Gly Ala Val Pro Trp Ser
 210 215 220
 Phe Asp Leu Ile Ala Thr Arg Ala Ile Asp Met Ala Arg His Leu Asn
 225 230 235 240
 Ala Thr Val Ile Asn Glu Gly Asp Ile Asn Thr Arg Arg Val Lys Ser
 245 250 255
 Val Thr Phe Cys Ala Arg Ser Ile Pro His Met Leu Glu His Phe Arg
 260 265 270
 Ala Gly Ser Leu Leu Val Thr Ser Ala Asp Arg Pro Asp Val Leu Val
 275 280 285
 Ala Ala Cys Leu Ala Ala Met Asn Gly Val Glu Ile Gly Ala Ile Leu
 290 295 300
 Leu Thr Gly Gly Tyr Glu Met Asp Ala Arg Ile Ser Lys Leu Cys Glu
 305 310 315 320
 Arg Ala Phe Ala Thr Gly Leu Pro Val Phe Met Val Asn Thr Asn Thr
 325 330 335
 Trp Gln Thr Ser Leu Ser Leu Gln Ser Phe Asn Leu Glu Val Pro Val
 340 345 350
 Asp Asp His Glu Arg Ile Glu Lys Val Gln Glu Tyr Val Ala Gly Tyr
 355 360 365
 Ile Asn Ala Asp Trp Ile Glu Ser Leu Thr Ala Thr Ser Glu Arg Ser
 370 375 380
 Arg Arg Leu Ser Pro Pro Ala Phe Arg Tyr Gln Leu Thr Glu Leu Ala
 385 390 395 400
 Arg Lys Ala Gly Lys Arg Val Val Leu Pro Glu Gly Asp Glu Pro Arg
 405 410 415

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Thr Val Lys Ala Ala Ile Cys Ala Glu Arg Gly Ile Ala Thr Cys
420 425 430
Val Leu Leu Gly Asn Pro Asp Glu Ile Asn Arg Val Ala Ala Ser Gln
435 440 445
Gly Val Glu Leu Gly Ala Gly Ile Glu Ile Val Asp Pro Glu Val Val
450 455 460
Arg Glu Ser Tyr Val Ala Arg Leu Val Glu Leu Arg Lys Asn Lys Gly
465 470 475 480
Met Thr Glu Ala Val Ala Arg Glu Gln Leu Glu Asp Asn Val Val Leu
485 490 495
Gly Thr Leu Met Leu Glu Gln Asp Glu Val Asp Gly Leu Val Ser Gly
500 505 510
Ala Val His Thr Thr Ala Asn Thr Ile Arg Pro Pro Leu Gln Leu Ile
515 520 525
Lys Thr Ala Pro Gly Ser Ser Leu Val Ser Ser Val Phe Phe Met Leu
530 535 540
Leu Pro Glu Gln Val Tyr Val Tyr Gly Asp Cys Ala Ile Asn Pro Asp
545 550 555 560
Pro Thr Ala Glu Gln Leu Ala Glu Ile Ala Ile Gln Ser Ala Asp Ser
565 570 575
Ala Ile Ala Phe Gly Ile Glu Pro Arg Val Ala Met Leu Ser Tyr Ser
580 585 590
Thr Gly Thr Ser Gly Ala Gly Ser Asp Val Glu Lys Val Arg Glu Ala
595 600 605
Thr Arg Ile Ala Gln Glu Lys Arg Pro Asp Leu Met Ile Asp Gly Pro
610 615 620
Leu Gln Tyr Asp Ala Ala Val Met Ala Asp Val Ala Lys Ser Lys Ala
625 630 635 640
Pro Asn Ser Pro Val Ala Gly Arg Ala Thr Val Phe Ile Phe Pro Asp
645 650 655
Leu Asn Thr Gly Asn Thr Thr Tyr Lys Ala Val Gln Arg Ser Ala Asp
660 665 670
Leu Ile Ser Ile Gly Pro Met Leu Gln Gly Met Arg Lys Pro Val Asn
675 680 685
Asp Leu Ser Arg Gly Ala Leu Val Asp Asp Ile Val Tyr Thr Ile Ala
690 695 700
Leu Thr Ala Ile Gln Ser Ser Gln Gln Gln
705 710 715

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<210> 7447

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 7447

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Arg Leu Ile Arg Lys Leu His His Asn Cys Lys Arg Ala Glu Arg Ala
1 5 10 15
Leu Arg Arg Glu Gly Phe Pro Met Val Glu Gln Asn His Leu Ala Ser
20 25 30
Thr Glu Trp Val Asp Ile Val Ser Glu Glu Asn Glu Val Ile Ala Gln
35 40 45
Ala Ser Arg Glu Gln Met Arg Ala Glu Arg Leu Arg His Arg Ala Thr
50 55 60
Tyr Ile Val Val His Asp Gly Met Gly Lys Ile Leu Val Gln Arg Arg
65 70 75 80
Thr Asp Thr Lys Asp Phe Leu Pro Gly Met Leu Asp Ala Thr Ala Gly
85 90 95
Gly Val Val Gln Ala Asp Glu Val Leu Leu Asp Ser Ala Arg Arg Glu
100 105 110
Ala Glu Glu Glu Leu Gly Ile Ala Gly Val Pro Phe Ala Glu His Gly
115 120 125

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Gln Phe Tyr Phe Glu Asp Glu His Cys Arg Val Trp Gly Gly Leu Phe
 130 135 140
 Ser Cys Val Ser His Gly Pro Phe Ala Leu Gln Glu Glu Val Ser
 145 150 155 160
 Glu Val Ser Trp Met Thr Pro Glu Glu Ile Thr Ala Arg Cys Asp Glu
 165 170 175
 Phe Thr Pro Asp Ser Leu Lys Ala Leu Ala Leu Trp Met Thr Arg Asn
 180 185 190
 Ala Lys Asn Glu Ser Ala Lys Pro Glu Asn Lys Ala Glu Lys Glu Glu
 195 200 205
 Glu Ala Glu
 210

<210> 7448
 <211> 102
 <212> PRT
 <213> Enterobacter cloacae

<400> 7448
 Trp Gly Val Leu Tyr Ser Lys Lys Gly Ile Thr Met Lys Ile Met Ala
 1 5 10 15
 Ile Cys Gly Ser Gly Leu Gly Ser Ser Phe Met Val Glu Met Asn Ile
 20 25 30
 Lys Lys Val Leu Lys Lys Leu Glu Ile Glu Ala Glu Val Glu His Ser
 35 40 45
 Asp Leu Ser Ser Ala Thr Pro Gly Ala Ala Asp Leu Phe Val Met Ala
 50 55 60
 Lys Asp Ile Ala Ala Ser Ala Ser Val Pro Glu Ser Gln Leu Val Val
 65 70 75 80
 Ile Asn Asn Ile Ile Asp Ile Asn Glu Leu Glu Ala Gln Leu Arg Ala
 85 90 95
 Trp Phe Glu Arg Gln
 100

<210> 7449
 <211> 468
 <212> PRT
 <213> Enterobacter cloacae

<400> 7449
 Gly Glu Val Asp Met Phe Ile Leu Glu Thr Leu Asn Phe Val Val Asp
 1 5 10 15
 Ile Leu Lys Val Pro Ser Val Leu Val Gly Leu Ile Ala Leu Ile Gly
 20 25 30
 Leu Val Ala Gln Lys Lys Ala Phe Ser Asp Val Val Lys Gly Thr Ile
 35 40 45
 Lys Thr Ile Leu Gly Phe Ile Val Leu Gly Gly Gly Ala Thr Val Leu
 50 55 60
 Val Gly Ser Leu Asn Pro Leu Gly Gly Met Phe Glu His Ala Phe Asn
 65 70 75 80
 Ile Gln Gly Ile Ile Pro Asn Asn Glu Ala Ile Val Ser Ile Ala Leu
 85 90 95
 Glu Lys Tyr Gly Ala Ser Thr Ala Leu Ile Met Ala Phe Gly Met Val
 100 105 110
 Ala Asn Ile Ile Val Ala Arg Phe Thr Arg Leu Lys Tyr Ile Phe Leu
 115 120 125
 Thr Gly His His Thr Phe Tyr Met Ala Cys Met Ile Gly Val Ile Leu
 130 135 140
 Thr Val Ala Gly Phe Glu Gly Val Gly Leu Val Phe Thr Gly Ser Leu
 145 150 155 160
 Ile Leu Gly Leu Ile Met Ala Phe Phe Pro Ala Ile Ala Gln Arg Tyr

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      165      170      175
Met Lys Arg Ile Thr Gly Asn Asp Glu Ile Ala Phe Gly His Phe Gly
      180      185      190
Thr Leu Gly Tyr Val Leu Ser Gly Trp Ile Gly Ser Lys Val Gly Lys
      195      200      205
Gly Ser Arg Ser Thr Glu Glu Met Asn Leu Pro Lys Asn Leu Ser Phe
      210      215      220
Leu Arg Asp Ser Ser Ile Ser Ile Ser Leu Thr Met Met Ile Ile Tyr
      225      230      235
Leu Ile Met Ala Val Ser Ala Gly Arg Glu Tyr Val Glu Ala Thr Phe
      245      250      255
Ser Gly Gly Gln Asn Tyr Leu Val Tyr Ala Ile Ile Met Ala Ile Thr
      260      265      270
Phe Ala Ala Gly Val Phe Ile Ile Leu Gln Gly Val Arg Leu Ile Leu
      275      280      285
Ala Glu Ile Val Pro Ala Phe Thr Gly Phe Ser Glu Lys Leu Val Pro
      290      295      300
Asn Ala Arg Pro Ala Leu Asp Cys Pro Val Val Tyr Pro Tyr Ala Pro
      305      310      315
Asn Ala Val Leu Ile Gly Phe Leu Phe Ser Phe Leu Gly Gly Ile Val
      325      330      335
Gly Leu Phe Ile Cys Gly Gln Phe Ser Trp Val Leu Ile Leu Pro Gly
      340      345      350
Val Val Pro His Phe Phe Thr Gly Ala Thr Ala Gly Val Phe Gly Asn
      355      360      365
Ala Thr Gly Gly Arg Arg Gly Ala Met Ile Gly Ala Phe Ala Asn Gly
      370      375      380
Leu Leu Ile Thr Phe Leu Pro Val Leu Leu Leu Pro Val Leu Gly Ala
      385      390      395
Ile Gly Phe Ala Asn Thr Thr Phe Ser Asp Ala Asp Phe Gly Ala Val
      405      410      415
Gly Ile Val Leu Gly Asn Leu Ala Arg Phe Leu Ser Pro Phe Ala Ile
      420      425      430
Thr Gly Leu Val Val Val Leu Phe Ala Leu Leu Val Ala Tyr Asn Val
      435      440      445
Phe Ala Lys Asn Lys Pro Ala Ser Gly Asn Ala Gln Glu Asn Pro Gly
      450      455      460
Ala Lys Ser
465

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<210> 7450

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 7450

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Leu Arg Arg Ala Lys Arg Arg Ser Thr Arg Arg Phe Ala Asn Trp Arg
1      5      10      15
Leu His Met Ile Lys Val Ala Pro Thr Gly Gln Lys Asp Ala Val Glu
      20      25      30
Met Arg Lys Val Tyr Ala Gly Phe Val Ala Lys Gln Ile Glu Ala Gly
      35      40      45
Ser Glu Ile Ile Ala Leu Glu Ala Asp Leu Met Ser Ser Met Ala Met
      50      55      60
Asp Gly Val Ala Arg Asp Tyr Pro Gln His Val Ile Asn Cys Gly Ile
      65      70      75
Met Glu Ala Asn Val Ile Gly Thr Ala Ala Gly Leu Ser Leu Thr Gly
      85      90      95
Arg Lys Pro Phe Val His Thr Phe Thr Ala Phe Ala Ser Arg Arg Cys
      100      105      110
Phe Asp Gln Leu Phe Met Ser Leu Asp Tyr Gln Arg Asn Asn Val Lys

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      115              120              125
Val Ile Ala Ser Asp Ala Gly Val Thr Ala Cys His Asn Gly Gly Thr
130              135              140
His Met Ser Phe Glu Asp Met Gly Ile Val Arg Gly Leu Ala His Ser
145              150              155              160
Val Val Leu Glu Val Thr Asp Ala Val Met Phe Glu Asp Val Leu Arg
      165              170              175
Gln Leu Ile Asp Leu Glu Gly Phe Tyr Trp Val Arg Thr Ile Arg Lys
      180              185              190
Gln Ala Pro Ser Val Tyr Ala Pro Gly Ser Thr Phe Thr Ile Gly Lys
      195              200              205
Gly Asn Val Leu Arg Glu Gly Thr Asp Ile Thr Leu Ile Ala Asn Gly
      210              215              220
Ile Met Val Ala Glu Ala Leu Glu Ala Ala Arg Gln Leu Glu Gln Glu
      225              230              235              240
Gly Val Ser Ala Ala Val Ile Asp Met Phe Thr Leu Lys Pro Ile Asp
      245              250              255              260
Arg Met Leu Val Lys Asn Tyr Ala Glu Lys Thr Gly Arg Ile Val Thr
      265              270              275
Cys Glu Asn His Ser Ile His Asn Gly Leu Gly Ser Ala Val Ala Glu
      280              285              290
Val Leu Val Glu Thr Cys Pro Val Pro Leu Arg Arg Val Gly Val Lys
      295              300
Glu Arg Tyr Gly Gln Val Gly Thr Gln Asp Phe Leu Gln Lys Glu Tyr
      305              310              315              320
Gly Leu Thr Ala His Asp Ile Val Ser Ala Ala Arg Glu Leu Leu
      325              330              335

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<210> 7451

<211> 155

<212> PRT

<213> Enterobacter cloacae

<400> 7451

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Gly Thr Ala Met Ser Thr Pro Glu Ile Pro Ser Val Asn Phe Phe Ser
1      5      10
Leu Phe Arg Arg Gly Gln His Tyr Ala Lys Thr Trp Pro Met Glu Lys
      20      25      30
Arg Leu Ala Pro Met Phe Ile Glu Asn Arg Thr Ile Arg Ala Thr Arg
      35      40      45
Tyr Ala Ile Arg Phe Met Pro Pro Ile Ala Val Phe Thr Leu Cys Trp
      50      55      60
Gln Ile Ala Leu Gly Gly Gln Leu Gly Pro Ala Val Ala Thr Ala Leu
      65      70      75      80
Phe Ala Leu Ser Leu Pro Met Gln Gly Leu Trp Trp Leu Gly Lys Arg
      85      90      95
Ser Val Thr Pro Leu Pro Pro Ser Ile Leu His Trp Phe Tyr Glu Val
      100      105      110
Arg Gly Lys Leu Glu Glu Ala Gly Gln Ala Leu Ala Pro Val Glu Gly
      115      120      125
Lys Pro Asp Tyr Gln Ala Leu Ala Asp Thr Leu Lys Arg Ala Phe Lys
      130      135      140
Gln Leu Asp Lys Thr Phe Leu Asp Asp Leu
      145      150      155

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<210> 7452

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 7452

Cys Leu Thr Glu Val Arg Val Gln Cys Lys Gly Phe Leu Phe Asp Leu
 1 5 10 15
 Asp Gly Thr Leu Val Asp Ser Leu Pro Val Val Glu Arg Ser Trp Cys
 20 25 30
 His Trp Ala Asp Arg His Gly Ile Asp His Gln Asp Val Leu Asn Phe
 35 40 45
 Ile His Gly Lys Gln Ala Ile Thr Ser Leu Arg His Phe Leu Ala Gly
 50 55 60
 Arg Ser Glu Glu Glu Ile Gln Ala Glu Phe Arg Tyr Leu Glu Gln Ile
 65 70 75 80
 Glu Ala Thr Asp Thr Glu Gly Ile Thr Ala Leu Pro Gly Ala Arg Glu
 85 90 95
 Leu Leu Glu His Leu Asn Glu Ala Gln Ile Pro Trp Ala Ile Val Thr
 100 105 110
 Ser Gly Ser Val Pro Val Ala His Ala Arg His Lys Ala Ala Gly Leu
 115 120 125
 Pro Thr Pro Asp Val Phe Ile Thr Ala Glu Arg Val Lys Arg Gly Lys
 130 135 140
 Pro Glu Pro Asp Ala Phe Leu Leu Gly Ala Glu Leu Leu Gly Leu Ala
 145 150 155 160
 Pro Ala Glu Cys Val Val Val Glu Asp Ala Ala Ala Gly Val Leu Ala
 165 170 175
 Gly Leu Asn Ala Gly Ser His Val Ile Ala Val Asn Val Pro Ala Gly
 180 185 190
 Ser Pro Arg Leu Glu Glu Ala Asp Phe Val Leu Asn Thr Leu Thr Ala
 195 200 205
 Ile Asp Val Ser Lys Ala Ser Asp Gly Val Val Thr Val Ser Leu Lys
 210 215 220
 Met
 225

<210> 7453

<211> 615

<212> PRT

<213> Enterobacter cloacae

<400> 7453

Gln Gly His Val Val Asn Gly Glu Leu Ile Trp Val Leu Ser Leu Leu
 1 5 10 15
 Leu Ile Ala Ile Ile Leu Phe Ala Thr Gly Lys Val Arg Met Asp Ala
 20 25 30
 Val Ala Leu Phe Val Ile Val Ala Phe Val Leu Ser Gly Thr Leu Ser
 35 40 45
 Leu Pro Glu Ala Phe Ser Gly Phe Ser Asp Pro Asn Val Ile Leu Ile
 50 55 60
 Ala Ala Leu Phe Ile Ile Gly Asp Gly Leu Val Arg Thr Gly Val Ala
 65 70 75 80
 Thr Met Met Gly Ser Trp Leu Val Lys Val Ala Gly Ser Ser Glu Thr
 85 90 95
 Lys Met Leu Ile Tyr Leu Met Leu Thr Val Ala Gly Leu Gly Ala Phe
 100 105 110
 Met Ser Ser Thr Gly Val Val Ala Ile Phe Ile Pro Val Val Leu Ser
 115 120 125
 Val Cys Met Arg Met Gln Ile Ser Pro Ser Arg Leu Met Met Pro Leu
 130 135 140
 Ser Phe Ala Gly Leu Ile Ser Gly Met Met Thr Leu Val Ala Thr Pro
 145 150 155 160
 Pro Asn Leu Val Val Asn Ser Glu Leu Ile Arg Glu Gly Leu Glu Gly
 165 170 175
 Phe Ser Phe Phe Ser Val Thr Pro Ile Gly Leu Val Val Leu Val Met
 180 185 190

Gly Ile Ile Tyr Met Leu Leu Thr Arg Phe Ala Leu Lys Gly Glu Lys
 195 200 205
 Gln Asp Lys Ala Lys Glu Gly Trp Lys Arg Arg Ser Phe Arg Asp Leu
 210 215 220
 Ile Lys Glu Tyr Arg Leu Thr Gly Arg Ala Arg Arg Leu Ala Ile Arg
 225 230 235 240
 Pro Gly Ser Pro Met Val Gly Gln Arg Leu Asp Asp Leu Lys Leu Arg
 245 250 255
 Glu Arg Tyr Gly Ala Asn Val Ile Gly Val Glu Arg Trp Arg Arg Phe
 260 265 270
 Arg Arg Val Ile Val Asn Val Asn Gly Val Ser Glu Phe Arg Ala Arg
 275 280 285
 Asp Val Leu Leu Ile Asp Met Ser Thr Ala Asp Val Asp Leu Arg Glu
 290 295 300
 Phe Cys Ser Glu Gln Leu Leu Glu Pro Met Val Leu Arg Gly Glu Tyr
 305 310 315 320
 Phe Ser Asp Gln Ala Leu Asp Val Gly Met Ala Glu Val Ser Leu Ile
 325 330 335
 Pro Glu Ser Glu Leu Leu Gly Lys Thr Val Arg Glu Ile Gly Phe Arg
 340 345 350
 Thr Arg Tyr Gly Leu Asn Val Val Gly Leu Lys Arg Asp Gly Val Ala
 355 360 365
 Leu Glu Gly Ala Val Val Asp Glu Pro Ile Leu Leu Gly Asp Ile Phe
 370 375 380
 Leu Val Val Gly Asn Trp Lys Leu Ile Ser Gln Leu Gly Gln Lys Gly
 385 390 395 400
 Arg Asp Phe Val Val Leu Asn Met Pro Ile Glu Glu Ser Asp Ala Ser
 405 410 415
 Pro Ala His Ser Gln Ala Pro His Ala Ile Phe Cys Leu Val Leu Met
 420 425 430
 Val Ala Leu Met Leu Thr Asp Glu Ile Pro Asn Pro Val Ala Ala Ile
 435 440 445
 Ile Ala Cys Leu Leu Met Gly Lys Phe Arg Cys Ile Asp Ala Glu Ser
 450 455 460
 Ala Tyr Lys Ala Ile His Trp Pro Ser Ile Ile Leu Ile Val Gly Met
 465 470 475 480
 Met Pro Phe Ala Leu Ala Leu Gln Lys Thr Gly Gly Val Asp Leu Ile
 485 490 495
 Val Lys Gly Leu Met Asp Ala Gly Gly Tyr Gly Pro Tyr Leu Met
 500 505 510
 Met Val Cys Leu Phe Val Met Cys Ala Thr Ile Gly Leu Phe Ile Ser
 515 520 525
 Asn Thr Ala Thr Ala Val Leu Met Ala Pro Ile Ala Leu Ala Met Ala
 530 535 540
 Lys Ser Met Gly Val Ser Pro Tyr Pro Phe Ala Met Met Val Ala Met
 545 550 555 560
 Ala Ala Ser Ala Ala Phe Met Thr Pro Val Ser Ser Pro Val Asn Thr
 565 570 575
 Leu Val Leu Gly Pro Gly Asn Tyr Arg Phe Ser Asp Phe Val Lys Leu
 580 585 590
 Gly Val Pro Phe Thr Val Leu Val Met Val Val Cys Val Val Leu Ile
 595 600 605
 Pro Val Leu Phe Pro Phe
 610 615

<210> 7454

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 7454

Lys Asp Met Ile Asn Ala Asn Arg Pro Ile Met Asn Leu Asp Leu Asp
 1 5 10 15
 Leu Leu Arg Thr Phe Val Ala Val Ala Asp Leu Asn Thr Phe Ala Ala
 20 25 30
 Ala Ala Ala Ala Val Cys Arg Thr Gln Ser Ala Val Ser Gln Gln Met
 35 40 45
 Gln Arg Leu Glu Gln Leu Val Gly Lys Glu Leu Phe Ala Arg His Gly
 50 55 60
 Arg Asn Lys Leu Leu Thr Glu His Gly Ile Gln Leu Leu Gly Tyr Ala
 65 70 75 80
 Arg Lys Ile Leu Arg Phe Asn Asp Glu Ala Cys Met Ser Leu Met Phe
 85 90 95
 Ser Asn Leu Gln Gly Val Leu Thr Leu Gly Ala Ser Asp Glu Ser Ala
 100 105 110
 Asp Thr Ile Leu Pro Phe Leu Leu Asn Arg Ile Ser Ser Val Tyr Pro
 115 120 125
 Lys Leu Ala Leu Asp Val Ser Val Lys Arg Asn Ala Phe Met Val Glu
 130 135 140
 Met Leu Thr Glu Asn Glu Val Asp Leu Val Val Thr Thr His Arg Pro
 145 150 155 160
 Gly Gln Phe Asp Ser Leu Thr Leu Arg Thr Ser Pro Thr His Trp Tyr
 165 170 175
 Cys Ala Ala Glu Tyr Val Leu Gln Lys Gly Glu Pro Ile Pro Leu Val
 180 185 190
 Leu Leu Asp Asp Pro Ser Pro Phe Arg Asp Met Val Leu Ala Ala Leu
 195 200 205
 Asn Glu Ala Ser Ile Pro Trp Arg Leu Ala Tyr Val Ala Ser Thr Leu
 210 215 220
 Pro Ala Val Arg Ala Ala Val Lys Ala Gly Leu Gly Val Thr Ala Arg
 225 230 235 240
 Pro Val Glu Met Met Ser Pro Asp Leu Arg Val Leu Gly Gln Ser Glu
 245 250 255
 Gly Leu Pro Ser Leu Pro Asp Thr Glu Tyr Leu Leu Cys His Asn Ala
 260 265 270
 Ala Ser Asn Asn Glu Leu Ala Lys Val Val Phe Glu Ala Met Glu Asn
 275 280 285
 Tyr His Asn Pro Trp Gln Tyr Ala Ala Val
 290 295

<210> 7455

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7455

Leu Met Lys Leu Met Phe Ala Ser Asp Ile His Gly Ser Leu Pro Ala
 1 5 10 15
 Thr Glu Arg Val Leu Ser Leu Phe Ala Gln Ser Gly Ala Gln Trp Leu
 20 25 30
 Val Ile Leu Gly Asp Val Leu Asn His Gly Pro Arg Asn Ala Leu Pro
 35 40 45
 Glu Gly Tyr Ala Pro Ala Gln Val Ala Glu Lys Leu Asn His Phe Ala
 50 55 60
 Ser Arg Ile Ile Ala Val Arg Gly Asn Cys Asp Ser Glu Val Asp Gln
 65 70 75 80
 Met Leu Leu His Phe Pro Ile Thr Ala Pro Trp Gln Gln Val Leu Met
 85 90 95
 Glu Asn Ser Arg Leu Phe Leu Thr His Gly His Leu Phe Gly Pro Asp
 100 105 110
 Asn Leu Pro Ser Leu Ala Ala Gly Asp Val Leu Val Tyr Gly His Thr
 115 120 125

His Ile Pro Val Ala Glu Lys Arg Gly Ala Phe Tyr His Phe Asn Pro
 130 135 140
 Gly Ser Val Ser Ile Pro Lys Gly Gly Asn Pro Ala Ser Tyr Gly Met
 145 150 155 160
 Tyr Glu Asp Gly Thr Leu Ser Val Ile Ala Leu Asn Asp Gln Gln Val
 165 170 175
 Ile Ala Gln Ile Ala Ile Asn Pro 185
 180

<210> 7456

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7456

Lys Met Leu Lys Lys Trp Ile Tyr Asp Thr Thr Ile Ile Leu Gln Asp
 1 5 10 15
 Ser Val Glu Ser Trp Pro Gln Ala Leu Glu Leu Cys Ala Lys Pro Leu
 20 25 30
 Leu Asp Leu Gln Val Ile Ala Pro Glu Tyr Val Thr Ala Ile Ile Glu
 35 40 45
 Lys His His Thr Leu Gly Pro Tyr Tyr Val Leu Ala Pro Gly Leu Ala
 50 55 60
 Met Pro His Ala Arg Pro Glu Glu Gly Ala Lys Gly Leu Gly Leu Ser
 65 70 75 80
 Leu Leu Lys Leu Lys Gln Gly Val Ser Phe Gly Ala Gly Glu Phe Asp
 85 90 95
 Pro Val Asp Val Ile Val Met Leu Ala Ala Pro Asp Lys His Ser His
 100 105 110
 Ile Glu Met Ile Ser Ala Leu Ala Glu Leu Phe Ser Ser Asp Glu Asp
 115 120 125
 Met Ala Glu Leu His Arg Ala Asn Thr Leu Glu Glu Ile Lys Thr Ile
 130 135 140
 Ile Asp Arg Phe
 145

<210> 7457

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 7457

Arg Ala Gly Lys Pro Arg Ser Gln Ile Met Asn Glu Asn Glu Ile Thr
 1 5 10 15
 Glu Leu Ala Arg Gln Ile Arg Leu Glu Thr Leu Lys Ser Leu Thr Gln
 20 25 30
 Leu Gly Phe Gly His Tyr Gly Gly Ser Met Ser Val Val Glu Thr Leu
 35 40 45
 Ala Val Leu Tyr Gly Ala Val Met Lys Ile Asp Pro Ala Asp Pro Asp
 50 55 60
 Trp Pro Glu Arg Asp Tyr Phe Val Leu Ser Lys Gly His Ala Gly Pro
 65 70 75 80
 Ala Leu Tyr Ser Thr Leu Ala Ile Lys Gly Tyr Phe Pro Ile Asp Glu
 85 90 95
 Leu Ser Thr Leu Asn Gln Asn Gly Thr Arg Leu Pro Ser His Pro Asp
 100 105 110
 Arg Leu Lys Thr Arg Gly Val Asp Ala Thr Thr Gly Ser Leu Gly Gln
 115 120 125
 Gly Ile Ser Ile Ala Gly Gly Met Ala Leu Ser His Lys Leu Ala Gly
 130 135 140
 Arg Pro Asn Arg Val Phe Cys Ile Val Gly Asp Gly Glu Leu Asn Glu

145 150 155 160
 Gly Gln Cys Trp Glu Ala Phe Gln Phe Ile Ala His His Arg Leu Asn
 165 170 175
 Asn Leu Thr Val Phe Val Asp Trp Asn Lys Gln Gln Leu Asp Gly Glu
 180 185 190
 Leu Asp Glu Ile Ile Ser Ala Phe Asp Leu Glu Gly Lys Phe Arg Ala
 195 200 205
 Phe Gly Phe Asp Val Val Thr Val Lys Gly Asp Asp Ile Pro Ala Leu
 210 215 220
 Leu Glu Val Thr Ala Pro Ile Pro Ala Ala Asp Ala Arg Pro Arg Val
 225 230 235 240
 Val Ile Leu Asp Ser Ile Lys Gly Gln Gly Val Pro Tyr Leu Glu Gln
 245 250 255
 Leu Ser Asn Ser His His Leu Arg Leu Thr Glu Glu Ser Lys Ala Ala
 260 265 270
 Leu Asn Glu Thr Ile Arg Gln Leu Glu Ala Ser His Asp
 275 280 285

<210> 7458

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 7458

Gln Ser Val Thr Val Ser Phe Phe Tyr Ser Ala Met Arg Tyr Arg Ser
 1 5 10 15
 Arg Lys Met Glu Met Thr His Ala Gln Arg Leu Ile Leu Ser Asn Gln
 20 25 30
 Tyr Lys Met Met Thr Met Leu Asp Pro Asp Asn Ala Ala Arg Tyr Ser
 35 40 45
 Arg Leu Gln Thr Ile Val Glu Arg Gly Phe Gly Leu Gln Met Arg Glu
 50 55 60
 Leu Asp Arg Glu Phe Gly Glu Leu Lys Glu Thr Cys Arg Ile Val
 65 70 75 80
 Ile Asp Ile Met Glu Met Tyr His Ala Leu His Val Ser Trp Thr Asn
 85 90 95
 Leu Lys Asp Gln Gln Thr Ile Asp Glu Arg Arg Val Thr Phe Leu Gly
 100 105 110
 Phe Asp Ala Ala Thr Glu Ala Arg Tyr Leu Ser Tyr Val Arg Phe Met
 115 120 125
 Val Asn Thr Glu Gly Arg Tyr Thr His Phe Asp Ala Gly Thr His Gly
 130 135 140
 Phe Asn Ala Gln Thr Pro Met Trp Asp Lys Tyr Gln Arg Met Leu Ser
 145 150 155 160
 Ala Trp His Ala Cys Pro Arg Gln Tyr His Leu Ser Ser Asn Glu Ile
 165 170 175
 Gln Gln Ile Ile Asn Ala
 180

<210> 7459

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 7459

Pro Val Lys Gly Ile Thr Gly Ala Val Leu Arg Leu Ile Val Leu Phe
 1 5 10 15
 Thr Asp Ser Val Asp Leu Asp Ala Ala Phe Leu Ser Ala Asp Gln Gly
 20 25 30
 Cys Ser Gly Ala Tyr Gly Leu Leu Leu Asn Asn Ala Ser Ala Thr
 35 40 45

Gly Glu Gln Tyr Arg Tyr Arg Gln Ala Lys Asn His Ile Phe His Arg
 50 55 60
 Gly Tyr Ile Pro Gly His Ser
 65 70

<210> 7460

<211> 461

<212> PRT

<213> *Enterobacter cloacae*

<400> 7460

Ile Val Leu Lys Gln Val Pro Gly Asn Ala Leu Thr Gly Pro Thr Lys
 1 5 10 15
 Cys Pro Ala Leu Thr Asp Ala Ala Ser Trp Gln Met Gln Tyr Gly Gly
 20 25 30
 Tyr Met Thr Trp Phe Ile Asp Arg Arg Leu Asn Gly Lys Asn Lys Ser
 35 40 45
 Thr Val Asn Arg Gln Arg Phe Leu Arg Arg Tyr Lys Ala Gln Ile Lys
 50 55 60
 Gln Ser Ile Ser Glu Ala Ile Asn Lys Arg Ser Val Thr Asp Val Asp
 65 70 75 80
 Ser Gly Glu Ser Val Ser Ile Pro Asn Asp Asp Ile Ser Glu Pro Met
 85 90 95
 Phe His Gln Gly Arg Gly Gly Leu Arg His Arg Val His Pro Gly Asn
 100 105 110
 Asp His Phe Val Gln Asn Asp Arg Ile Glu Arg Pro Gln Gly Gly Gly
 115 120 125
 Gly Gly Ser Gly Ser Gly Gln Gly Gln Ala Ser Gln Asp Gly Glu Gly
 130 135 140
 Gln Asp Glu Phe Val Phe Gln Ile Ser Lys Asp Glu Tyr Leu Asp Leu
 145 150 155 160
 Leu Phe Glu Asp Leu Ala Leu Pro Asn Leu Arg Lys Asn Gln His Arg
 165 170 175
 Gln Leu Asn Glu Tyr Lys Thr His Arg Ala Gly Tyr Thr Ala Asn Gly
 180 185 190
 Val Pro Ala Asn Ile Ser Val Val Arg Ser Leu Gln Asn Ser Ser Leu Ala
 195 200 205
 Arg Arg Thr Ala Met Thr Ala Gly Lys Arg Arg Glu Leu Arg Glu Leu
 210 215 220
 Glu Thr Ser Leu Lys Val Val Glu Asn Thr Glu Pro Ala Gln Leu Leu
 225 230 235 240
 Glu Glu Glu Arg Leu Arg Lys Glu Ile Ala Glu Leu Arg Ala Lys Ile
 245 250 255
 Asp Arg Val Pro Phe Ile Asp Thr Phe Asp Leu Arg Tyr Lys Asn Tyr
 260 265 270
 Glu Lys Arg Pro Glu Pro Ser Ser Gln Ala Val Met Phe Cys Leu Met
 275 280 285
 Asp Val Ser Gly Ser Met Asp Gln Ala Thr Lys Asp Met Ala Lys Arg
 290 295 300
 Phe Tyr Ile Leu Leu Tyr Leu Phe Leu Ser Arg Thr Tyr Lys Asn Val
 305 310 315 320
 Glu Val Val Tyr Ile Arg His His Thr Gln Ala Lys Glu Val Asp Glu
 325 330 335
 His Glu Phe Phe Tyr Ser Gln Glu Thr Gly Thr Ile Val Ser Ser
 340 345 350
 Ala Leu Lys Leu Met Asp Glu Val Val Lys Glu Arg Tyr Asp Pro Ala
 355 360 365
 Gln Trp Asn Ile Tyr Ala Ala Gln Ala Ser Asp Gly Asp Asn Trp Ala
 370 375 380
 Asp Asp Ser Pro Leu Cys His Glu Ile Leu Ala Lys Lys Ile Leu Pro
 385 390 395 400

Val Val Arg Tyr Tyr Ser Tyr Ile Glu Ile Thr Arg Arg Ala His Gln
 405 410 415
 Thr Leu Trp Arg Glu Tyr Glu His Leu Gln Ala Met Phe Asp Asn Phe
 420 425 430
 Ala Met Gln His Ile Arg Asp Gln Asp Asp Ile Tyr Pro Val Phe Arg
 435 440 445
 Glu Leu Phe Gln Lys Gln Ser Ser Thr Thr Ser Asn
 450 455 460

<210> 7461

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 7461

Val Lys Thr Val Arg Ala Arg Ala His Asn Asn Gly Arg Asn Pro Asn
 1 5 10 15
 Trp Thr Ser Tyr Glu Lys Leu Arg Thr Val Ile Glu Lys Lys Met Phe
 20 25 30
 Ser Asn Thr Glu Glu Leu Leu Pro Val Ile Ser Phe Asn Ala Lys Thr
 35 40 45
 Ser Thr Asp Glu Gln Lys Lys His Asp Asp Phe Val Asp Arg Met Met
 50 55 60
 Glu Lys Gly Tyr Thr Arg Lys Gln Val Arg Leu Leu Cys Glu Trp Tyr
 65 70 75 80
 Leu Arg Val Arg Lys Ser Ser
 85

<210> 7462

<211> 1121

<212> PRT

<213> Enterobacter cloacae

<400> 7462

Arg Ser Val Cys Gly Ser Asn Glu Ser Val Asn Val Met Ala Asp Val
 1 5 10 15
 Ala Ser Leu Ala Val Gly Leu His Leu Asn Ala Ala Asn Phe Lys Ser
 20 25 30
 Gln Leu Met Gly Ala Tyr Gly Asp Ala Glu Asn Ser Ser Lys Arg Phe
 35 40 45
 Asn Arg Asn Ala Gln Glu Asp Ala Lys Arg Thr Asp Glu Ala Tyr Ser
 50 55 60
 Arg Met Gly Lys Thr Ile Ala Gly Val Ala Gly Arg Leu Ala Gly Phe
 65 70 75 80
 Ala Gly Ala Gly Leu Ser Leu Gly Ala Ile Thr Thr Thr Arg Glu
 85 90 95
 Tyr Gly Gln Ala Leu Ser Asp Leu Ser Ala Ile Thr Gly Ala Thr Gly
 100 105 110
 Ala Gln Leu Lys Ser Leu Asp Glu Ala Ala Gln Glu Met Gly Arg Ser
 115 120 125
 Thr Glu Tyr Ser Ala Ser Gln Ala Val Glu Ala Leu Lys Leu Met Ala
 130 135 140
 Ser Ala Lys Pro Glu Leu Leu Gln Thr Ala Asp Gly Leu Thr Glu Ala
 145 150 155 160
 Thr Lys Ser Ala Leu Thr Leu Ala Gln Ala Ala Gly Ser Thr Leu Pro
 165 170 175
 Asp Ala Thr Arg Thr Leu Ala Leu Ser Leu Asn Gln Phe Gly Ala Gly
 180 185 190
 Ala Gln Glu Ala Asp Arg Tyr Ile Asn Val Leu Ala Ala Gly Ala Lys
 195 200 205
 Phe Gly Ala Ser Glu Ile Ala Asp Thr Ala Ala Ala Ile Lys Asn Gly

210	215	220
Gly Val Ala Ala Ala	Gln Ala Gly Val Gly	Phe Glu Thr Leu Asn Ala
225	230	235
Ala Ile Gln Val Leu	Ala Glu Arg Glu Ile	Lys Gly Gly Glu Ala Gly
245	250	255
Thr Ala Leu Arg Asn	Val Ile Leu Ala Leu	Glu Lys Gly Thr Asp Lys
260	265	270
Thr Leu Lys Pro Ser	Val Val Gly Leu Ser	Gly Ala Leu Asp Asn Leu
275	280	285
Ser Lys Lys Asn Leu	Ser Thr Ala Gln Ala	Val Lys Leu Phe Gly Val
290	295	300
Glu Asn Ile Asn Ala	Ala Ser Val Leu Val	Asp Asn Arg Ser Lys Leu
305	310	315
Asn Ala Leu Thr Leu	Ala Leu Thr Gly Thr	Gln Thr Ala His Glu Gln
325	330	335
Ala Ala Ile Arg Val	Asn Asn Leu Asn	Gly Asp Ile Met Gly Leu Thr
340	345	350
Ser Ala Phe Glu Gly	Met Ile Ile Lys Ile	Gly Gln Ser Ser Thr Gly
355	360	365
Pro Leu Arg Ser Gly	Ile Gln Ser Val Thr	Asp Gly Ile Asn Leu Leu
370	375	380
Thr Asp Asn Phe Asn	Ala Val Ala Ser Val	Ala Leu Tyr Thr Leu Ile
385	390	395
Pro Val Leu Ser Thr	Lys Leu Thr Ala Gly	Leu Arg Glu Asn Ile Ser
405	410	415
Ala Trp Gln Gln Asn	Gln Ala Ala Val	Lys Ala Ala Ala Gln
420	425	430
Ala Asp Gly Ala Arg	Lys Thr Leu Glu Ala	Thr Ser Ala Thr Leu Lys
435	440	445
Arg Asn Asp Ala Glu	Phe Gly Tyr Tyr Arg	Gln Leu Glu Lys Thr Ala
450	455	460
Arg Gln His Gly Leu	Asn Val Asn Tyr Gln	Gly Glu Phe Asn Arg Leu
465	470	475
Ile Arg Glu Glu Thr	Gln Thr Asn Leu Ala	Thr Arg Ala Lys Met
485	490	495
Gln Leu Ala Ala Asn	Arg Gln Val Ser Leu	Thr Ala Arg Ala Ala
500	505	510
Ser Val Ala Val Gly	Leu Ala Arg Gly Ala	Leu Val Gly Gly
515	520	525
Pro Phe Gly Ala Ala	Met Leu Ala Gly Ser	Ala Leu Leu Tyr Phe His
530	535	540
Gln Gln Ala Lys Asp	Ala Arg Gln Ser Ala	Ile Asn Leu Lys Asp Ala
545	550	555
Val Ile Glu Thr Thr	Ala Ala Leu Met Gln	Met Ser Asp Lys Gln Leu
565	570	575
Ala Val Lys Gln Ile	Asp Leu Gln Asp Gln	Tyr Glu Asn Gln Val Thr
580	585	590
Gln Arg Asn Gln Leu	Ile Lys Glu Ile Gln	Asp Ala Asp Ser Arg Leu
595	600	605
Asp Ser Leu Gly Gly	Phe Asp Pro Phe Arg	Gln Lys Lys Gly Val Glu
610	615	620
Asp Ser Lys Lys Arg	Ala Glu Ala Asp Leu	Glu Ala Val Asn Lys Gly
625	630	635
Leu Glu Thr Thr Gln	Ser Asn Leu Glu Asn	Val Ser Lys Ala Arg Phe
645	650	655
Leu Val Gln Thr Gly	Ile Ala Asp Gln Ala	Lys Ser Leu Ala Asn Asp
660	665	670
Ile Lys Asn Ile Thr	Ala Gln Thr Ala Lys	Ala Gly Glu Gly Val Thr
675	680	685
Thr Pro Trp Thr Gly	Glu Asp Thr Gln Lys	Ala Arg Lys Glu Thr Val
690	695	700

Asn Gln Tyr Leu Gln Leu Arg Arg Glu Ile Glu Glu Ala His Ala Thr
 705 710 715 720
 Ser Leu Gly Lys Ile Asp Leu Gln Glu Lys Ala Ser Gln Glu Lys Leu
 725 730 735
 Ile Ala Ala Ala Arg Lys Asn Gly Ala Ser Gln Gln Asp Leu Gln Arg
 740 745 750
 Ala Leu Leu Met Asn Ala Glu Asn Tyr Gln Lys Gln Arg Asn Glu Leu
 755 760 765
 Ala Glu Gln Tyr Ser Pro Ala Arg Ser Ala Ile Asn Lys Glu Lys Glu
 770 775 780
 Ala Ser Gln Glu Leu Lys Ser Leu Leu Asp Ala Arg Leu Leu Thr Glu
 785 790 795 800
 Lys Glu Tyr Met Ala Ala Arg Val Thr Leu Ser Gln Glu Thr Ser Arg
 805 810 815
 Gln Ile Leu Gln Ala Gln Ala Asn Ala Leu Ser Ala Pro Arg Leu Glu
 820 825 830
 Leu Ala Gly Asp Val Asp Pro Leu Ala Gln Gln Arg Asn Gln Leu Ala
 835 840 845
 Gln Gln Gln Ser Leu Val Glu Thr Tyr Tyr Arg Asn Gly Ala Leu Ser
 850 855 860
 Lys Gln Gln Tyr Glu Met Leu Met Gln Lys Ser Ser Lys Asp Ser Ala
 865 870 875 880
 Asp Ala Gln Tyr Gln Thr Ala Leu Glu Leu Tyr Arg Ser Gln Ser Glu
 885 890 895
 Phe Asn Asn Leu Ala Ile Gly Leu Val Glu Ala Thr Arg Glu Arg Thr
 900 905 910
 Thr Asn Val Leu Thr Gly Leu Leu Thr Lys Thr Gln Thr Phe Lys Glu
 915 920 925
 Gly Val Ile Asn Leu Phe Ser Thr Leu Thr Gln Ser Ile Ile Gln Asn
 930 935 940
 Leu Val Asp Met Ala Ala Gln Ala Leu Val Thr Asn Thr Ile Leu Ser
 945 950 955 960
 Ser Ile Met Gly Val Gly Ser Ser Val Leu Gly Gly Val Gly Gly Ser
 965 970 975
 Thr Ala Gly Ser Ser Gly Thr Ala Ile Ala Asp Tyr Gly Ser Asn Phe
 980 985 990
 Gln Phe Asn Ala Lys Gly Gly Val Tyr Ser Ser Ser Asp Leu Ser Ala
 995 1000 1005
 Tyr Ser Gly Gln Val Val Asp Asn Pro Thr Phe Phe Ala Phe Ala Lys
 1010 1015 1020
 Gly Ala Gly Val Met Gly Glu Ala Gly Pro Glu Ala Ile Met Pro Leu
 1025 1030 1035 1040
 Thr Arg Ala Ala Asp Gly Ser Leu Gly Val Arg Ala Val Ser Gly Gly
 1045 1050 1055
 Ala Ser Glu Gly Ala Ala Pro Gln Val Phe Ile Thr Ile Asn Gly Asp
 1060 1065 1070
 Gly Ser Thr Ala Ser Gln Ser Ser Gly Gly Leu Glu Lys Phe Gly Lys
 1075 1080 1085
 Ser Val Gly Asn Phe Val Arg Asp Glu Tyr Arg Lys Leu Ile Gln Ala
 1090 1095 1100
 Asp Leu Arg Pro Gly Gly Ala Ile Trp Asn Ser Thr Asn Gly Arg Arg
 1105 1110 1115 1120

<210> 7463

<211> 1340

<212> PRT

<213> Enterobacter cloacae

<400> 7463

Pro Cys Ile Val Cys Val Trp Arg Gly Asp Lys Tyr Arg Arg Thr Gly
 1 5 10 15
 Leu Pro Gly Ser Ala Pro Leu Arg Pro Pro Ala Asn Arg Arg Gly Asn
 20 25 30
 Tyr Phe Arg Arg Asp Leu Cys Arg Arg Ser Ala Val Asp Asn Lys Pro
 35 40 45
 Phe Tyr Lys Pro Pro Ser Gly Gly Phe Phe Tyr Gly Arg Asp Met Ala
 50 55 60
 Asn Lys Ile Thr Gly Arg Lys Gly Gly Ser Ser Ser Ser Arg Thr Pro
 65 70 75 80
 Thr Glu Gln Pro Asp Asp Leu Gln Ser Val Ala Lys Ala Lys Ile Leu
 85 90 95
 Val Ala Leu Gly Glu Gly Glu Phe Ala Gly Gln Leu Thr Gly Lys Asp
 100 105 110
 Ile Tyr Leu Asp Gly Thr Ala Leu Glu Asn Ala Asp Gly Ser Gln Asn
 115 120 125
 Phe Ser Gly Val Thr Trp Glu Phe Arg Ser Gly Thr Gln Ala Gln Lys
 130 135 140
 Tyr Ile Gln Gly Ile Pro Gly Thr Glu Asn Glu Ile Ser Val Gly Thr
 145 150 155 160
 Glu Val Thr Ser Ala Thr Ala Trp Thr Arg Thr Phe Thr Asn Thr Gln
 165 170 175
 Leu Ser Ala Val Arg Leu Arg Leu Lys Trp Pro Ser Leu Phe Lys Gln
 180 185 190
 Glu Asp Asp Gly Asp Leu Val Gly Tyr Ser Val Asn Tyr Ala Ile Asp
 195 200 205
 Leu Gln Thr Asp Gly Gly Thr Trp Gln Thr Val Leu Asn Thr Ser Val
 210 215 220
 Thr Gly Lys Thr Thr Ser Gly Tyr Glu Arg Ser His Arg Ile Asp Leu
 225 230 235 240
 Pro Gln Ala Gly Ser Thr Trp Thr Ile Arg Leu Arg Lys Ile Thr Ala
 245 250 255
 Asp Ala Asn Ser Ala Lys Ile Gly Asp Thr Met Thr Leu Gln Ser Phe
 260 265 270
 Thr Glu Val Ile Asp Ala Lys Leu Arg Tyr Pro Asn Thr Ala Leu Leu
 275 280 285
 Tyr Ile Glu Phe Asp Ser Ser Gln Phe Asn Gly Ser Ile Pro Gln Ile
 290 295 300
 Ser Cys Glu Pro Arg Gly Arg Val Ile Arg Val Pro Asp Thr Tyr Asp
 305 310 315 320
 Pro Glu Thr Arg Ser Tyr Ser Gly Thr Trp Thr Gly Ala Phe Lys Trp
 325 330 335
 Ala Trp Thr Asp Asn Pro Ala Trp Ile Phe Tyr Asp Leu Val Val Ser
 340 345 350
 Asp Arg Phe Gly Leu Gly His Arg Leu Thr Ala Ala Asn Ile Asp Lys
 355 360 365
 Trp Thr Leu Tyr Gln Val Ala Gln Tyr Cys Asp Gln Met Val Pro Asp
 370 375 380
 Gly Lys Gly Gly Asp Gly Thr Glu Pro Arg Tyr Thr Cys Asn Val Tyr
 385 390 395 400
 Ile Gln Asp Arg Asn Asp Ala Tyr Thr Val Leu Arg Asp Phe Ala Ala
 405 410 415
 Ile Phe Arg Gly Met Thr Tyr Trp Gly Gly Asp Gln Ile Val Ala Leu
 420 425 430
 Ala Asp Met Pro Arg Asp Val Asp Tyr Ser Tyr Thr Arg Ala Asn Val
 435 440 445
 Val Gly Gly Arg Phe Thr Tyr Ser Ser Ser Thr Thr Lys Thr Arg Tyr
 450 455 460
 Thr Thr Ala Leu Val Ser Trp Ser Asp Pro Gly Asn Ala Tyr Ala Asp
 465 470 475 480
 Ala Met Glu Pro Val Phe Glu Gln Ala Leu Val Ala Arg Tyr Gly Phe

485										490										495									
Asn	Gln	Leu	Glu	Met	Thr	Ala	Ile	Gly	Cys	Thr	Arg	Gln	Ser	Glu	Ala														
500										505										510									
Asn	Arg	Lys	Gly	Arg	Trp	Gly	Ile	Leu	Thr	Asn	Asn	Lys	Asp	Arg	Val														
515										520										525									
Val	Ser	Phe	Asp	Val	Gly	Leu	Asp	Gly	Asn	Ile	Pro	Gln	Pro	Gly	Tyr														
530										535										540									
Ile	Ile	Ala	Val	Ala	Asp	Glu	Leu	Leu	Ser	Gly	Lys	Val	Met	Gly	Gly														
545										550										555									
Arg	Ile	Ser	Ala	Val	Asn	Gly	Arg	Val	Ile	Lys	Leu	Asp	Arg	Val	Ala														
560										565										570									
Asp	Ala	Ala	Ala	Gly	Asp	Arg	Leu	Ile	Leu	Asn	Leu	Pro	Ser	Gly	Ala														
580										585										590									
Ser	Gln	Ser	Arg	Thr	Ile	Gln	Ala	Val	Asn	Gly	Glu	Ser	Val	Thr	Val														
595										600										605									
Thr	Thr	Ala	Tyr	Ser	Glu	Thr	Pro	Gln	Ala	Glu	Ala	Val	Trp	Val	Val														
610										615										620									
Glu	Ser	Asn	Glu	Leu	Tyr	Ala	Gln	Gln	Tyr																				

Thr Asp Val Thr Arg Leu Glu Ala Lys Thr Ala Gln Asn Glu Ala Gly
 980 985 990
 Val Thr Glu Val Arg Gln Ala Leu Ser Asp Glu Ala Gln Ala Arg Ala
 995 1000 1005
 Thr Ala Val Asp Gln Leu Thr Ala Ser Thr Gln Val Ile Ser Asp Lys
 1010 1015 1020
 Ala Asp Ser Ala Ser Ser Lys Ala Asp Ala Ala Ser Gly Lys Ala Asp
 1025 1030 1035 1040
 Ala Ala Glu Gln Ala Ser Ser Gln Asn Thr Ala Asp Ile Thr Thr Leu
 1045 1050 1055
 Arg Gln Val Val Thr Asp Thr Thr Ser Ser Met Ala Ser Arg Leu Glu
 1060 1065 1070
 Glu Leu Gly Ala Arg Thr Asp Thr Ala Ser Gly Gly Ile Gln Asn Asn
 1075 1080 1085
 Ala Ile Ala Leu Ile Thr Ser Thr Leu Ala Gln Val Asp Gln Arg Val
 1090 1095 1100
 Arg Leu Ser Ala Gln Tyr Gly Asp Ser Lys Ala Ser Ile Asp Arg Ile
 1105 1110 1115 1120
 Asp Asn Val Met Ala Ser Asp Arg Glu Ala Thr Ala Arg Ser Leu Leu
 1125 1130 1135
 Ser Leu Gln Thr Asp Val Asn Gly Asn Lys Ala Ser Ile Asn Ser Leu
 1140 1145 1150
 Asn Gln Thr Phe Ser Asp Tyr Gln Gln Ala Thr Ala Thr Gln Ile Asn
 1155 1160 1165
 Gly Ile Thr Ala Thr Ile Asn Gly His Thr Ser Ala Ile Thr Thr Asn
 1170 1175 1180
 Ala Gln Ala Ile Ala Asn Val Asn Gly Asp Leu Lys Ala Met Tyr Ser
 1185 1190 1195 1200
 Ile Lys Val Gly Leu Ala Ser Asn Gly Gln Tyr Tyr Ala Ala Gly Met
 1205 1210 1215
 Gly Ile Gly Val Glu Asn Thr Pro Ser Gly Met Gln Ser Gln Val Ile
 1220 1225 1230
 Phe Val Ala Asp Arg Phe Ala Val Thr His Gln Ala Gly Ala Thr Val
 1235 1240 1245
 Thr Leu Pro Phe Val Ile Gln Asn Gly Gln Val Phe Ile Arg Asp Ala
 1250 1255 1260
 Leu Ile Gly Asp Gly Thr Ile Asn Asn Asn Lys Ile Gly Lys Tyr Ile
 1265 1270 1275 1280
 Gln Ser Asn Asn Phe Val Ala Gly Ser Val Gly Trp Arg Leu Asp Lys
 1285 1290 1295
 Gly Gly Thr Phe Glu Asn Tyr Gly Ser Thr Ala Gly Glu Gly Ala Met
 1300 1305 1310
 Lys Gln Thr Asn Gln Thr Ile Ser Val Lys Asp Ala Asn Asn Val Leu
 1315 1320 1325
 Arg Val Gln Ile Gly Arg Ile Thr Gly Thr Trp
 1330 1335 1340

<210> 7464

<211> 254

<212> PRT

<213> *Enterobacter cloacae*

<400> 7464

Thr Met Ser Leu Asn Ala Asp Tyr Gln Lys Leu Glu Ser Gly Asn Asp
 1 5 10 15
 Val Arg Leu Ile Glu Val Asp Gly Ser Ser Phe Gly Leu Thr Glu Val
 20 25 30
 Leu Arg Phe His Asn Tyr Asn Ile Pro His Thr Glu Glu Glu Ile Val
 35 40 45
 Ala Ala Gly Gly Asp Glu Ala Lys Leu Pro Ala Lys Pro Ile Trp Trp
 50 55 60

Gln Gly Asn Glu Tyr Ser Ala Trp Pro Tyr Gln Leu Glu Gly Leu Glu
 65 70 75 80
 Lys Ser Thr Ser Gly Ser Asn Ala Thr Pro Ser Leu Thr Val Ala Asn
 85 90 95
 Ile Glu Ser Ser Ile Ser Ala Leu Cys Leu Ala Tyr Asp Asp Leu Leu
 100 105 110
 Gln Ala Lys Val Thr Ile His Asp Thr Lys Ala Lys Tyr Leu Asp Ala
 115 120 125
 Lys Asn Phe Ala Gly Gly Asn Pro Thr Ala Asp Pro Thr Gln Glu Lys
 130 135 140
 Leu Gln Val Trp Tyr Ile Asp Gly Lys Thr Thr Glu Leu Ala Gly Glu
 145 150 155 160
 Thr Ile Glu Phe Val Leu Ser Ser Pro Met Asp Leu Gln Gly Gln Met
 165 170 175
 Ile Pro Thr Arg Gln Leu His Ser Leu Cys Thr Trp Cys Ile Arg Asn
 180 185 190
 Lys Tyr Arg Thr Gly Asp Gly Cys Asp Tyr Ala Gly Thr Arg Tyr Phe
 195 200 205
 Asp Lys Asn Asn Asn Pro Val Ser Asp Pro Ser Leu Asp Glu Cys Asn
 210 215 220
 Gly Thr Leu Thr Ala Cys Lys Leu Arg Phe Gly Glu Ser Asn Glu Leu
 225 230 235 240
 Ser Phe Gly Gly Phe Pro Gly Thr Ser Leu Ile Arg Ser
 245 250

<210> 7465

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7465

Lys Val Glu Gly Thr Met Gln Glu Val Met Thr Arg Ile Glu Leu Gly
 1 5 10 15
 Gly Glu Pro Gly Lys Ile Phe Gly Lys Ile His His Arg Leu Ile Asn
 20 25 30
 Lys Val Ser Glu Ala Gly Thr Ala Leu Ala Lys Thr Ile Pro Gly Phe
 35 40 45
 Glu Ser Tyr Met Ile Ser Ser Lys Ser Arg Gly Leu Thr Phe Ala Ile
 50 55 60
 Phe Lys Gly Lys Lys Asn Ile Gly Val Asp Asp Leu Gly Phe Pro Val
 65 70 75 80
 Thr Gly Glu Val Ile Arg Ile Val Pro Val Ile Ile Gly Ser Lys Lys
 85 90 95
 Asp Gly Leu Leu Gln Thr Ile Leu Gly Ala Val Ile Ile Ala Ser
 100 105 110
 Ala Ile Gly Ser Tyr Phe Ala Pro Gly Asn Pro Ile Ser Ala Phe Gly
 115 120 125
 Tyr Lys Phe Gly Ala Ala Met Met Leu Gly Gly Val Val Gln Met Leu
 130 135 140
 Ser Pro Gln Pro Thr Gly Leu Ala Ser Lys Gln Ser Ala Asp Asn Arg
 145 150 155 160
 Ala Ser Tyr Ala Phe Gly Gly Val Thr Asn Thr Ala Ala Gln Gly Tyr
 165 170 175
 Pro Val Pro Leu Leu Tyr Gly Arg Arg Ile Gly Gly Ala Ile Ile
 180 185 190
 Ser Ala Gly Ile Tyr Val Glu Asp Gln Gln
 195 200

<210> 7466

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 7466

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Met Ala Glu Tyr Gly Val Leu Leu Thr Thr Thr Ser Gly Glu Val Trp
1      5      10      15
Val Thr Ala Asn Ser Ser Pro Ile Ala Leu Gln Ala Arg Lys Thr Ala
      20      25      30
Ala Leu Gln Gly Thr Ser Gly Phe Asn Thr Lys Val Thr His Thr Phe
      35      40      45
Pro Ala Gly Gln Pro Val Val Ala Phe Val His Cys Thr Val Glu Val
      50      55      60
Glu Ile Thr Gln Thr Ile Ser Gly Asn Thr Ile Thr Ile Asp Phe Leu
65      70      75      80
Arg Pro Asn Ala Thr Gly Thr Ala Tyr Val Tyr Phe Phe Ser Ile Phe
      85      90      95
Pro Gln Thr Lys Pro Asp Tyr Gly Leu Ala Val Trp Asp Ala Ser Gly
      100     105     110
Thr Leu Ile Leu Thr Asn Glu Thr Arg Thr Leu Ser Asp Val Val Thr
      115     120     125
Leu Gly Thr Ala Gly Val Asp Ala Ser Ser Gly Tyr Asn Ile Asn Thr
130     135     140
Thr Leu Val Gly Lys Trp Ala Cys Met Pro Ala Met Leu Gly Leu Ile
145     150     155     160
Thr Gly Val Ile Ser Ala Gly Gly Gln Pro Gln Pro Tyr Ser Ala Ile
      165     170     175
Tyr Lys Ser Met Ala Lys Leu Glu Gly Ser Asn Thr Arg Ile Phe Ala
      180     185     190
Arg Pro Gln Thr Thr Pro Gly Gly Asn Leu Gln Asn Val Thr Tyr Ser
      195     200     205
Asn Leu Arg Asn Val Ile Met Ala Ile Asn Cys Ala Asn Tyr Asp
      210     215     220

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<210> 7467

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 7467

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Pro Val Leu Asp Ser Glu Lys His Gly Glu Cys Pro Leu Met Gly Phe
1      5      10      15
Ala Ser Pro Ala Thr Asp Tyr Val Glu Arg Gln Leu Ser Pro Ser Val
      20      25      30
Leu Cys Asn Ile Gly Ala Glu Ser Arg Val Leu Glu Thr Asp Val Gly
      35      40      45
Phe Ala Val Ile Glu Pro Ala Thr Lys Lys Arg Pro Gly Asp Val Leu
      50      55      60
Leu Ile Leu Cys Asp Gly His Thr Gln Phe Ala Lys Leu Met Gly Lys
65      70      75      80
Ser Leu Ile Thr Asp Asp Gly Glu Ala Ile Glu Gly Thr Ala Leu Glu
      85      90      95
Glu Val Glu Val Leu Gly Arg Val Thr Phe Phe Ile Asn Arg Ala Leu
      100     105     110
Asp Asp Asp Cys Pro Ala Ile
      115     120

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<210> 7468

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 7468

Lys Glu Gly Gln Lys Ser Gly Arg Leu Ser Glu Glu Thr Lys Ala Ala
 1 5 10 15
 Val Asp Lys Met Ala Ser Glu Phe Asn Ala Leu Arg Glu Ala Glu Lys
 20 25 30
 Thr Leu Lys Ala Ala Met Gly Glu Leu Glu Gln His Val Ala Gln Met
 35 40 45
 Pro Leu Ala Asn Ala Lys Gln Val Ile Glu Ser Val Gly His Gln Val
 50 55 60
 Ile Ser Ala Glu Ala Leu Lys Thr Phe Ala Ser Ser Val Glu Gly Gly
 65 70 75 80
 Lys Arg Ile Ser Ile Pro Val Lys Ala Ala Leu Thr Ser Val Asp Val
 85 90 95
 Pro Asp Gly Val Val Glu Pro Gln Arg Leu Pro Gly Ile Asp Thr Ala
 100 105 110
 Pro Lys Gln Arg Leu Phe Ile Arg Asp Leu Ile Ala Pro Gly Arg Thr
 115 120 125
 Ser Ser Ser Ala Ile Phe Trp Val Gln Gln Thr Gly Phe Thr Asn Asn
 130 135 140
 Ala Lys Val Val Pro Glu Asn Thr Gln Lys Pro Tyr Ser Glu Ile Glu
 145 150 155 160
 Phe Thr Pro Lys Ile Thr Gly Val Ser Thr Ile Ala His Leu Phe Lys
 165 170 175
 Ala Ser Lys Gln Ile Leu Asp Asp Phe Ala Gln Leu Gln Ser Thr Val
 180 185 190
 Asp Ala Glu Met Arg Tyr Gly Leu Lys Tyr Ala Glu Glu Gln Glu Ile
 195 200 205
 Leu Phe Gly Asp Gly Thr Gly Val His Leu His Gly Ile Val Pro Gln
 210 215 220
 Ala Ser Ala Phe Asn Pro Ala Phe Thr Val Glu Gln Gln Ser Gly Ile
 225 230 235 240
 Asp Asp Leu Arg Leu Ala Met Leu Gln Ala Gln Leu Ala Arg Phe Pro
 245 250 255
 Ala Ser Gly His Val Leu His Phe Ile Asp Trp Ala Arg Ile Glu Leu
 260 265 270
 Thr Lys Asp Ser Leu Gly Arg Tyr Ile Leu Ala Asn Pro Ala Ala Leu
 275 280 285
 Thr Gly Pro Thr Leu Trp Gly Leu Pro Val Val Ala Thr Glu Ala Ala
 290 295 300
 Ala Phe Gln Gly Lys Phe Leu Thr Gly Ala Phe Asn Ala Gly Ala Gln
 305 310 315 320
 Ile Phe Asp Arg Glu Asp Ala Asn Val Val Ile Ser Thr Glu Asn Ala
 325 330 335
 Asp Asp Phe Glu Lys Asn Met Ile Thr Ile Arg Cys Glu Glu Arg Leu
 340 345 350
 Ala Leu Ala Val Lys Arg Pro Glu Ala Phe Val Tyr Gly Ser Phe Ser
 355 360 365
 Thr Gly Ala Gly Ser
 370

<210> 7469

<211> 129

<212> PRT

<213> *Enterobacter cloacae*

<400> 7469

Ser Ser Ser Arg Arg Gly Asn Leu Glu Gln Tyr Lys Arg Glu Ala Val
 1 5 10 15
 Met Ala Leu Glu Thr Phe Asn Trp Ser Pro Arg Val Asn Pro Ser Gln
 20 25 30
 Asp Val Thr Met Arg Thr Arg Glu Ala Gln Phe Gly Asp Gly Tyr Thr
 35 40 45

Gln Thr Ser Gly Asp Gly Leu Asn Pro Arg Ser Gln Ser Trp Asp Leu
 50 55 60
 Thr Phe Val Gly Leu Glu Pro Tyr Ile Lys Ser Ile Lys Asp Phe Leu
 65 70 75
 Asp Arg His Glu Gly Thr Lys Ala Phe Ala Trp Lys Pro Pro Leu Glu
 85 90 95
 Asp Leu Gly Leu Tyr Arg Cys Lys Gln Tyr Lys Pro Ser Pro Met Gly
 100 105 110
 Gly Gly Asn Trp Ser Leu Thr Ala Thr Phe Ile Gln Ala Phe Lys Pro
 115 120 125

<210> 7470

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 7470

Ser Gly Ala Asp Met Arg Gln Lys Thr Ile Asp Ala Ile Met Ala His
 1 5 10 15
 Ala Ala Ala Glu Tyr Pro Arg Glu Cys Cys Gly Val Val Ala Gln Lys
 20 25 30
 Ser Arg Val Glu Arg Tyr Phe Pro Cys Arg Asn Leu Ala Ala Thr Pro
 35 40 45
 Glu Asp Asn Phe Val Leu Cys Pro Glu Asp Tyr Ala Ala Ala Glu Asp
 50 55 60
 Trp Gly Thr Val Ile Ala Ile Val His Ser His Pro Asp Ala Thr Thr
 65 70 75 80
 Gln Pro Ser Glu Leu Asp Lys Ala Gln Cys Asp Ala Thr Leu Leu Pro
 85 90 95
 Trp His Ile Val Ser Trp Pro Glu Gly Asp Leu Arg Thr Ile Gln Pro
 100 105 110
 Arg Gly Glu Leu Pro Leu Leu Glu Arg Pro Phe Val Leu Gly His Phe
 115 120 125
 Asp Cys Trp Gly Leu Val Met Ser Tyr Phe Arg Gln Thr His Gly Ile
 130 135 140
 Glu Leu His Asp Tyr Arg Val Asp Tyr Pro Trp Trp Glu Lys Asp Tyr
 145 150 155 160
 Pro Asp Asn Phe Tyr Gln Asp Cys Trp Tyr Glu Cys Gly Phe Arg Glu
 165 170 175
 Phe Asp Gly Pro Pro Lys Pro Gly Asp Met Val Ile Met Gln Val Gln
 180 185 190
 Ala Asp Lys Trp Asn His Ala Gly Ile Leu Leu Glu Gly Asn Met Leu
 195 200 205
 Leu His His Leu Tyr Gly His Leu Ser Gln Arg Val Pro Tyr Gly Gly
 210 215 220
 Tyr Trp Gln Glu Arg Thr Met Lys Ile Leu Arg Tyr Lys Ser Leu Cys
 225 230 235 240

<210> 7471

<211> 466

<212> PRT

<213> Enterobacter cloacae

<400> 7471

Pro Ala Val Ser Leu Arg Met Gly Gly Ala Val Cys Arg His Arg His
 1 5 10 15
 Arg His Gln His Leu Asn Val Phe Ile Ser Leu Arg Asn Ala Ser Arg

	20		25		30
Lys	Asn	Gly	His	Gln	Ser
	35				
Glu	Glu	Lys	Gly	Met	Arg
	50				
Thr	Leu	Ser	Val	Thr	Phe
65					
Tyr	Gln	Leu	Glu	Gln	Val
Pro	Leu	Ala	Asn	Asn	Gly
Trp	Pro	Glu	Trp	Asp	Val
Val	Leu	Glu	Val	Tyr	Met
Gln	Gly	Met	Val	Lys	Thr
145					
Ala	Tyr	Ala	Asn	Ser	Leu
Ile	Thr	Gly	Ala	Phe	Pro
Lys	Met	Gly	Thr	Met	Asp
Ser	Pro	Glu	Phe	Arg	Glu
Gln	Lys	Met	Gln	Leu	Asp
225					
Asn	Tyr	Ser	Asp	Ser	Pro
Thr	Glu	Ala	Lys	Asp	Thr
Val	Ser	Gly	Pro	Leu	Lys
Leu	Gln	Tyr	Tyr	Glu	Gly
Ile	Lys	Thr	Asp	Gln	Gln
305					
Tyr	Gln	Asp	Ser	Leu	Phe
Lys	Pro	Leu	Val	Lys	Tyr
Lys	Ala	Pro	Lys	Ile	Thr
Ser	Leu	Leu	Thr	Ala	Leu
Gln	Glu	Arg	Thr	Pro	Ile
385					
Asp	Lys	Asn	Thr	Asn	Gln
Ser	Ser	Asp	Gln	Leu	Arg
Ala	Gln	Arg	Val	Thr	Leu
Gly	Phe	Cys	Pro	Val	Asp

Lys
 465

<210> 7472

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 7472

Cys Phe Thr Leu Trp Arg Leu Glu Met Ala Asn His Arg Gly Gly Ser
 1 5 10 15
 Gly Asn Phe Ala Glu Asp Arg Glu Arg Ala Ser Glu Ala Gly Arg Lys
 20 25 30
 Gly Gly Gln Ser Ser Gly Gly Asn Phe Lys Asn Asp Pro Gln Arg Ala
 35 40 45
 Ser Glu Ala Gly Lys Lys Gly Gly Lys Asn Ser His Gly Ser Asn Lys
 50 55 60

65

<210> 7473

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 7473

Ala Gln Asp Arg Lys Trp Arg Ala Lys Met Thr Gln Gly Ala Val Lys
 1 5 10 15
 Thr Pro Gly Lys Arg Ser Gln Ala Val Ser Ala Lys Lys Gln Ala Ile
 20 25 30
 Leu Ser Ala Ala Leu Glu Thr Phe Ser Gln Phe Gly Ile His Gly Thr
 35 40 45
 Arg Leu Glu Gln Val Ala Glu Gln Ala Gly Val Ser Lys Thr Asn Leu
 50 55 60
 Leu Tyr Tyr Tyr Pro Ser Lys Glu Ala Leu Tyr Val Ala Val Met Gln
 65 70 75 80
 Gln Ile Leu Asp Ile Trp Leu Ala Pro Leu Lys Ala Phe Arg Glu Glu
 85 90 95
 Leu Ala Pro Leu Val Ala Ile Glu Glu Tyr Ile Arg Leu Lys Leu Glu
 100 105 110
 Val Ser Arg Asp Tyr Pro Gln Ala Ser Arg Leu Phe Cys Leu Glu Met
 115 120 125
 Leu Gln Gly Ala Pro Leu Leu Gln Ala Glu Leu Thr Gly Asp Leu Lys
 130 135 140
 Gln Leu Val Asp Asp Lys Ser Ala Ile Ile Ala Gly Trp Val Ala Ser
 145 150 155 160
 Gly Lys Leu Ala Pro Val Asp Pro His Gln Leu Ile Phe Met Ile Trp
 165 170 175
 Ala Ser Thr Gln His Tyr Ala Asp Phe Ala Ala Gln Val Glu Ala Val
 180 185 190
 Thr Gly Lys Thr Leu Gln Asp Glu Ala Phe Phe Gln Ser Thr Leu Glu
 195 200 205
 Asn Val Gln Arg Met Ile Ile Glu Gly Ile Arg Val Arg
 210 215 220

<210> 7474

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 7474

Met Trp Phe Ser Met Leu Ala Leu Ala Ser Ala Ser Ile Thr Gly Pro
 1 5 10 15
 Met Ser Val Val Arg Arg Pro Gly Leu Pro Met Arg His Ser Ala Ile
 20 25 30
 Ala Pro Arg Ser Ile Phe Ser Val Trp Ser Ala Thr Ser Ser Cys Lys
 35 40 45

His Ser Thr Arg Arg Ala Glu Gln Arg Trp Pro Ala Leu Ser Lys Ala
 50 55 60
 Glu Ala Ser Thr Ser Thr Thr Thr Cys Ser Val Ser Ala Glu Glu Ser
 65 70 75 80
 Thr Ile Met Ala Phe Met Pro Pro Val Ser Ala Ile Ser Gly Val Gly
 85 90 95
 Arg Pro Cys Ala Ser Arg Arg Val Ala Met Leu Arg Cys Ser Arg Glu
 100 105 110
 Ala Thr Ser Val Glu Pro Val Asn Ile Thr Pro Arg Thr Arg Leu Ser
 115 120 125
 Glu Val Ser Leu Ala Pro Thr Val Ser Pro Arg Pro Gly Ser Ser Cys
 130 135 140
 Thr Thr Pro Ala Gly Thr Pro Ala Ser Ser Arg Met Leu Met Pro Trp
 145 150 155 160
 Ala Ala Ile Ser Gly Val Cys Ser Ala Gly Phe Ala Ser Thr Leu Leu
 165 170 175
 Pro Ala Ala Arg Ala Ala Ala Ile Trp Pro Val Lys Ile Ala Ser Gly
 180 185 190
 Lys Phe His Gly Leu Ile His Thr Thr Gly Pro Ser Gly Arg Trp Val
 195 200 205
 Ser Leu Ser Lys Ser Ser Arg Thr
 210 215

<210> 7475

<211> 178

<212> PRT

<213> Enterobacter cloacae

<400> 7475

Met Glu Asn Ser Phe Val Thr Gly Glu Ser Lys Met Ala Trp Leu Asp
 1 5 10 15
 Thr Leu Leu Asp His Phe Ala His Tyr Pro Thr His Leu Phe Ala Leu
 20 25 30
 Leu Val Val Met Ala Leu Ser Lys Ser Thr Val Leu Val Ser Ser Val
 35 40 45
 Leu Pro Pro Ala Ser Val Met Leu Met Ala Gly Ile Ala Val Ser Gln
 50 55 60
 Ser Ser Leu His Pro Gly Met Thr Trp Leu Ala Val Val Met Gly Ala
 65 70 75 80
 Thr Ala Gly Ser Val Leu Asn Tyr His Ile Gly Gln Leu Met Gly His
 85 90 95
 Thr Arg Leu Val Ser Arg Leu Thr Ala Lys His Ala Asp Lys Ile Leu
 100 105 110
 Arg Val Gln His Gln Leu Gln Lys Asn Gly Val Val Ala Leu Phe Thr
 115 120 125
 Ser Arg Phe Leu Ala Val Leu Arg Tyr Ile Val Pro Leu Ala Ala Gly
 130 135 140
 Met Leu Arg Met Ser Ala Met Lys Val Tyr Val Val Ser Leu Leu Ser
 145 150 155 160
 Ala Cys Ala Trp Ala Ala Leu Tyr Val Gly Ile Val Thr Gly Ile Ser
 165 170 175
 Ile

<210> 7476

<211> 503

<212> PRT

<213> Enterobacter cloacae

<400> 7476

Met Ala Ile Ser Thr Pro Met Leu Val Thr Phe Leu Val Tyr Ile Phe

1 5 10 15
 Gly Met Ile Leu Ile Gly Phe Leu Ala Trp Arg Ser Thr Lys Asn Phe
 20 25 30
 Asp Asp Tyr Ile Leu Gly Gly Arg Ser Leu Gly Pro Met Val Thr Ala
 35 40 45
 Leu Ser Ala Gly Ala Ser Asp Met Ser Gly Trp Leu Leu Met Gly Leu
 50 55 60
 Pro Gly Ala Ile Phe Ile Ser Gly Ile Ser Glu Ser Trp Ile Ala Ile
 65 70 75 80
 Gly Leu Thr Val Gly Ala Trp Ile Asn Trp Lys Leu Val Ala Gly Arg
 85 90 95
 Leu Arg Val His Thr Glu Ala Asn Asn Asn Ala Leu Thr Leu Pro Asp
 100 105 110
 Tyr Phe Thr Gly Arg Phe Glu Asp Asn Ser Arg Ile Leu Arg Ile Ile
 115 120 125
 Ser Ala Val Val Ile Leu Leu Phe Phe Thr Ile Tyr Cys Ala Ser Gly
 130 135 140
 Ile Val Ala Gly Ala Arg Leu Phe Glu Ser Thr Phe Gly Met Ser Tyr
 145 150 155 160
 Glu Thr Ala Leu Trp Ala Gly Ala Ala Ala Thr Ile Leu Tyr Thr Phe
 165 170 175
 Val Gly Gly Phe Leu Ala Val Ser Trp Thr Asp Thr Val Gln Ala Ser
 180 185 190
 Leu Met Ile Phe Ala Leu Ile Leu Thr Pro Val Ile Val Ile Phe Thr
 195 200 205
 Val Gly Gly Phe Gly Glu Ser Leu Glu Val Ile Lys Gln Lys Ser Ile
 210 215 220
 Glu Asn Val Asp Met Leu Lys Gly Leu Asn Phe Val Ala Ile Val Ser
 225 230 235 240
 Leu Met Gly Trp Gly Leu Gly Tyr Phe Gly Gln Pro His Ile Leu Ala
 245 250 255
 Arg Phe Met Ala Ala Asp Ser His His Thr Ile Val His Ala Arg Arg
 260 265 270
 Ile Ser Met Thr Trp Met Ile Leu Cys Leu Ala Gly Ala Cys Ala Val
 275 280 285
 Gly Phe Phe Gly Ile Ala Tyr Phe Asn Asn Asn Pro Ala Gln Ala Gly
 290 295 300
 Ala Val Asn Gln Asn Ala Glu Arg Val Phe Ile Glu Leu Ala Gln Ile
 305 310 315 320
 Leu Phe Asn Pro Trp Ile Ala Gly Ile Leu Leu Ser Ala Ile Leu Ala
 325 330 335
 Ala Val Met Ser Thr Leu Ser Cys Gln Leu Leu Val Cys Ser Ser Ala
 340 345 350
 Ile Thr Glu Asp Leu Tyr Lys Ala Phe Leu Arg Lys Gly Ala Ser Gln
 355 360 365
 Lys Glu Leu Val Trp Val Gly Arg Phe Met Val Leu Leu Val Ala Leu
 370 375 380
 Val Ala Ile Ala Leu Ala Ala Asn Pro Glu Asn Arg Val Leu Gly Leu
 385 390 395 400
 Val Ser Tyr Ala Trp Ala Gly Phe Gly Ala Ala Phe Gly Pro Val Val
 405 410 415
 Leu Phe Ser Val Met Trp Ser Arg Met Thr Arg Asn Gly Ala Leu Ala
 420 425 430
 Gly Met Ile Ile Gly Ala Val Thr Val Ile Val Trp Lys Gln Phe Ala
 435 440 445
 Trp Leu Gly Leu Tyr Glu Ile Ile Pro Gly Phe Ile Phe Gly Ser Ile
 450 455 460
 Gly Ile Val Val Phe Ser Leu Leu Gly Lys Ala Pro Ser Ala Ser Met
 465 470 475 480
 Gln Lys Arg Phe Ala Glu Ala Asp Ala His Tyr His Thr Ala Pro Pro
 485 490 495

Thr Lys Leu Gln Ala Glu
500

<210> 7477
<211> 325
<212> PRT
<213> *Enterobacter cloacae*

<400> 7477

Thr Val Ile Lys Gly Ile Ala His Tyr Arg Ile Asp Ser Ser Cys Trp
1 5 10 15
Cys Pro Met Ser Val Ser Arg Phe Thr Leu Ser Ile Lys Pro Gln Glu
20 25 30
Ala Ile Leu Ile Leu Ile Thr Met Phe Trp Gly Gly Thr Phe Leu Ala
35 40 45
Val Gln Tyr Ala Val Thr Met Ser Asp Pro Phe Phe Phe Val Gly Leu
50 55 60
Arg Phe Ala Thr Ala Ala Val Ala Val Ala Leu Ile Ser Leu Lys Thr
65 70 75 80
Leu Arg Gly Leu Thr Thr Arg Glu Leu Lys Ala Gly Val Ala Ile Gly
85 90 95
Val Ala Ile Ala Met Gly Tyr Ser Leu Gln Thr Trp Gly Leu Gln Ser
100 105 110
Ile Ser Ser Ser Lys Ser Ala Phe Ile Thr Ala Met Tyr Val Pro Leu
115 120 125
Val Pro Leu Leu Gln Trp Leu Cys Leu Gly Arg Met Pro Gly Leu Met
130 135 140
Ser Cys Ile Gly Ile Val Leu Ala Phe Ile Gly Leu Ile Leu Leu Ala
145 150 155 160
Gly Pro Glu Asn Asn Leu Leu Ala Leu Gly Pro Gly Glu Ile Ile Thr
165 170 175
Leu Val Gly Ala Val Ala Ile Ala Ala Glu Ile Ile Leu Ile Ser Ala
180 185 190
Trp Ala Gly Lys Val Asp Val Lys Arg Val Thr Val Val Gln Leu Ala
195 200 205
Thr Ala Ser Leu Val Ala Phe Ala Thr Met Val Pro Ala Gly Glu Ser
210 215 220
Val Pro Pro Met Ser Thr Gly Leu Ile Val Val Ala Leu Gly Leu Gly
225 230 235 240
Ile Phe Ser Ala Ile Ile Gln Val Thr Met Asn Trp Ala Gln Arg Ser
245 250 255
Val Ser Pro Thr Arg Ala Thr Val Ile Tyr Thr Gly Glu Pro Val Trp
260 265 270
Ala Gly Ile Phe Gly Arg Leu Ala Gly Glu Arg Leu Pro Leu Leu Ala
275 280 285
Leu Val Gly Ala Ala Phe Ile Ile Ala Gly Val Leu Val Ser Glu Leu
290 295 300
Lys Leu Lys Lys Arg Arg Lys Ala Thr Ala Gly Leu Ser Ala Glu Gln
305 310 315 320
Arg Ala Asp Ser
325

<210> 7478
<211> 364
<212> PRT
<213> *Enterobacter cloacae*

<400> 7478

Asp Val Leu Gln Leu Ile Val Ile Glu Ile Ala Leu Ala Phe Phe
1 5 10 15
Leu His Ala Glu Ser Gly Leu Phe Ile Ile Lys Tyr Val Ser Gly Phe

20 25 30
 Phe Glu Ser Leu Leu Lys Phe Ala Ala Glu Gly Thr Asn Phe Val Phe
 35 40 45
 Gly Gly Met Gly Glu Lys Gly Leu Ala Phe Ile Phe Leu Gly Val Leu
 50 55 60
 Cys Pro Ile Ile Phe Ile Ser Ala Leu Ile Gly Ile Leu Gln His Trp
 65 70 75 80
 Arg Ile Leu Pro Ile Phe Ile Arg Val Ile Gly Thr Leu Leu Ser Lys
 85 90 95
 Leu Asn Gly Met Gly Lys Leu Glu Ser Phe Asn Ala Val Ser Ser Leu
 100 105 110
 Ile Leu Gly Gln Ser Glu Asn Phe Ile Ala Tyr Lys Gly Val Leu Gly
 115 120 125
 Asp Leu Ser Ser Arg Arg Leu Phe Thr Met Ala Ala Thr Ala Met Ser
 130 135 140
 Thr Val Ser Leu Ser Ile Val Gly Ala Tyr Met Thr Met Leu Asp Ala
 145 150 155 160
 Lys Phe Val Val Ala Ala Leu Ile Leu Asn Met Phe Ser Thr Phe Ile
 165 170 175
 Ile Leu Ser Val Ile Asn Pro Thr Arg Pro Glu Ala Glu Pro Asp Ile
 180 185 190
 Lys Leu Glu Lys Leu His Glu Ser Gln Ser Phe Phe Glu Met Leu Gly
 195 200 205
 Glu Tyr Ile Leu Ala Gly Phe Lys Val Ala Met Ile Ile Leu Ala Met
 210 215 220
 Leu Ile Gly Phe Ile Ala Leu Ile Ser Ala Val Asn Ala Leu Phe Ser
 225 230 235 240
 Ser Ile Phe Gly Met Ser Phe Gln Gln Ile Leu Gly Tyr Val Phe Tyr
 245 250 255
 Pro Leu Ala Trp Leu Ile Gly Ile Pro Leu Ser Asp Ala Leu Asn Ala
 260 265 270
 Gly Ser Ile Met Ala Thr Lys Leu Val Ala Asn Glu Phe Val Ala Met
 275 280 285
 Ile Glu Leu Gln Lys Ile Ala His Gln Met Ser Pro Arg Gly Leu Gly
 290 295 300
 Ile Leu Ser Val Phe Leu Val Ser Phe Ala Asn Phe Ala Ser Ile Gly
 305 310 315 320
 Ile Val Ala Gly Ala Ile Lys Gly Leu Asn Glu Gln Gln Gly Asn Val
 325 330 335
 Val Ser Arg Phe Gly Leu Arg Leu Val Tyr Gly Ala Thr Leu Val Ser
 340 345 350
 Leu Leu Ser Ala Ser Phe Ala Gly Leu Val Leu
 355 360

<210> 7479

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 7479

Pro Gly Gln Pro Gln Pro Ser Pro Pro Asp Asp Pro Ser Gly Glu Gly
 1 5 10 15
 Arg Leu Leu Gly Gln Arg Asn Gln Thr Arg Pro Asp Gly Arg Ser Gly
 20 25 30
 Arg Leu Ser Gly Leu Tyr Pro Gln Gly Leu His Arg Arg Leu Leu Pro
 35 40 45
 Arg Leu Arg Glu Lys Thr Ala Arg Arg Ala Glu Pro Asp Leu Ser Ala
 50 55 60
 Val Arg His Pro Gln Arg Pro His Pro Gly Gly Asp Leu Gln Pro Gly
 65 70 75 80
 Gly Ser Glu Leu Leu Ser Gly Pro Val Arg Val Pro Val Ser Ala Arg

85 90 95
 His Gly Arg Thr Ala Val Arg Ala Gly Asp Arg
 100 105

<210> 7480
 <211> 147
 <212> PRT
 <213> Enterobacter cloacae

<400> 7480
 Phe Leu Arg Arg Ala Gly Ser Pro Ala Arg Pro Tyr Arg Leu Arg Arg
 1 5 10 15
 Thr Ala Met Pro Lys Ser Val Ile Ile Pro Pro Gly Thr Ser Thr Pro
 20 25 30
 Ile Ala Pro Phe Val Pro Gly Thr Leu Ala Asp Gly Val Val Tyr Val
 35 40 45
 Ser Gly Thr Leu Pro Phe Asp Lys Asp Asn Asn Val Val Phe Ile Asn
 50 55 60
 Asp Pro Lys Gly Gln Thr Arg His Val Leu Glu Thr Ile Lys Thr Val
 65 70 75 80
 Ile Glu Thr Ala Gly Gly Thr Met Glu Asp Val Thr Phe Asn Ser Ile
 85 90 95
 Phe Ile Thr Asp Trp Lys Asn Tyr Ala Ala Ile Asn Glu Ile Tyr Ala
 100 105 110
 Glu Phe Phe Pro Gly Asp Lys Pro Ala Arg Phe Cys Ile Gln Cys Gly
 115 120 125
 Leu Val Lys Pro Glu Ala Leu Val Glu Ile Ala Thr Val Ala His Ile
 130 135 140
 Ala Lys
 145

<210> 7481
 <211> 372
 <212> PRT
 <213> Enterobacter cloacae

<400> 7481
 Leu Pro Leu Arg Asp Thr Val Tyr Ser Ala Glu Pro Arg Thr Trp Gly
 1 5 10 15
 Ser Pro Phe Arg His Ala Leu Ser Cys Ser Pro Leu Arg Asp Phe Ile
 20 25 30
 Ile Gln Arg Glu Phe Thr Met Ser Tyr Ala Ile His Asn Gln Asn Leu
 35 40 45
 Ala Phe Asn Asp Ser Ala Ile Ala Gln Tyr Met Asn Thr Asp Phe Ile
 50 55 60
 Val Ile Asp Ile Ser Leu Cys Val Ala Leu Ala Arg Glu Gln Phe Phe
 65 70 75 80
 Glu Lys Leu Lys Asp Asp Asp Ile Pro Ser His Ile Phe Ile Glu Asp
 85 90 95
 Asn Gly Arg Ile Ala Gly Leu Ile Ala Val Arg Lys Leu Leu Gln Ala
 100 105 110
 Thr Asp Thr Val Gln Pro Val Lys Gly Leu Met Ile Ser Asp Phe Ile
 115 120 125
 Gln Leu Lys Pro Glu Asp Glu Arg Ala Asp Val Ala Gly Leu Leu Ala
 130 135 140
 His Ala Gly Ala Asp Val Val Pro Val Val Thr His Gly Lys Leu Val
 145 150 155 160
 Gly Cys Leu Thr Glu Arg Glu Ile Ala His Leu Leu Glu Asp Asp Val
 165 170 175
 Thr Glu Asp Ala Gln Leu Gln Gly Ala Thr Leu Pro Leu Glu Lys Pro
 180 185 190

Tyr Leu Glu Thr Ser Ala Phe Ser Leu Trp Lys Lys Arg Ser Val Trp
 195 200 205
 Leu Leu Leu Leu Phe Val Ala Glu Ala Tyr Thr Ser Ser Val Ile Gln
 210 215 220
 His Phe Glu Glu Ala Leu Glu Ser Ala Ile Ala Leu Ala Phe Phe Ile
 225 230 235 240
 Pro Leu Leu Ile Gly Thr Gly Gly Asn Ser Gly Thr Gln Ile Thr Ser
 245 250 255
 Thr Leu Val Arg Ala Met Ala Leu Gly Glu Val His Leu Arg Asp Val
 260 265 270
 Gly Arg Val Leu Arg Lys Glu Met Ser Thr Ser Leu Met Ile Ala Ala
 275 280 285
 Thr Leu Gly Leu Ala Gly Cys Val Arg Ala Trp Met Met Gly Ile Gly
 290 295 300
 Met Glu Ile Thr Leu Ile Val Ser Leu Thr Leu Val Cys Ile Thr Leu
 305 310 315 320
 Trp Ser Ala Ile Val Ser Ser Val Ile Pro Met Val Leu Lys Arg Cys
 325 330 335
 Lys Ile Asp Pro Ala Val Val Ser Ala Pro Phe Ile Ala Thr Leu Ile
 340 345 350
 Asp Gly Thr Gly Leu Ile Ile Tyr Phe Lys Ile Ala Gln Tyr Thr Leu
 355 360 365
 Gly Leu Glu
 370

<210> 7482

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 7482

Leu Cys Leu Thr Thr Ile Met Asn Phe Leu Phe Ile Ser Asp Asn Tyr
 1 5 10 15
 Tyr Leu Cys His Gly Val Ser Ser Ser Leu Thr Ser Thr His Leu Ile
 20 25 30
 Arg Asp Asp Ala Asp Ile His Asp Leu Asp Gly Val Asp Gln Ala Met
 35 40 45
 Asp Phe Ile Ile Ala Ile Glu Gln Asp Lys Leu Arg Asn Lys Thr Ile
 50 55 60
 Arg Gln Val Lys Lys Val Lys Cys Asp Tyr Ile Val Leu Met His Glu
 65 70 75 80
 Ile Glu Ala Asn Ser Ala Val Arg Ile Asp Asn Ile Ile Tyr Ser Ser
 85 90 95
 Met His Phe Thr Ala His Pro Phe Gln Gln Leu Met Arg Phe Tyr Arg
 100 105 110
 Ala Leu Arg Thr His Ser Phe Thr Arg Arg Glu Tyr Asp Val Leu Lys
 115 120 125
 Leu Phe His Leu Glu Asn His Glu Ile Ala Lys Lys Leu Gln Leu Ser
 130 135 140
 Gln Lys Thr Thr Ser Thr Tyr Arg Val Arg Ile Leu Glu Lys Leu Asn
 145 150 155 160
 Met Arg Ser Lys Asn Ile Leu Ala Met Thr Arg Val Lys Ser Ala Ile
 165 170 175
 Val Asp

<210> 7483

<211> 1364

<212> PRT

<213> Enterobacter cloacae

<400> 7483

Ser Leu Thr Ile His Ser Phe Ser Ser Leu Gln Thr Arg Ser His Leu
 1 5 10 15
 Thr Arg Leu His Lys Val Ala Thr Trp Ile Phe His Ala Ile Asn
 20 25 30
 Arg Thr Leu Leu Gln Asn Asn Arg Ser Phe Gly Met Gly Met Thr Thr
 35 40 45
 Met Gly Val Lys Leu Asp Asp Ala Thr Arg Glu Arg Ile Lys Thr Ala
 50 55 60
 Ala Thr Arg Ile Asp Arg Thr Pro His Trp Leu Ile Lys Gln Ala Ile
 65 70 75 80
 Phe Asn Tyr Leu Glu Arg Leu Glu Ser Glu Glu Gly Leu Pro Glu Leu
 85 90 95
 Pro Ala Leu Leu Ala Gly Ala Ala Asn Glu Ser Glu Glu Ala Ala Thr
 100 105 110
 Ala Val Glu Glu Asn His Gln Pro Phe Leu Glu Phe Ala Glu Gln Ile
 115 120 125
 Leu Pro Gln Ser Val Ser Arg Ala Ala Ile Thr Gly Ala Tyr Arg Arg
 130 135 140
 Ala Glu Thr Asp Ala Val Pro Met Leu Leu Glu Gln Ala Arg Leu Pro
 145 150 155 160
 Glu Ala Val Ala Ala Gln Ala His Ser Leu Ala Tyr Gln Leu Ala Asp
 165 170 175
 Lys Leu Arg Asn Gln Lys Thr Ala Ser Gly Arg Ala Gly Met Val Gln
 180 185 190
 Gly Leu Leu Gln Glu Phe Ser Leu Ser Ser Gln Glu Gly Val Ala Leu
 195 200 205
 Met Cys Leu Ala Glu Ala Leu Leu Arg Ile Pro Asp Lys Ala Thr Arg
 210 215 220
 Asp Ala Leu Ile Arg Asp Lys Ile Ser Asn Gly Asn Trp His Ser His
 225 230 235 240
 Ile Gly Arg Ser Pro Ser Leu Phe Val Asn Ala Ala Thr Trp Gly Leu
 245 250 255
 Leu Phe Thr Gly Lys Leu Val Ser Thr His Asn Glu Ala Asn Leu Ser
 260 265 270
 Arg Ser Leu Asn Arg Ile Ile Gly Lys Ser Gly Glu Pro Leu Ile Arg
 275 280 285
 Lys Gly Val Asp Met Ala Met Arg Leu Met Gly Glu Gln Phe Val Thr
 290 295 300
 Gly Glu Thr Ile Ala Glu Ala Leu Ala Asn Ala Arg Lys Leu Glu Asp
 305 310 315 320
 Lys Gly Phe Arg Tyr Ser Tyr Asp Met Leu Gly Glu Ala Ala Leu Thr
 325 330 335
 Ala Ala Asp Ala Gln Ala Tyr Met Val Ser Tyr Gln Gln Ala Ile His
 340 345 350
 Ala Ile Gly Lys Ala Ser Asn Gly Arg Gly Ile Tyr Glu Gly Pro Gly
 355 360 365
 Ile Ser Ile Lys Leu Ser Ala Leu His Pro Arg Tyr Ser Arg Ala Gln
 370 375 380
 Tyr Asp Arg Val Met Glu Glu Leu Tyr Pro Arg Leu Lys Ser Leu Thr
 385 390 395 400
 Leu Leu Ala Arg Gln Tyr Asp Ile Gly Ile Asn Ile Asp Ala Glu Asp
 405 410 415
 Ala Asp Arg Leu Glu Ile Ser Leu Asp Leu Leu Lys Leu Cys Phe
 420 425 430
 Glu Pro Glu Leu Ala Gly Trp Asn Gly Ile Gly Phe Val Ile Gln Ala
 435 440 445
 Tyr Gln Lys Arg Cys Pro Phe Val Ile Asp Tyr Leu Ile Asp Leu Ala
 450 455 460
 Ser Arg Ser Arg Arg Arg Leu Met Ile Arg Leu Val Lys Gly Ala Tyr
 465 470 475 480

Trp Asp Ser Glu Ile Lys Arg Ala Gln Met Glu Gly Leu Glu Gly Tyr
 485 490 495
 Pro Val Tyr Thr Arg Lys Val Tyr Thr Asp Val Ser Tyr Leu Ala Cys
 500 505 510
 Ala Lys Lys Leu Leu Gly Val Pro Asn Leu Ile Tyr Pro Gln Phe Ala
 515 520 525
 Thr His Asn Ala His Thr Leu Ala Ala Ile Tyr Ser Leu Ala Gly Gln
 530 535 540
 Asn Tyr Tyr Pro Gly Gln Tyr Glu Phe Gln Cys Leu His Gly Met Gly
 545 550 555 560
 Glu Pro Leu Tyr Glu Gln Val Thr Gly Lys Val Ala Asp Gly Lys Leu
 565 570 575
 Asn Arg Pro Cys Arg Ile Tyr Ala Pro Val Gly Thr His Glu Thr Leu
 580 585 590
 Leu Ala Tyr Leu Val Arg Arg Leu Leu Glu Asn Gly Ala Asn Thr Ser
 595 600 605
 Phe Val Asn Arg Ile Ala Asp Thr Thr Leu Pro Leu Asp Glu Leu Val
 610 615 620
 Ala Asp Pro Val Gln Ala Val Glu Lys Met Ala Ala Gln Glu Gly Gln
 625 630 635 640
 Ile Gly Leu Pro His Pro Lys Ile Ala Leu Pro Arg Glu Leu Tyr Gly
 645 650 655
 Ala Gly Arg Val Asn Ser Ala Gly Leu Asp Leu Ala Asn Glu His Arg
 660 665 670
 Leu Ala Ser Leu Ser Ser Ala Leu Leu Asn Ser Ala Leu Gln Lys Trp
 675 680 685
 Gln Ala Arg Pro Ile Leu Glu Gln Ser Val Glu Asp Gly Glu Met Gln
 690 695 700
 Pro Val Ile Asn Pro Ala Glu Pro Lys Asp Ile Val Gly Tyr Val Arg
 705 710 715 720
 Glu Ala Thr Glu Thr Glu Val Glu Gln Ala Leu Glu Ser Ala Val Asn
 725 730 735
 Asn Ala Pro Ile Trp Phe Ala Thr Pro Gln Glu Arg Ala Ala Ile
 740 745 750
 Leu Glu Arg Ala Ala Val Leu Met Glu Asp Gln Met Gln Gln Leu Ile
 755 760 765
 Gly Ile Leu Val Arg Glu Ala Gly Lys Thr Leu Ser Asn Ala Ile Ala
 770 775 780
 Glu Val Arg Glu Ala Val Asp Phe Leu His Tyr Tyr Ala Gly Gln Val
 785 790 795 800
 Arg Asp Asp Phe Asp Asn Glu Thr His Arg Pro Leu Gly Pro Val Val
 805 810 815
 Cys Ile Ser Pro Trp Asn Phe Pro Leu Ala Ile Phe Thr Gly Gln Ile
 820 825 830
 Ala Ala Ala Leu Ala Ala Gly Asn Ser Val Leu Ala Lys Pro Ala Glu
 835 840 845
 Gln Thr Pro Leu Ile Ala Ala Gln Gly Ile Asn Ile Leu Leu Glu Ala
 850 855 860
 Gly Val Pro Ala Gly Val Val Gln Leu Leu Pro Gly Arg Gly Glu Thr
 865 870 875 880
 Val Gly Ala Lys Leu Thr Ser Asp Asn Arg Val Arg Gly Val Met Phe
 885 890 895
 Thr Gly Ser Thr Glu Val Ala Ser Leu Leu Gln Arg Asn Ile Ala Thr
 900 905 910
 Arg Leu Asp Ala Gln Gly Arg Pro Thr Pro Leu Ile Ala Glu Thr Gly
 915 920 925
 Gly Met Asn Ala Met Ile Val Asp Ser Ser Ala Leu Thr Glu Gln Val
 930 935 940
 Val Val Asp Val Leu Ala Ser Ala Phe Asp Ser Ala Gly Gln Arg Cys
 945 950 955 960
 Ser Ala Leu Arg Val Leu Cys Leu Gln Asp Asp Val Ala Asp His Thr

965 970 975
 Leu Lys Met Leu Arg Gly Ala Met Ala Glu Cys Arg Met Gly Asn Pro
 980 985 990
 Gly Arg Leu Thr Thr Asp Ile Gly Pro Val Ile Asp Ala Glu Ala Lys
 995 1000 1005
 Ala Asn Ile Glu Asn His Ile Gln Thr Met Arg Ala Lys Gly Arg Pro
 1010 1015 1020
 Val Phe Gln Ala Val Arg Glu Asn Ser Glu Asp Ala Arg Glu Trp Gln
 1025 1030 1035 1040
 Thr Gly Thr Phe Val Pro Pro Thr Leu Ile Glu Leu Ala Ser Phe Asp
 1045 1050 1055
 Glu Leu Lys Lys Glu Val Phe Gly Pro Val Leu His Val Val Arg Tyr
 1060 1065 1070
 Asn Arg Asn Asn Leu Asn Glu Leu Ile Asp Gln Ile Asn Ala Ser Gly
 1075 1080 1085
 Tyr Gly Leu Thr Leu Gly Val His Thr Arg Ile Asp Glu Thr Ile Ala
 1090 1095 1100
 Gln Val Thr Gly Asn Ala Lys Val Gly Asn Leu Tyr Val Asn Arg Asn
 1105 1110 1115 1120
 Met Val Gly Ala Val Val Gly Val Gln Pro Phe Gly Gly Glu Gly Leu
 1125 1130 1135
 Ser Gly Thr Gly Pro Lys Ala Gly Gly Pro Leu Tyr Leu Tyr Arg Leu
 1140 1145 1150
 Leu Ala Asn Arg Pro Glu Asn Ala Leu Gly Val Thr Leu Ala Arg Gln
 1155 1160 1165
 Asp Ala Glu Tyr Pro Val Asp Ala Gln Val Lys Ala Val Leu Thr Gln
 1170 1175 1180
 Pro Leu Asp Ala Leu Ile Lys Trp Ala Glu Asn Arg Pro Glu Leu Arg
 1185 1190 1195 1200
 Ala Ile Ala Gln Gln Tyr Gly Glu Leu Ala Gln Ala Gly Thr Gln Arg
 1205 1210 1215
 Leu Leu Pro Gly Pro Thr Gly Glu Arg Asn Thr Trp Thr Leu Met Pro
 1220 1225 1230
 Arg Glu Arg Val Leu Cys Val Ala Asp Asn Glu Gln Asp Ala Leu Val
 1235 1240 1245
 Gln Leu Ala Ala Thr Ala Thr Gly Cys Glu Val Leu Trp Pro Glu
 1250 1255 1260
 Asp Ala Leu His Arg Asp Leu Ala Lys Gln Leu Pro Lys Ala Val Ser
 1265 1270 1275 1280
 Ala Arg Ile Arg Phe Ala Lys Ala Asp Ala Leu Thr Gln Pro Phe
 1285 1290 1295
 Asp Ala Val Ile Tyr His Gly Asp Ser Asp Gln Leu Arg Glu Leu Cys
 1300 1305 1310
 Glu Gln Val Ala Ala Arg Ser Gly Ala Ile Val Ser Val Gln Gly Phe
 1315 1320 1325
 Ala Arg Gly Glu Thr Asn Leu Leu Glu Arg Leu Tyr Val Glu Arg
 1330 1335 1340
 Ser Leu Ser Val Asn Thr Ala Ala Ala Gly Gly Asn Ala Ser Leu Met
 1345 1350 1355 1360
 Thr Ile Gly

<210> 7484

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7484

Arg Cys Ala Asn Lys Ala Pro Glu Thr Glu Pro Tyr Phe Ile Gly Glu
 1 5 10 15
 Cys Met Lys Arg Tyr Leu Ile Ala Gly Ala Ala Leu Leu Leu Ser Ala

20 25 30
 Ser Ala Leu Ala Asp Glu Cys Asp Lys Ala Thr Thr Gln Thr Glu Leu
 35 40 45
 Ser Ala Cys Ala Ala Glu Gln Tyr Gln Ala Ala Asp Lys Lys Leu Asn
 50 55 60
 Gln Thr Tyr Gln Ala Ala Ile Lys Arg Ala Ala Pro Gln Arg Asp
 65 70 75 80
 Leu Leu Lys Lys Ala Gln Gln Ala Trp Ile Ala Leu Arg Asp Ala Asp
 85 90 95
 Cys Lys Leu Met Gly Ser Gly Thr Glu Gly Gly Thr Ile Gln Pro Met
 100 105 110
 Ile Ile Asn Gln Cys Leu Thr Glu Lys Thr Ala Glu Arg Glu Ala Phe
 115 120 125
 Leu Ala Ser Leu Met Gln Cys Glu Glu Gly Asn Leu Ser Cys Pro Phe
 130 135 140
 Gln Pro Ala Asp
 145

<210> 7485

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 7485

Phe Ser His Arg Arg Gly Asn Leu Arg Arg Ala His Ser Ala Ala Asp
 1 5 10 15
 Ala Val Pro Arg Pro His Pro Cys Arg Asp Glu Gly Gly Val Met
 20 25 30
 Thr Thr Leu Asn Ala Arg Pro Glu Ala Ile Thr Phe Asp Ala Gln Arg
 35 40 45
 Ser Ala Leu Ile Val Val Asp Met Gln Asn Ala Tyr Ala Ser Lys Gly
 50 55 60
 Gly Tyr Leu Asp Leu Ala Gly Phe Asp Val Ser Thr Thr Gln Pro Val
 65 70 75 80
 Ile Glu Asn Ile Lys Thr Ala Val His Ala Ala Arg Ala Ala Gly Met
 85 90 95
 Leu Ile Val Trp Phe Gln Asn Gly Trp Asp Asp Gln Tyr Val Glu Ala
 100 105 110
 Gly Gly Pro Gly Ser Pro Asn Phe His Lys Ser Asn Ala Leu Lys Thr
 115 120 125
 Met Arg Gln Arg Pro Glu Leu Gln Gly Thr Leu Leu Ala Lys Gly Gly
 130 135 140
 Trp Asp Tyr Gln Leu Val Asp Glu Leu Val Pro Glu Ala Ser Asp Ile
 145 150 155 160
 Val Leu Pro Lys Pro Arg Tyr Ser Gly Phe Phe Asn Thr Pro Leu Asp
 165 170 175
 Ser Leu Leu Arg Ser Arg Gly Ile Arg His Leu Val Phe Thr Gly Ile
 180 185 190
 Ala Thr Asn Val Cys Val Glu Ser Thr Leu Arg Asp Gly Phe Phe Leu
 195 200 205
 Glu Tyr Phe Gly Val Val Leu Glu Asp Ala Thr His Gln Ala Gly Pro
 210 215 220
 Asp Phe Ala Gln Lys Ala Leu Phe Asn Ile Glu Thr Phe Phe Gly
 225 230 235 240
 Trp Val Ser Asn Val Asn Asp Phe Cys Asp Ala Leu Asp Pro Pro Leu
 245 250 255
 Ala Arg Ile Ala
 260

<210> 7486

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 7486

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Ser Pro Lys Arg Trp Leu Lys Leu Pro Pro Leu Arg Thr Ser Arg Ser
1      5      10      15
Glu Ala Ala Met Lys Leu Ser Ile Ser Pro Pro Phe Ala Gly Ala
20      25      30
Pro Val Val Val Leu Ile Ala Gly Leu Gly Gly Ser Gly Ser Tyr Trp
35      40      45
Leu Pro Gln Leu Ala Val Leu Gly Gln Glu Tyr Gln Val Val Cys Tyr
50      55      60
Asp Gln Arg Gly Thr Gly Asp Asn Pro Asp Thr Leu Pro Glu Asp Tyr
65      70      75      80
Thr Leu Ala His Met Ala Asp Glu Leu Ala Leu Ala Gly Ala
85      90      95
Gly Ile Ala Arg Tyr Cys Val Val Gly His Ala Leu Gly Ala Leu Val
100      105      110
Gly Leu Arg Leu Ala Ile Asp Lys Pro Asp Ala Leu Thr Ala Leu Val
115      120      125
Cys Val Asn Gly Trp Leu Thr Leu Asn Ala His Thr Arg Arg Cys Phe
130      135      140
Asp Val Arg Glu Arg Leu Leu His Ala Gly Gly Ala Gln Ala Trp Val
145      150      155      160
Glu Ala Gln Pro Leu Phe Leu Tyr Pro Ala Asp Trp Met Ala Ala Arg
165      170      175
Ala Pro Arg Leu Glu Ala Glu Asp Ala Leu Ala Leu Ala His Phe Gln
180      185      190
Gly Lys Ala Asn Leu Leu Arg Arg Leu His Ala Leu Lys Gln Ala Asp
195      200      205
Phe Ser Arg His Ala Ala Arg Val Arg Cys Pro Val Gln Ile Ile Cys
210      215      220
Ser Thr Asp Asp Leu Leu Val Pro Ser Val Cys Ser Asp Glu Leu His
225      230      235      240
Ala Ala Leu Pro His Ala Arg Lys Thr Val Met Arg Gln Gly Gly His
245      250      255
Ala Cys Asn Val Thr Ala Pro Asp Ile Phe Asn Thr Leu Leu Leu Asn
260      265      270
Gly Leu Ala Ser Leu Leu His Ser Pro Glu Pro Ala Leu
275      280      285

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<210> 7487

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 7487

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Met Ser Glu Ala Ile Thr Pro Ala Ala Leu Glu Thr Leu Phe Thr Gly
1      5      10      15
Ala Arg Thr His Asn Gly Trp Leu Asp Ile Pro Val Ser Asp Glu Thr
20      25      30
Leu Arg Glu Ile Tyr Asp Leu Met Lys Trp Gly Pro Thr Ser Ala Asn
35      40      45
Cys Ser Pro Ala Arg Ile Val Phe Val Arg Ser Pro Glu Gly Lys Glu
50      55      60
Lys Leu Arg Pro Ala Leu Ser Ser Gly Asn Leu Glu Lys Thr Leu Thr
65      70      75      80
Ala Pro Val Thr Ala Ile Val Ala Trp Asp Ser Glu Phe Tyr Glu Arg
85      90      95
Leu Pro Glu Leu Phe Pro His Gly Asp Ala Arg Ser Trp Phe Thr Ala
100      105      110

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Ser Pro Ala Leu Ala Glu Glu Thr Ala Phe Arg Asn Ser Ser Met Gln
 115 120 125
 Ala Ala Phe Leu Ile Phe Ala Cys Arg Ala Leu Gly Leu Asp Thr Gly
 130 135 140
 Pro Met Ser Gly Phe Asp Arg Glu Lys Val Asp Ala Ala Phe Phe Thr
 145 150 155 160
 Gly Thr Leu Leu Lys Ser Asn Leu Leu Ile Asn Ile Gly Tyr Gly Asp
 165 170 175
 Thr Thr Glu Leu Tyr Gly Arg Leu Pro Arg Leu Thr Phe Glu Asp Ala
 180 185 190
 Cys Gly Leu Ala
 195

<210> 7488

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 7488

Cys Lys Met Ala Lys Val Leu Val Leu Tyr Tyr Ser Met Tyr Gly His
 1 5 10 15
 Ile Glu Thr Met Ala His Ala Val Ala Glu Gly Ala Asn Arg Val Asp
 20 25 30
 Gly Val Glu Val Val Val Lys Arg Val Pro Glu Thr Met Gln Ala Glu
 35 40 45
 Ala Phe Ala Lys Ala Gly Gly Lys Thr Gln Asn Ala Pro Val Ala Thr
 50 55 60
 Pro Gln Glu Leu Ala Asp Tyr Asp Ala Ile Ile Phe Gly Thr Pro Thr
 65 70 75 80
 Arg Phe Gly Asn Met Ser Gly Gln Met Arg Thr Phe Leu Asp Gln Thr
 85 90 95
 Gly Gly Leu Trp Ala Ser Gly Ala Leu Tyr Gly Lys Leu Ala Ser Val
 100 105 110
 Phe Ser Ser Thr Gly Thr Gly Gly Gly Gln Glu Gln Thr Ile Thr Ser
 115 120 125
 Thr Trp Thr Thr Leu Ala His His Gly Met Val Ile Val Pro Ile Gly
 130 135 140
 Tyr Gly Ala Gln Glu Leu Phe Asp Val Ser Gln Val Arg Gly Gly Thr
 145 150 155 160
 Pro Tyr Gly Ala Thr Thr Ile Ala Gly Gly Asp Gly Ser Arg Gln Pro
 165 170 175
 Ser Asn Glu Glu Leu Ser Ile Ala Arg Tyr Gln Gly Glu Tyr Val Ala
 180 185 190
 Gly Leu Ala Lys Lys Leu Asn Gly
 195 200

<210> 7489

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 7489

Pro Asn Arg Arg Thr Ser Met Pro Thr Gln Glu Ser Lys Ala His His
 1 5 10 15
 Val Gly Glu Trp Ala Ser Leu Arg Asn Thr Ser Pro Glu Ile Ala Glu
 20 25 30
 Ala Ile Phe Glu Val Ala Asn Tyr Asp Glu Lys Leu Ala Glu Gln Ile
 35 40 45
 Trp Glu Glu Gly Asn Asp Glu Val Leu Val Arg Ala Phe Lys Lys Thr
 50 55 60
 Asp Lys Asp Ser Leu Phe Trp Gly Glu Gln Thr Ile Glu Arg Lys Asn

65
Val

70

75

80

<210> 7490

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 7490

Pro Cys Trp Arg Ala Ser Met Ile Ser Ala Leu Thr Ser Thr Pro Lys
1 5 10 15
Met Arg Thr Val Trp Arg Ser Pro Ser Ile Cys Trp Lys Asn Cys Ala
20 25 30
Ser Ser Arg Ser Trp Arg Ala Gly Thr Gly Leu Val Ser Leu Ser Arg
35 40 45
Pro Thr Arg Asn Ala Ala Arg Ser Ser Leu Thr Thr
50 55 60

<210> 7491

<211> 393

<212> PRT

<213> Enterobacter cloacae

<400> 7491

His Pro Asn Asn Lys Val Ile Phe Lys Thr Gly Thr Ala Phe Ala Lys
1 5 10 15
Thr Pro Leu His Leu Arg Arg Asn Glu Glu Arg Phe Val Met Lys Ile
20 25 30
Gly Val Phe Val Pro Ile Gly Asn Asn Gly Trp Leu Ile Ser Thr Thr
35 40 45
Ala Pro Gln Tyr Met Pro Thr Phe Glu Leu Asn Lys Ala Ile Val Gln
50 55 60
Lys Ala Glu His Tyr His Phe Asp Phe Ala Leu Ser Met Ile Lys Leu
65 70 75 80
Arg Gly Phe Gly Gly Lys Thr Glu Phe Trp Asp His Asn Leu Glu Ser
85 90 95
Phe Thr Leu Met Ala Gly Leu Ala Ala Val Thr Ser Arg Ile Gln Ile
100 105 110
Tyr Ala Thr Ala Ala Thr Leu Thr Leu Pro Pro Ala Ile Val Ala Arg
115 120 125
Met Ala Ser Thr Ile Asp Ser Ile Ser Gly Arg Phe Gly Val Asn
130 135 140
Leu Val Thr Gly Trp Gln Lys Pro Glu Tyr Glu Gln Met Gly Leu Trp
145 150 155 160
Pro Gly Asp Asp Tyr Phe Ser Arg Arg Tyr Asp Tyr Leu Thr Glu Tyr
165 170 175
Val Gln Val Leu Arg Asp Leu Trp Gly Thr Gly Lys Ser Asp Phe Lys
180 185 190
Gly Asp Phe Phe Thr Met Asn Asp Cys Arg Val Ser Pro Gln Pro Ser
195 200 205
Val Pro Met Lys Val Ile Cys Ala Gly Gln Ser Asp Ala Gly Met Glu
210 215 220
Phe Ser Ala Lys Tyr Ala Asp Phe Asn Phe Cys Phe Gly Lys Gly Val
225 230 235 240
Asn Thr Pro Ala Ala Phe Ala Pro Thr Ala Ala Arg Met Lys Glu Ala
245 250 255
Ala Asp Lys Thr Gly Arg Asp Val Gly Ser Tyr Val Leu Phe Met Val
260 265 270
Ile Ala Asp Glu Thr Asp Glu Ala Ala Arg Ala Lys Trp Gln Arg Tyr
275 280 285

Lys Asp Gly Ala Asp Glu Glu Ala Leu Ser Trp Leu Thr Glu Gln Ser
 290 295 300
 Gln Lys Asp Thr Arg Ser Gly Ala Asp Thr Asn Val Arg Gln Met Ala
 305 310 315 320
 Asp Pro Thr Ser Ala Val Asn Ile Asn Met Gly Thr Leu Val Gly Ser
 325 330 335
 Tyr Ala Ser Val Ala Arg Met Leu Asp Glu Val Ala Ala Val Pro Gly
 340 345 350
 Ala Glu Gly Val Leu Leu Thr Phe Asp Phe Leu Thr Gly Val Glu
 355 360 365
 Thr Phe Gly Glu Arg Ile Gln Pro Leu Met Gln Cys Arg Ala His Ile
 370 375 380
 Pro Ala Val Thr Lys Glu Val Ala
 385 390

<210> 7492

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 7492

Gly Ala Ile Met Thr Thr Leu Asp Gln Gln Thr Phe Arg Asp Ala Met
 1 5 10 15
 Ala Cys Val Gly Ala Ala Val Asn Ile Ile Thr Thr Asp Gly Pro Ala
 20 25 30
 Gly Met Ala Gly Phe Thr Ala Ser Ala Val Cys Ser Val Thr Asp Thr
 35 40 45
 Pro Pro Thr Leu Leu Val Cys Leu Asn Arg Gly Ala Ser Val Trp Pro
 50 55 60
 Ile Phe Ser Glu Asn Arg Thr Leu Cys Val Asn Thr Leu Ser Ala Gly
 65 70 75 80
 Gln Glu Pro Leu Ser Ser Leu Phe Gly Gly Lys Thr Pro Met Ala Asp
 85 90 95
 Arg Phe Ala Ala Ala Arg Trp Gln Thr Gly Glu Thr Gly Cys Pro Arg
 100 105 110
 Leu Glu Ala Ala Leu Ala Ser Phe Asp Cys Arg Ile Ser Gln Val Val
 115 120 125
 Ser Val Gly Thr His Asp Ile Leu Phe Cys Asp Ile Val Ser Ile Ile
 130 135 140
 Arg His Pro Ala Pro Gln Gly Leu Val Trp Phe Asp Arg Gly Tyr His
 145 150 155 160
 Ala Leu Met Arg Pro Ala Cys
 165

<210> 7493

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 7493

Ser Ala Phe Arg Arg Gln Ile Met Phe Gly Leu Pro His Trp Gln Leu
 1 5 10 15
 Lys Ser Thr Ser Thr Glu Glu Gly Val Val Ala Pro Asp Gly Arg Leu
 20 25 30
 Pro Leu Gly Gln Thr Met Val Met Gly Val Gln His Ala Val Ala Met
 35 40 45
 Phe Gly Ala Thr Val Leu Met Pro Met Leu Met Gly Leu Asp Pro Asn
 50 55 60
 Leu Ala Ile Leu Met Ser Gly Met Gly Thr Leu Leu Phe Phe Phe Val
 65 70 75 80
 Thr Gly Gly Arg Val Pro Ser Tyr Leu Gly Ser Ser Ala Ala Phe Val

85 90 95
 Gly Val Val Ile Ala Ala Thr Gly Phe Asn Gly Gln Gly Ile Asn Pro
 100 105 110
 Asn Leu Ser Val Ala Leu Gly Gly Ile Ile Ala Cys Gly Leu Val Tyr
 115 120 125
 Thr Leu Thr Gly Leu Val Val Met Lys Val Gly Thr Arg Trp Ile Glu
 130 135 140
 Arg Met Met Pro Pro Val Val Thr Gly Ala Val Val Met Ala Ile Gly
 145 150 155 160
 Leu Asn Leu Ala Pro Ile Ala Val Lys Ser Val Ser Gly Ser Pro Phe
 165 170 175
 Glu Ser Trp Met Ala Val Ile Thr Val Leu Cys Ile Gly Val Val Ala
 180 185 190
 Val Phe Thr Arg Gly Met Ile Gln Arg Leu Leu Ile Leu Val Gly Leu
 195 200 205
 Ile Ala Ala Cys Leu Val Tyr Ala Leu Leu Ala Asn Val Phe Gly Leu
 210 215 220
 Gly Lys Pro Val Asp Phe Thr Leu Ile His Gln Ala Ala Trp Phe Gly
 225 230 235 240
 Met Pro His Ile Thr Ser Pro Thr Phe Asn Val Gln Ala Met Met Leu
 245 250 255
 Ile Ala Pro Val Ala Val Ile Leu Val Ala Glu Asn Leu Gly His Leu
 260 265 270
 Lys Ala Val Ala Gly Met Thr Gly Arg Asn Met Asp Pro Tyr Met Gly
 275 280 285
 Arg Ala Phe Val Gly Asp Gly Leu Ala Thr Met Leu Ser Gly Ser Val
 290 295 300
 Gly Gly Ser Gly Val Thr Tyr Ala Glu Asn Ile Gly Val Met Ala
 305 310 315 320
 Val Thr Lys Val Tyr Ser Thr Leu Val Phe Val Ala Ala Val Met
 325 330 335
 Ala Met Leu Leu Gly Phe Ser Pro Lys Phe Gly Ala Leu Ile His Thr
 340 345 350
 Ile Pro Ala Pro Val Ile Gly Gly Ala Ser Ile Val Val Phe Gly Leu
 355 360 365
 Ile Ala Val Ala Gly Ala Arg Ile Trp Val Gln Asn His Val Asp Leu
 370 375 380
 Ser Gln Asn Gly Asn Leu Ile Met Val Ala Val Thr Leu Val Leu Gly
 385 390 395 400
 Ala Gly Asp Phe Ala Leu Thr Leu Gly Gly Phe Thr Val Gly Gly Ile
 405 410 415
 Gly Thr Ala Thr Phe Gly Ala Ile Leu Leu Asn Ala Leu Leu Ser Arg
 420 425 430
 Arg Lys Arg Asp Val Pro Gln Gly Lys Ala Ile Thr Pro Ser Thr
 435 440 445

<210> 7494

<211> 894

<212> PRT

<213> Enterobacter cloacae

<400> 7494

Leu Phe Leu Gln Trp Asn Gly Trp Thr Ala Ala Tyr Phe Gly Thr His
 1 5 10 15
 Met Ser Gln Glu Thr Pro Ala Ser Pro Thr Glu Ala Arg Ile Lys Thr
 20 25 30
 Lys Arg Arg Ile Ser Pro Phe Trp Leu Leu Pro Val Ile Ala Leu Met
 35 40 45
 Ile Ala Gly Trp Leu Ile Trp Thr Ser Tyr Glu Asp Arg Gly Ser Thr
 50 55 60
 Ile Thr Ile Asp Phe Gln Ser Ala Asp Gly Ile Val Ala Gly Arg Thr

65				70				75				80
Pro	Val	Arg	Phe	Gln	Gly	Val	Glu	Val	Gly	Thr	Val	Gln
				85					90			95
Leu	Gly	Lys	Gly	Leu	Asn	Lys	Ile	Gln	Val	Arg	Ala	Ser
			100					105				110
Asp	Met	Gln	Asp	Ala	Leu	Arg	Ala	Glu	Thr	Gln	Phe	Trp
			115					120				125
Pro	Lys	Ala	Ser	Leu	Ala	Gly	Val	Ser	Gly	Leu	Asp	Ala
			130				135				140	
Gly	Asn	Tyr	Ile	Gly	Met	Met	Pro	Gly	Lys	Gly	Glu	Pro
			145			150				155		160
Phe	Val	Ala	Leu	Asp	Thr	Gln	Pro	Lys	Tyr	Arg	Leu	Asn
			165						170			175
Leu	Met	Ile	His	Leu	Arg	Ala	Pro	Asp	Leu	Gly	Ser	Leu
			180					185				190
Ser	Leu	Val	Tyr	Phe	Arg	Lys	Ile	Pro	Val	Gly	Arg	Val
			195				200					205
Ala	Ile	Asn	Pro	Asn	Lys	Asp	Gly	Val	Thr	Ile	Asp	Val
			210				215					220
Arg	Arg	Phe	Thr	Asn	Leu	Val	Lys	Lys	Gly	Ser	Arg	Phe
			225			230				235		240
Ser	Gly	Val	Asp	Ala	Asp	Leu	Ser	Leu	Ser	Gly	Ala	Lys
			245					250				255
Glu	Ser	Leu	Ala	Ala	Leu	Val	Asn	Gly	Ala	Ile	Ala	Phe
			260					265				270
Ala	Asp	Ser	Ser	Pro	Ala	Ala	Ala	Glu	Asp	Thr	Phe	Gly
			275				280					285
Asp	Leu	Ala	His	Ser	Gln	Arg	Gly	Val	Ile	Val	Lys	Leu
			290				295				300	
Asp	Ala	Lys	Gly	Leu	Lys	Ala	Gly	Ser	Thr	Pro	Leu	Met
			305			310				315		320
Leu	Glu	Val	Gly	Gln	Leu	Thr	Lys	Leu	Thr	Leu	Asn	Ala
			325					330				335
Val	Thr	Gly	Glu	Met	Thr	Val	Asp	Pro	Ser	Val	Val	Asp
			340					345				350
Glu	Lys	Thr	Arg	Ile	Glu	Leu	Arg	Asn	Pro	Lys	Leu	Ser
			355				360					365
Ala	Ser	Ile	Ser	Ser	Leu	Leu	Thr	Gly	Ser	Thr	Phe	Glu
			370				375				380	
Gly	Glu	Gly	Ala	Pro	Asn	Lys	Asn	Phe	Val	Ile	Ala	Pro
			385			390				395		400
Ala	Leu	Leu	Gln	Lys	Pro	Gly	Val	Leu	Thr	Val	Thr	Leu
			405					410				415
Glu	Ser	Tyr	Gly	Ile	Glu	Ala	Gly	Gln	Pro	Leu	Ile	Leu
			420					425				430
Gln	Val	Gly	Gln	Val	Leu	Glu	Arg	Lys	Leu	Lys	Glu	Lys
			435				440					445
Phe	Ser	Ala	Ala	Ile	Asp	Pro	Gln	Tyr	Ser	Asn	Leu	Val
			450				455				460	
Ser	Lys	Phe	Val	Val	Asn	Ser	Arg	Val	Asp	Val	Lys	Val
			465			470				475		480
Gly	Val	Glu	Phe	Leu	Gly	Ala	Ser	Ala	Ser	Glu	Trp	Val
			485					490				495
Ile	Arg	Ile	Leu	Pro	Gly	Ser	Lys	Gly	Ala	Leu	Arg	Glu
			500					505				510
Leu	Phe	Ala	Asn	Leu	Asp	Lys	Ala	Ile	Glu	Asn	Ser	Leu
			515				520				525	
Pro	Thr	Thr	Thr	Leu	Thr	Leu	Ser	Ala	Glu	Thr	Leu	Pro
			530			535				540		545
Ala	Gly	Ser	Val	Val	Leu	Tyr	Arg	Lys	Phe	Glu	Val	Gly
			545			550				555		560

Thr Val Arg Pro Arg Ala Asp Ala Phe Asp Ile Glu Leu His Ile Lys
 565 570 575
 Pro Glu Tyr Arg Lys Leu Leu Thr Pro Asn Ser Val Phe Trp Ala Glu
 580 585 590
 Gly Gly Ala Lys Val Gln Leu Asn Gly Ser Gly Leu Thr Val Gln Ala
 595 600 605
 Ser Pro Leu Ser Arg Ala Leu Arg Gly Ala Ile Ser Phe Asp Asn Leu
 610 615 620
 Ser Gly Ala Gly Gly Asn Met Arg Lys Gly Asp Lys Arg Ile Leu Phe
 625 630 635 640
 Pro Ser Glu Thr Ala Ala Arg Ala Val Gly Gly Gln Ile Thr Leu His
 645 650 655
 Thr Phe Asp Ala Gly Lys Leu Ala Glu Gly Met Pro Ile Arg Tyr Leu
 660 665 670
 Gly Ile Asp Ile Gly Gln Ile Gln Lys Leu Thr Leu Ile Thr Ala Arg
 675 680 685
 Asn Glu Val Gln Ala Thr Ala Val Leu Tyr Pro Glu Tyr Val Gln Thr
 690 695 700
 Phe Ala Arg Ala Gly Ser Arg Phe Ser Val Val Thr Pro Gln Ile Ser
 705 710 715 720
 Ala Ala Gly Val Glu His Leu Asp Thr Ile Leu Gln Pro Tyr Ile Asn
 725 730 735
 Val Glu Pro Gly Arg Gly Asn Ala Arg Arg Glu Phe Glu Leu Gln Glu
 740 745 750
 Ala Thr Ile Thr Asp Ser Arg Tyr Leu Asp Gly Leu Ser Ile Val Val
 755 760 765
 Glu Val Pro Glu Ala Gly Ser Leu Gly Ile Gly Thr Pro Val Leu Phe
 770 775 780
 Arg Gly Ile Glu Val Gly Thr Val Thr Ser Leu Thr Leu Gly Asn Leu
 785 790 795 800
 Ser Asp Arg Val Met Val Gly Leu Arg Ile Ser Gln Arg Tyr Gln His
 805 810 815
 Leu Val Arg Asn Ser Val Phe Trp Leu Ala Ser Gly Tyr Ser Leu
 820 825 830
 Asp Phe Gly Leu Thr Gly Gly Val Val Lys Thr Gly Thr Phe Asn Gln
 835 840 845
 Phe Ile Arg Gly Gly Ile Ala Phe Ala Thr Pro Gly Thr Pro Leu
 850 855 860
 Ala Pro Lys Ala Gln Ala Gly Lys His Phe Leu Leu Leu Glu Ser Glu
 865 870 875 880
 Pro Lys Glu Trp Arg Glu Trp Gly Thr Ala Leu Pro Arg
 885 890

<210> 7495

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7495

Leu His Trp Ser Tyr Gln Ile Leu Gly Asn Lys Pro Glu Ser Ile Met
 1 5 10 15
 Thr Lys Thr Ser Val Arg Ile Gly Ala Phe Glu Ile Asp Asp Ala Glu
 20 25 30
 Leu Arg Gly Glu Ser Gln Gly Glu Arg Thr Leu Ser Ile Pro Cys Lys
 35 40 45
 Ser Asp Pro Asp Leu Cys Met Gln Leu Asp Ala Trp Asp Ala Asp Thr
 50 55 60
 Ser Val Pro Ala Ile Leu Asp Gly Glu His Ser Val Leu Tyr Arg Glu
 65 70 75 80
 His Tyr Asp Ser Lys Thr Asp Ala Trp Val Leu Arg Leu Ala
 85 90 95

<210> 7496

<211> 368

<212> PRT

<213> *Enterobacter cloacae*

<400> 7496

Thr Gly Val Gly Phe Arg Glu Ser Lys Gln Thr Ile Asn Gln Pro Glu
 1 5 10 15
 Ile Lys Ile Ala Ala Leu Leu Ile Pro Tyr Ser Leu Ala Phe Lys Ile
 20 25 30
 Glu Arg Asn Lys Lys Arg Asp Phe His Val Ser Asn Ile His Leu Gln
 35 40 45
 Asn Asp Val Phe Tyr Pro His Arg Thr Asn Ile Ile Ser Glu Leu Val
 50 55 60
 Arg Gly Lys Arg Val Pro Gly Pro Ile Trp His Lys Arg Asp Tyr Arg
 65 70 75 80
 Leu Lys Phe Leu Leu Arg Ser Leu Leu Phe Trp Ser Ser Thr His Arg
 85 90 95
 Met Leu Glu Ala Leu Ser Gly Arg Asp Phe Asp Arg Leu Leu Thr
 100 105 110
 Ser Gln Ile Thr Leu Pro Ser Lys Thr His Arg Gln Tyr Leu Met Arg
 115 120 125
 Gly Leu Asn Ser Asn Asp Arg Ala Asp Ala Ile Val Ser His Tyr Gln
 130 135 140
 Trp Ile Asp Ser Leu Lys Asn Ile Ala Leu Ala His Ala Leu Thr Ser
 145 150 155 160
 Pro Gln Glu Val Pro Val Val Arg Phe Glu Ala Lys Asn Gly Glu Ile
 165 170 175
 Tyr Thr Val His Ala Ser Ser Ala Gly Lys Ala Glu Arg Glu Gly Glu
 180 185 190
 Ser Thr Leu Trp Leu His Asp Asn Asp Asn Thr Leu Leu Ala Ser Leu
 195 200 205
 Thr Phe Cys Val Ala Arg Ser Asn Gly Arg Thr Val Leu Val Ile Gly
 210 215 220
 Gly Leu Gln Gly Pro Arg Arg His Val Ser Arg Glu Val Ile Lys Gln
 225 230 235 240
 Ala Thr Arg Ala Cys His Gly Leu Phe Pro Lys Arg Val Leu Met Glu
 245 250 255
 Val Ile Phe Gln Leu Ala Ser Arg Ser Asn Ile Ser Ala Ile Phe Ala
 260 265 270
 Val Ser Asp Glu Gly His Val Phe Arg Ala Leu Arg Tyr Arg Leu Ser
 275 280 285
 Lys Gly Arg His Phe His Ala Ser Tyr Asp Glu Phe Trp Glu Gly Leu
 290 295 300
 Asn Gly Lys Lys Leu Ser Pro Phe Cys Trp Gln Leu Pro Leu Gln Met
 305 310 315 320
 Glu Arg Lys Ala Leu Glu Glu Ile Ala Ser Lys Lys Arg Ala Glu Tyr
 325 330 335
 Arg Arg Arg Phe Ala Leu Leu Asp Asp Ile Ala Ala Ser Val Gln Ala
 340 345 350
 Arg Ile Asp Pro Ala Val Val Ser Gly Lys Ile Gln Thr Lys Ile
 355 360 365

<210> 7497

<211> 91

<212> PRT

<213> *Enterobacter cloacae*

<400> 7497

Thr Ile Ala Val Thr Leu Pro Pro Gln Lys Lys Glu Lys Glu Met Asn

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1           5           10           15
Val Asn Leu Ala Leu Pro Gln Asp Glu Met Asp Lys Val Asn Val
20           25           30
Asp Leu Ala Ala Gly Val Ala Phe Lys Glu Arg Tyr Asn Met Pro
35           40           45
Val Val Ala Glu Val Val Glu Arg Glu Gln Pro Ala His Leu Arg Asp
50           55           60
Trp Phe Arg Glu Arg Leu Ile Ala His Arg Leu Ala Ser Val Asn Leu
65           70           75           80
Ser Arg Leu Pro Tyr Glu Pro Lys Val Lys
85           90

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<210> 7498

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 7498

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Asn Pro Ser Asp Leu Val Tyr Lys Glu Val Thr Met Ser Arg Trp Asn
1           5           10           15
Ile Ala Ala Ala Gln Tyr Ala Pro Arg His Asn Cys Val Asp Glu His
20           25           30
Val Lys His His Leu His Phe Ile Ala Glu Ala Ala Trp His Gly Cys
35           40           45
Asp Leu Ile Val Phe Pro Glu Leu Ser Leu Thr Gly Pro Gly Gly Thr
50           55           60
Ser Leu Pro Pro Pro Pro Asp Asp Leu Gln Leu Ala Pro Leu Leu His
65           70           75           80
Ala Ala Gln Ser Arg Phe Ile Thr Val Ile Ala Gly Ile Thr Leu Gln
85           90           95
Gln His Gly Gln Arg Gln Lys Gly Leu Ala Leu Phe Thr Pro Asn Leu
100          105          110
Ser Thr Ile Arg Arg Tyr Pro Gln Gly Asn Gly Ala Gly Val Ile Pro
115          120          125
Gly Asp Lys Arg Leu Thr Ile Val Asp Asn Gln Ala Asp Ala Pro Glu
130          135          140
Leu Asp Pro Glu Ala Thr Leu Phe Thr Ser Ser Leu Ala Val Gly Glu
145          150          155          160
His Arg Trp Arg Gln Ser Ile Gly Ser Leu Gln Arg Phe Ala His Lys
165          170          175
Tyr Ala Ile Ala Val Leu Met Ala Asn Ala Arg Gly Gly Ser Ala Leu
180          185          190
Trp Asp Glu Lys Gly Gln Leu Ile Val Arg Ala Asp Lys Gly Glu Leu
195          200          205          210
Leu Leu Thr Gly Ser Leu Gly Gln Gln Gly Trp Gln Gly Asp Ile Ile
210          215          220
Pro Leu Gly
225

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<210> 7499

<211> 226

<212> PRT

<213> Enterobacter cloacae

<400> 7499

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Asp Gln Glu Arg Ser Met Leu Arg Val Ile Asp Thr Glu Thr Cys Asp
1           5           10           15
Leu Gln Gly Gly Ile Val Glu Val Ala Ser Val Asp Val Ile Asp Gly
20           25           30
Lys Ile Val Asn Pro Met Ser His Leu Val Arg Pro Asp Arg Pro Ile
35           40           45

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Ser Ala Gln Ala Met Ala Ile His Arg Ile Thr Glu Ser Met Val Ala
 50 55 60
 Asp Lys Pro Trp Ile Glu Glu Ile Ile Pro Leu Tyr His Gly Ser Gln
 65 70 75 80
 Trp Tyr Val Ala His Asn Ala Ser Phe Asp Arg Arg Val Leu Pro Glu
 85 90 95
 Met Pro Gly Glu Trp Ile Cys Thr Met Lys Leu Ala Arg Arg Leu Trp
 100 105 110
 Pro Gly Ile Lys Tyr Ser Asn Met Ala Leu Tyr Lys Ser Arg Lys Leu
 115 120 125
 Ser Val Arg Thr Pro Glu Gly Leu His His His Arg Ala Leu Tyr Asp
 130 135 140
 Cys Tyr Ile Thr Ala Ala Leu Leu Ile Asp Ile Met Asn Thr Ser Gly
 145 150 155 160
 Trp Thr Pro Asp Asp Met Ala Thr Ile Thr Gly Arg Pro Ala Leu Leu
 165 170 175
 Thr Thr Phe Thr Phe Gly Lys Tyr Arg Gly Lys Pro Val Ser Glu Val
 180 185 190
 Ala Asp Lys Asp Pro Gly Tyr Leu Arg Trp Leu Tyr Asn Asn Leu Asp
 195 200 205
 Arg Met Ser Pro Glu Leu Arg Leu Thr Leu Lys His Tyr Leu Gly Glu
 210 215 220
 Ala
 225

<210> 7500

<211> 438

<212> PRT

<213> Enterobacter cloacae

<400> 7500

Leu Ser Thr Ile Leu Ile Cys Val Arg Leu Met Ala Leu Lys Thr Pro
 1 5 10 15
 Gln Ile Thr Pro Thr Arg Lys Ile Val Val Arg Thr Val Ser Gln Ala
 20 25 30
 Leu Pro Arg Ala His Tyr Gln Arg Cys Pro Gln Cys Asp Thr Leu Phe
 35 40 45
 Met Leu Pro Lys Met Lys Ser His Gln Ser Ala Phe Cys Pro Cys Cys
 50 55 60
 Asp Ala Lys Ile Arg Asp Gly Arg Asp Trp Ser Leu Thr Arg Leu Ala
 65 70 75 80
 Ala Met Ala Val Thr Met Leu Leu Met Pro Phe Ala Trp Thr Glu
 85 90 95
 Pro Leu Leu Lys Leu Tyr Leu Leu Gly Val Arg Ile Asp Ala Asn Val
 100 105 110
 Leu Gln Gly Ile Trp Gln Met Thr Arg Gln Gly Asp Pro Leu Thr Ala
 115 120 125
 Ala Met Val Leu Phe Cys Val Val Gly Ala Pro Leu Val Leu Val Ala
 130 135 140
 Ala Ile Ala Tyr Leu Trp Phe Gly Asn Ile Leu Gly Met Asn Leu Arg
 145 150 155 160
 Pro Val Leu Leu Met Leu Glu Lys Leu Lys Glu Trp Val Met Leu Asp
 165 170 175
 Ile Tyr Leu Val Gly Val Gly Val Ala Ser Ile Lys Val Gln Asp Tyr
 180 185 190
 Ala Phe Leu Gln Pro Gly Ile Gly Leu Phe Ala Phe Ile Ser Leu Val
 195 200 205
 Leu Leu Ser Ile Leu Thr Leu Ile His Leu Asn Val Glu Gln Leu Trp
 210 215 220
 Glu Arg Phe Tyr Pro Gln Arg Pro Ala Thr Arg Pro Asp Asp Asn Leu
 225 230 235 240

Arg Val Cys Leu Gly Cys His Tyr Thr Gly Phe Pro Asp Lys Arg Gly
 245 250 255
 Arg Cys Pro Arg Cys His Ile Pro Leu Arg Leu Arg Arg Asn Asn Ser
 260 265 270
 Leu Gln Lys Cys Trp Ala Ala Leu Ile Ala Ser Leu Val Phe Leu Phe
 275 280 285
 Pro Ala Asn Met Leu Pro Ile Ser Val Ile Tyr Val Asn Gly Ala Arg
 290 295 300
 Gln Glu Asp Thr Ile Leu Ser Gly Ile Ile Ser Leu Ala His Ser Asn
 305 310 315 320
 Val Gly Val Ala Ala Ile Val Phe Ile Ala Ser Ile Leu Val Pro Phe
 325 330 335
 Thr Lys Val Val Val Met Phe Thr Leu Leu Ile Ser Ile His Phe Lys
 340 345 350
 Cys Glu Gln Gly Leu Arg Thr Arg Ile Leu Leu Leu Arg Phe Val Thr
 355 360 365
 Trp Ile Gly Arg Trp Ser Met Leu Asp Leu Phe Val Ile Ser Leu Met
 370 375 380
 Met Ser Leu Ile Asn Arg Asp Gln Leu Leu Ala Phe Thr Met Gly Pro
 385 390 395 400
 Ala Ala Phe Tyr Phe Gly Ser Ala Val Ile Leu Thr Ile Leu Ala Val
 405 410 415
 Glu Trp Leu Asp Ser Arg Leu Leu Trp Asp Ala His Glu Ser Gly Asn
 420 425 430
 Ala Arg Phe Ala Asp
 435

<210> 7501

<211> 488

<212> PRT

<213> Enterobacter cloacae

<400> 7501

Met Phe Pro Cys Gly Val Pro Val Ala Gln Asn Ser Val Phe Leu Pro
 1 5 10 15
 Glu Gln Phe Leu Ala Gln Met Arg Glu Ala Leu Pro Ala His Leu Ser
 20 25 30
 Phe Asp Asp Phe Val Ala Ala Cys Gln Arg Pro Leu Arg Arg Ser Ile
 35 40 45
 Arg Val Asn Thr Leu Lys Thr Ser Val Gly Ala Phe Leu Asp Leu Val
 50 55 60
 Ser Pro Tyr Gly Trp Gln Leu Thr Pro Val Pro Trp Cys Glu Gly
 65 70 75 80
 Phe Trp Ile Glu Arg Asp Asp Glu Glu Ser Leu Pro Leu Gly Ser Thr
 85 90 95
 Ala Glu His Leu Ser Gly Leu Phe Tyr Ile Gln Glu Ala Ser Ser Met
 100 105 110
 Leu Pro Val Ala Ala Leu Phe Ala Asp Gly Asn Gln Pro Glu Arg Val
 115 120 125
 Met Asp Val Ala Ala Ala Pro Gly Ser Lys Thr Thr Gln Ile Ala Ala
 130 135 140
 Arg Met Asn Asn Arg Gly Ala Ile Leu Ala Asn Glu Phe Ser Ala Ser
 145 150 155 160
 Arg Val Lys Val Leu His Ala Asn Ile Ser Arg Cys Gly Ile His Asn
 165 170 175
 Val Ala Leu Thr His Phe Asp Gly Arg Val Phe Gly Ala Ala Leu Pro
 180 185 190
 Glu Ala Phe Asp Ala Ile Leu Leu Asp Ala Pro Cys Ser Gly Glu Gly
 195 200 205
 Val Val Arg Lys Asp Pro Asp Ala Leu Lys Asn Trp Ser Val Glu Ser
 210 215 220

Asn Leu Gln Ile Ala Ala Thr Gln Arg Glu Leu Ile Asp Ser Ala Phe
 225 230 235 240
 His Ala Leu Arg Pro Gly Gly Thr Leu Val Tyr Ser Thr Cys Thr Leu
 245 250 255
 Asn Arg Asp Glu Asn Glu Asp Val Cys Leu Trp Leu Lys Gln Arg Tyr
 260 265 270
 Val Asp Ala Val Glu Phe Leu Pro Leu Asp Thr Leu Phe Asp Ser Ala
 275 280 285
 Ser His Ala Ala Thr Pro Glu Gly Phe Leu His Val Phe Pro Gln Ile
 290 295 300
 Tyr Asp Cys Glu Gly Phe Phe Val Ala Arg Leu Arg Lys Thr Arg Ala
 305 310 315 320
 Val Asp Pro Leu Pro Ala Pro Lys Phe Lys Val Gly Asn Phe Pro Phe
 325 330 335
 Ala Pro Val Lys Gly Arg Glu Ala Ala Gln Ala Ala Ala Ser
 340 345 350
 Lys Val Gly Leu His Trp Asp Glu Ser Leu Arg Leu Trp Met Arg Asp
 355 360 365
 Lys Glu Leu Trp Leu Phe Pro Val Asn Ile Glu Pro Leu Ile Gly Lys
 370 375 380
 Val Arg Phe Ser Arg Leu Gly Ile Arg Leu Ala Glu Ile His Asn Lys
 385 390 395 400
 Gly Tyr Arg Trp Gln His Glu Ala Val Ile Ala Leu Ala Gly Ser Glu
 405 410 415
 Asn Thr Phe Ala Leu Thr His Gln Glu Ala Glu Glu Trp Tyr Arg Gly
 420 425 430
 Arg Asp Val Tyr Pro Glu Asp Gly Pro Leu Gln Asp Glu Val Ile Val
 435 440 445
 Thr Tyr Gln Gly Tyr Pro Leu Gly Leu Ala Lys Lys Val Gly Ser Arg
 450 455 460
 Leu Lys Asn Ser Tyr Pro Arg Glu Leu Val Arg Asp Gly Arg Leu Phe
 465 470 475 480
 Thr Gly Asn Asn Arg Ser Ala
 485

<210> 7502

<211> 425

<212> PRT

<213> Enterobacter cloacae

<400> 7502

Arg Ser Ala Asn Phe Pro Leu Val Arg Leu Ser Pro Tyr Lys Thr Asp
 1 5 10 15
 Ala Asn Val Phe Val Tyr Thr Thr Arg Ile Phe Phe Arg Gly Ile Phe
 20 25 30
 Met Thr Leu Leu Gly Thr Ala Leu Arg Pro Ala Ala Thr Arg Val Met
 35 40 45
 Leu Leu Gly Ser Gly Glu Leu Gly Lys Glu Val Ala Ile Glu Cys Gln
 50 55 60
 Arg Leu Gly Val Glu Val Ile Ala Val Asp Arg Tyr Ala Asn Ala Pro
 65 70 75 80
 Ala Met His Val Ala His Arg Ser His Val Ile Asp Met Leu Asp Gly
 85 90 95
 Asn Ala Leu Arg Ala Leu Ile Ala Glu Glu Lys Pro Asp Phe Val Val
 100 105 110
 Pro Glu Ile Glu Ala Ile Ala Thr Glu Met Leu Val Ala Leu Glu Gln
 115 120 125
 Glu Gly Gln Arg Val Val Pro Cys Ala Thr Ala Ala Lys Leu Thr Met
 130 135 140
 Asn Arg Glu Gly Ile Arg Arg Leu Ala Ala Glu Glu Leu Gln Leu Pro
 145 150 155 160

Thr Ser Ser Tyr Arg Phe Ala Gly Asp Lys Ala Ala Phe Leu Gln Ala
 165 170 175
 Val Glu Glu Ile Gly Tyr Pro Cys Ile Ile Lys Pro Val Met Ser Ser
 180 185 190
 Ser Gly Lys Gly Gln Ser Phe Ile Arg Asp Ser Ser Thr Leu Asp Gln
 195 200 205
 Ala Trp Asp Tyr Ala Gln Gln Gly Gly Arg Ala Gly Ala Gly Arg Val
 210 215 220
 Ile Val Glu Gly Val Val Lys Phe Asp Phe Glu Ile Thr Leu Leu Thr
 225 230 235 240
 Val Ser Ala Val Asp Gly Val Tyr Phe Cys Asp Pro Ile Gly His Arg
 245 250 255
 Gln Glu Asp Gly Asp Tyr Arg Glu Ser Trp Gln Pro Gln Gln Met Ser
 260 265 270
 Ala Leu Ala Leu Ala Arg Ala Gln Glu Ile Ala Arg Lys Thr Val Leu
 275 280 285
 Ala Leu Gly Gly Tyr Gly Leu Phe Gly Val Glu Leu Phe Val Cys Gly
 290 295 300
 Asp Glu Val Ile Phe Ser Glu Val Ser Pro Arg Pro His Asp Thr Gly
 305 310 315 320
 Met Val Thr Leu Ile Ser Gln Asp Leu Ser Glu Phe Ala Leu His Val
 325 330 335
 Arg Ala Phe Leu Gly Leu Pro Val Gly Gly Ile Arg Gln Tyr Gly Pro
 340 345 350
 Ala Ala Ser Ala Val Ile Leu Pro Gln Leu Thr Ser Gln Asn Val Thr
 355 360 365
 Phe Asp Asn Val Glu Gly Ala Val Gly Ala Gly Leu Gln Val Arg Leu
 370 375 380
 Phe Gly Lys Pro Glu Ile Asp Gly Ser Arg Arg Leu Gly Val Ala Leu
 385 390 395 400
 Ala Thr Gly Glu Asn Val Asp Glu Ala Val Ala Arg Ala Lys Ile Ala
 405 410 415
 Ala Thr Ala Val Lys Val Thr Gly
 420 425

<210> 7503

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 7503

Cys Thr Gly Ser Gln Ser Leu Arg Arg Pro Gly Glu Thr Gln Leu Tyr
 1 5 10 15
 Pro Arg Gln Asn Gly Ser Trp Arg Ser Gly Ala Val Ile Leu Leu Pro
 20 25 30
 Pro Gly Asp Glu Cys Leu Pro Gly Ser Trp Ser Val Leu Pro Gln Trp
 35 40 45
 Arg Lys Ala Leu Arg Ala Gly Leu Pro Ala Gln Gly Gln Pro Ala Ser
 50 55 60
 Gln Trp Gln Trp Pro Gln Phe Gln Ala Pro Arg Asn Pro Val Phe Pro
 65 70 75 80
 Arg Gln Leu Thr Pro Ala Gly His Cys Arg Gln Ala Tyr Arg
 85 90 95

<210> 7504

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 7504

Asn Ser Met Leu Ala Leu Ser Tyr Val Ala Leu Leu Phe Ile His Phe

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1           5           10           15
Ala Ala Leu Met Leu Leu Phe Gly Asn Ala Leu Tyr Ser Val Trp Phe
20           25           30
Ala Pro Ser Ser Leu Gln Arg Leu Met Thr Arg Arg Phe Gln Arg Gln
35           40           45
Gln Lys Leu Ala Ala Leu Ile Ser Leu Met Ala Ala Leu Leu Met Phe
50           55           60
Gly Leu Gln Ser Gly Leu Met Gly Asn Gly Trp Ser Asp Val Ile Arg
65           70           75           80
Pro Ala Val Trp Arg Ser Val Leu Gly Thr Gln Phe Gly Gly Val Trp
85           90           95
Leu Trp Gln Met Val Leu Ala Ala Val Thr Ala Gly Ala Ala Trp Leu
100          105          110
Thr Pro Gln Lys Gly Ser Arg Leu Leu Leu Val Met Gly Gln Leu
115          120          125
Val Leu Leu Ala Gly Val Gly His Ala Ala Met Asn Gly Gly Ala Pro
130          135          140
Gly Ala Leu His Arg Leu Asn His Ala Leu His Leu Leu Cys Ala Ala
145          150          155          160
Thr Trp Val Gly Gly Leu Leu Pro Leu Leu Phe Cys Met Arg Leu Ala
165          170          175
Lys Gly Arg Trp Gln Pro Ala Ala Ile Phe Thr Met Met Arg Phe Ser
180          185          190
Arg Val Gly His Tyr Ala Val Ala Gly Val Leu Leu Thr Gly Ile Ile
195          200          205
Asn Thr Leu Phe Ile Val Gly Ile Asn Val Pro Trp His Ala Pro Tyr
210          215          220
Val Gln Leu Leu Leu Lys Cys Ala Leu Val Met Met Met Val Ala
225          230          235          240
Ile Ala Leu Ala Asn Arg Tyr Phe Leu Val Pro Arg Phe Arg Pro Glu
245          250          255
Ala Gly Arg Glu Gln Gln Ile Phe Ile Arg Met Thr Gln Ala Glu Val
260          265          270
Val Leu Gly Ala Leu Val Leu Ala Val Ser Leu Phe Ala Thr Trp
275          280          285
Glu Pro Phe
290

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<210> 7505

<211> 229

<212> PRT

<213> *Enterobacter cloacae*

<400> 7505

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Ala Val Lys Val Thr His Cys Tyr Val Arg Lys Asn Met Ser Gly Trp
1           5           10           15
Met Asn Gln Leu Gln Ser Leu Leu Gly Gln Lys Gly Ser Ser Ser Gly
20           25           30
Glu Gln Gly Leu Ser Lys Leu Leu Val Pro Gly Ala Leu Gly Gly Leu
35           40           45
Ala Gly Leu Leu Val Ala Asn Lys Ser Ser Arg Lys Leu Leu Thr Lys
50           55           60
Tyr Gly Thr Gly Ala Leu Leu Ala Gly Gly Gly Ala Ile Ala Gly Ser
65           70           75           80
Val Leu Trp Asn Lys Tyr Lys Asp Lys Val Arg Ser Ala His Gln Asp
85           90           95
Glu Pro Gln Tyr Gly Lys Gln Val Ser Pro Leu Asp Leu Arg Thr Glu
100          105          110
Arg Leu Ile Leu Ala Leu Val Phe Ala Ala Lys Ser Asp Gly His Ile
115          120          125
Asp Ala Ser Glu Arg Ala Ala Ile Glu Gln Gln Met Arg Glu Ala Gly

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130 135 140
 Val Glu Glu Gln Gly Arg Ala Leu Val Ala Gln Ala Ile Glu Gln Pro
 145 150 155 160
 Leu Asp Pro Gln Arg Leu Ala Gln Gly Val Lys Asn Glu Glu Glu Ala
 165 170 175
 Leu Glu Leu Tyr Phe Leu Ser Cys Ala Ala Ile Asp Ile Asp His Phe
 180 185 190
 Met Glu Arg Ser Tyr Leu Asn Ala Leu Gly Asp Ala Leu Lys Ile Pro
 195 200 205
 Gln Asp Val Arg Glu Gly Ile Glu Gln Asp Ile Gln Gln Gln Lys Gln
 210 215 220
 Thr Leu Ala Gly
 225

<210> 7506

<211> 701

<212> PRT

<213> Enterobacter cloacae

<400> 7506

Asp Val Lys Arg Lys Ser Lys Asn Ala Met Pro Pro Lys Ala Arg Arg
 1 5 10 15
 Thr Pro Tyr Ala Ile Thr Thr His Gly Asp Thr Arg Ile Asp Asn Tyr
 20 25 30
 Tyr Trp Leu Arg Asp Asp Ser Arg Ser Arg Pro Glu Val Leu Asp Tyr
 35 40 45
 Leu His Glu Glu Asn Asp Tyr Gly Arg Gln Val Met Ala Ser Gln Gln
 50 55 60
 Ala Leu Gln Asp Gln Leu Leu Asn Glu Met Val Gln Arg Ile Pro Gln
 65 70 75 80
 Arg Asp Val Ser Ala Pro Trp Cys Lys Asn Gly Tyr Arg Tyr Arg His
 85 90 95
 Ile Tyr Glu Pro Gly Asn Glu Tyr Pro Ile Tyr Gln Arg Gln Ser Val
 100 105 110
 Leu Ser Ala Glu Trp Asp Glu Trp Glu Ile Leu Leu Asp Ala Asn Lys
 115 120 125
 Arg Ala Ala His Ser Glu Phe Tyr Thr Leu Gly Gly Met Ser Ile Ser
 130 135 140
 Pro Asp Asn Ala Ile Met Ala Leu Ala Glu Asp Tyr Leu Ser Arg Arg
 145 150 155 160
 Gln Tyr Gly Leu Arg Phe Arg Asn Leu Glu Thr Gly Asn Trp Tyr Pro
 165 170 175
 Glu Met Leu Asp Asn Val Ser Pro Asp Phe Val Trp Gly Asn Asp Ser
 180 185 190
 Glu Thr Val Tyr Tyr Val Lys Lys His Ala Ser Thr Leu Leu Pro Tyr
 195 200 205
 Gln Val Trp Arg His Thr Val Gly Thr Asp Ser Ala Asp Asp Glu Leu
 210 215 220
 Val Tyr Glu Glu Lys Asp Glu Thr Phe Tyr Val Ser Leu His Lys Thr
 225 230 235 240
 Ser Ser Arg His Tyr Val Ile Ile Phe Leu Ser Ser Ala Thr Thr Ser
 245 250 255
 Glu Val Leu Leu Asp Ala Glu Leu Pro Asp Ala Gln Pro Leu Cys
 260 265 270
 Phe Leu Pro Arg Arg Lys Asp His Glu Tyr Ser Leu Asp His Phe Gln
 275 280 285
 His Ser Phe Tyr Leu Arg Ser Asn Arg Glu Gly Lys Asn Phe Gly Leu
 290 295 300
 Tyr Lys Thr Lys Val Arg Asp Glu Arg Lys Trp Glu Val Leu Ile Pro
 305 310 315 320
 Ala Arg Asp Gln Val Met Leu Glu Gly Phe Thr Leu Phe Thr Asp Trp

325 335
 Leu Val Val Glu Glu Arg Gln Arg Gly Leu Thr Ser Ile Arg Gln Ile
 340 345 350
 Asn Arg Lys Asn Arg Glu Val Val Gly Ile Ala Phe Asp Asp Pro Ala
 355 360 365
 Tyr Val Thr Trp Ile Gly Phe Asn Pro Glu Pro Glu Ser Ser Arg Leu
 370 375 380
 Arg Tyr Gly Tyr Ser Ser Met Thr Thr Pro Asp Thr Leu Phe Glu Leu
 385 390 395 400
 Asp Met Asp Thr Gly Gln Arg Gln Val Ile Lys Gln Ala Glu Val Arg
 405 410 415
 Gly Phe Glu Ser Glu Asn Tyr Arg Ser Glu His Leu Trp Val Thr Ala
 420 425 430
 Arg Asp Gly Val Glu Val Pro Val Ser Leu Val Tyr His Lys Ala His
 435 440 445
 Phe Asn Lys Gly Lys Asn Pro Ile Leu Val Tyr Gly Tyr Gly Ser Tyr
 450 455 460
 Gly Ser Ser Met Asp Ala Asp Phe Ser Ser Ser Arg Leu Ser Leu Leu
 465 470 475 480
 Asp Arg Gly Phe Val Tyr Ala Ile Ala His Ile Arg Gly Gly Gly Glu
 485 490 495
 Leu Gly Gln His Trp Tyr Glu Asp Gly Lys Phe Leu Lys Lys Lys Asn
 500 505 510
 Thr Phe Asn Asp Tyr Leu Asp Val Cys Asp Ala Leu Ile Ala Gln Gly
 515 520 525
 Tyr Gly Asp Pro Gln Leu Cys Phe Gly Met Gly Gly Ser Ala Gly Gly
 530 535 540
 Met Leu Met Gly Ala Val Ile Asn Gln Arg Pro Glu Leu Phe Lys Gly
 545 550 555 560
 Val Ile Ala Gln Val Pro Phe Val Asp Val Val Thr Thr Met Leu Asp
 565 570 575
 Glu Ser Ile Pro Leu Thr Thr Gly Glu Phe Glu Glu Trp Gly Asn Pro
 580 585 590
 Gln Asp Glu Thr Tyr Tyr Arg Tyr Met Lys Glu Tyr Ser Pro Tyr Asp
 595 600 605
 Asn Val Glu Ala Lys Ala Tyr Pro His Met Leu Val Thr Thr Gly Leu
 610 615 620
 His Asp Ser Gln Val Gln Tyr Trp Glu Pro Ala Lys Trp Val Ala Lys
 625 630 635 640
 Leu Arg Glu Leu Lys Thr Asp Asp Asn Leu Leu Leu Cys Thr Asp
 645 650 655
 Met Asp Ser Gly His Gly Gly Lys Ser Gly Arg Phe Lys Ser Tyr Glu
 660 665 670
 Gly Val Ala Leu Glu Tyr Ala Phe Leu Ile Gly Leu Ala Gln Asp Thr
 675 680 685
 Leu Pro Gly Arg Ala Gly Thr Gln Ala Ser Pro Lys
 690 695 700

<210> 7507

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 7507

His Met Lys Lys Thr Leu Leu Ser Leu Leu Leu Thr Cys Ala Ser
 1 5 10 15
 Ser Ala Leu Ala Ala Pro Gln Val Ile Thr Val Ser Arg Phe Glu Val
 20 25 30
 Gly Lys Asp Asn Trp Ala Phe Asn Arg Glu Glu Val Met Leu Thr Cys
 35 40 45
 Arg Pro Gly Asn Ala Leu Tyr Val Ile Asn Pro Ser Thr Leu Val Gln

50 55 60
 Tyr Pro Leu Asn Asp Val Ala Glu Gln Gln Val Ala Ser Gly Lys Ser
 65 70 75 80
 Asn Gly Gln Pro Val Ser Val Ile Gln Val Asp Asp Pro Ala Asn Pro
 85 90 95
 Gly Gln Lys Lys Ser Leu Ala Pro Phe Ile Glu Arg Ala Glu Lys Leu
 100 105 110
 Cys

<210> 7508

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 7508

Ile Met Asn Lys Thr Glu Phe Tyr Ala Asp Leu Asn Arg Asp Phe Lys
 1 5 10 15
 Ala Leu Met Ala Gly Glu Thr Ser Phe Leu Ala Thr Leu Ala Asn Thr
 20 25 30
 Ser Ala Leu Leu Phe Glu Arg Leu Ser Asp Val Asn Trp Ala Gly Phe
 35 40 45
 Tyr Leu Leu Glu Gly Asp Thr Leu Val Leu Gly Pro Phe Gln Gly Lys
 50 55 60
 Leu Ala Cys Val Arg Ile Pro Val Gly Arg Gly Val Cys Gly Thr Ala
 65 70 75 80
 Val Ala Thr Arg Gln Val Gln Arg Val Glu Asp Val His Ala Phe Asp
 85 90 95
 Gly His Ile Ala Cys Asp Ala Ser Ser Asn Ser Glu Ile Val Leu Pro
 100 105 110
 Leu Val Val Lys Asn Gln Ile Ile Gly Val Leu Asp Ile Asp Ser Thr
 115 120 125
 Val Phe Ser Arg Phe Thr Ala Glu Asp Glu Gln Gly Leu Arg Ala Leu
 130 135 140
 Ala Ala Asn Leu Glu Asn Val Leu Ala Asp Thr Asp Tyr His Lys Phe
 145 150 155 160
 Phe Ala Ser Val Ala Gly
 165

<210> 7509

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 7509

Ser Gly Asn Phe Met Glu Asn Gln Pro Lys Leu Asn Ser Ser Lys Glu
 1 5 10 15
 Val Ile Ala Phe Leu Ala Glu Arg Phe Pro Gln Cys Phe Ser Ala Glu
 20 25 30
 Gly Glu Ala Arg Pro Leu Lys Val Gly Ile Phe Gln Asp Leu Val Ala
 35 40 45
 Arg Val Glu Gly Glu Met Asn Leu Ser Lys Thr Gln Leu Arg Ser Ala
 50 55 60
 Leu Arg Leu Tyr Thr Ser Ser Trp Arg Tyr Leu Tyr Gly Ile Lys Pro
 65 70 75 80
 Gly Ala Thr Arg Val Asp Leu Asp Gly Asn Pro Cys Gly Glu Leu Asp
 85 90 95
 Glu Gln His Val Glu His Ala Arg Lys Gln Leu Glu Glu Ala Lys Ala
 100 105 110
 Arg Val Gln Ala Gln Arg Ala Glu Gln Gln Ala Lys Lys Arg Glu Ala
 115 120 125

Ala Ala Ala Asn Gly Gln Glu Asp Ala Pro Arg Arg Glu Arg Lys Pro
 130 135 140
 Arg Pro Ala Pro Arg Arg Thr Glu Asn Asn Asp Arg Lys Pro Arg Ala
 145 150 155 160
 Val Phe Thr His Gly Pro Gly Arg Thr Ala Ile Ala
 165 170

<210> 7510

<211> 130

<212> PRT

<213> *Enterobacter cloacae*

<400> 7510

Arg Lys Gly Met Ile Val Met His Phe Thr Pro Ser Arg Val Ala Cys
 1 5 10 15
 Ala Leu Ala Phe Leu Leu Ser Ser Ala Thr Ala Thr Ser Ala Leu Ala
 20 25 30
 His Ala His Leu Lys Gln Gln Ser Pro Gln Glu Asn Thr Val Ala Val
 35 40 45
 Ala Pro Glu Val Ile Thr Leu Asn Phe Ser Glu Gly Ile Glu Pro Ala
 50 55 60
 Phe Ser Gly Val Val Val Thr Asp Ala Gln Gln His Lys Ile Gln Thr
 65 70 75 80
 Gly Ala Val Lys Arg Asp Glu Lys Asp Asn Ala Lys Leu Ile Val Pro
 85 90 95
 Leu Glu Lys Pro Leu Thr Thr Gly Thr Tyr Thr Val Asp Trp His Val
 100 105 110
 Val Ser Val Asp Gly His Lys Thr Lys Gly Ser Tyr His Phe Ser Val
 115 120 125
 Lys
 130

<210> 7511

<211> 259

<212> PRT

<213> *Enterobacter cloacae*

<400> 7511

Arg Pro Gly Asn Lys Gly Leu Ile Ala Gln Arg Ser Leu Phe Pro Ala
 1 5 10 15
 Gly Leu Trp Phe Val Trp Ile Arg Glu Ile Arg Arg Gln Phe Met Thr
 20 25 30
 Phe Ser Val Ala Ala Ile Leu Leu Thr Gly Gly Val Ile Tyr Gln Lys
 35 40 45
 Ile Glu Gly Glu His Trp Arg His Val Trp Val Ala Ser Asp Ile His
 50 55 60
 Gly Cys Tyr Gln Trp Leu Met Asp Glu Leu Lys Arg Arg His Phe Asn
 65 70 75 80
 Pro Asp Thr Asp Leu Leu Ile Ser Val Gly Asp Ile Ile Asp Arg Gly
 85 90 95
 Pro Asp Ser Val Lys Cys Leu Gln Leu Met Gln Glu Asn Trp Phe Tyr
 100 105 110
 Ala Ile Arg Gly Asn His Glu Gln Met Ala Leu Asp Ala Leu Ile Asn
 115 120 125
 Asn Asp Phe Ser Leu Trp Ser Ile Asn Gly Gly Asn Trp Phe Thr Gly
 130 135 140
 Leu Lys Asp Ala Gln Gln Lys Gln Ala Lys Gly Leu Leu Asp Ala Cys
 145 150 155 160
 Arg Asp Leu Pro His Ile Ile Glu Ile Thr Cys Lys Asn Gly Leu Asn
 165 170 175
 Val Ile Ala His Ala Asp Tyr Pro Ser Ala Glu Tyr Gly Trp His Lys

180	185	190
Pro Val Asp Ala Gln Arg Val	Leu Trp Asp Arg Asp Arg	Leu Met Gly
195	200	205
Phe Met Val Gly Lys Gly Gln Gly	Ile Ser Gly Ala Asp His Phe Trp	
210	215	220
Phe Gly His Thr Pro Val Asp	Lys Arg Tyr Asp Phe Asn Asn Leu His	
225	230	235
Tyr Ile Asp Thr Gly Ala Val	Phe Gly Gly Phe Leu Thr Leu Ala Gln	
245	250	255
Leu Gln		

<210> 7512

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 7512

Glu Gln Gly Glu Arg Ala Ile Met Asn	Ile Ser Asp Ile Ile Gln Leu
1	5
Val Val Leu Cys Ala Leu Ile Phe Leu	Pro Leu Gly Tyr Tyr Ala Arg
20	25
His Ser Leu Arg Arg Ile Arg Asp Thr	Val Arg Leu Leu Phe Val Lys
35	40
Pro Arg Tyr Ile Lys Pro Ala Gly Thr	Leu Ser Arg Ala Pro Asn Val
50	55
Lys Ala Asn Arg Lys His Asp	
65	70

<210> 7513

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 7513

Lys Phe Asp Glu Lys Arg Asp Thr Val	Asp Ser Ile Phe Ser Ile Gly
1	5
Ile Gln Ser Leu Trp Asp Glu Leu Arg	His Met Pro Val Gly Gly Val
20	25
Trp Trp Val Asn Thr Asp Arg Asn Glu	Asp Ala Ile Ser Leu Val Asn
35	40
Gln Thr Ile Ala Ala Gln Gly Lys Asp	Ser Arg Val Ala Ile Ile Thr
50	55
Met Gly Asp Glu Pro Lys Ser Ile Ile	Arg Leu Asp Ser Asn Arg Gly
65	70
Pro Gln Thr Val Arg Leu Phe Ser Met	Pro Ala Glu Ala Asp Ser Leu
85	90
Tyr Phe Leu Pro Arg Asp Ile Gln Cys	Ser Ile Val Pro Glu His Tyr
100	105
Leu Leu Val Leu Lys Cys Ser Asn Asn	Gly Leu Gln Asn Ile Pro Ser
115	120
Glu Lys Leu Leu Lys Trp Leu Glu Arg	Ile Asn Arg Trp Ala Lys Asn
130	135
Gln Asn Cys Thr Leu Leu Val Val Asn	Pro Gly Ser Asn Asn Asp Lys
145	150
Leu Phe Ser Leu Leu Met Ser Glu Tyr	Arg Ser Leu Tyr Gly Leu Ala
165	170
Ser Ile Arg Val Gln Thr Asp Ser His	Leu Tyr Asp Val Ala Phe Trp
180	185
Cys Asn Glu Lys Gly Val Ser Ser Arg	Gln Gln Leu Thr Leu Lys His
195	200
	205

Val Gly Asp Glu Trp His Leu Ala Gln Gln Glu Glu Thr Val Val Gln
 210 215 220
 Pro Arg Ser Asp Glu Lys Arg Val Leu Ser His Ile Ala Val Leu Glu
 225 230 235 240
 Gly Ala Pro Ala Leu Ser Glu His Trp Ser Leu Phe Asp Thr Asn Glu
 245 250 255
 Ala Leu Phe Asp Glu Ala Arg Thr Thr Gln Ala Ala Thr Ile Ile Phe
 260 265 270
 Ser Leu Ile Gln Asn Asn Gln Ile Glu Thr Leu Ala Arg His Ile His
 275 280 285
 Thr Leu Arg Arg Gln Arg Gly Ser Ala Leu Lys Ile Val Val Arg Glu
 290 295 300
 Asn Asn Thr Ser Leu Arg Ala Thr Asp Glu Arg Leu Leu Leu Gly Cys
 305 310 315 320
 Gly Ala Asn Met Val Ile Pro Trp Asn Ala Pro Leu Ser Arg Cys Leu
 325 330 335
 Thr Leu Ile Glu Ser Ile Gln Gly Gln Gln Phe Asn Arg His Val Pro
 340 345 350
 Glu Asp Ile Ser Thr Leu Leu Ser Met Thr Gln Pro Met Lys Leu Arg
 355 360 365
 Gly Tyr Gln Lys Trp Asp Thr Phe Cys Asp Ala Val Gly Asn Met Met
 370 375 380
 Ser Asn Thr Leu Leu Pro Ala Asp Gly Lys Gly Val Met Val Ala Leu
 385 390 395 400
 Arg Pro Val Pro Gly Ile Arg Val Glu Gln Ala Leu Thr Leu Cys Arg
 405 410 415
 Pro Asn Arg Ile Gly Asp Ile Met Thr Ile Gly Asp Asn Arg Leu Val
 420 425 430
 Leu Phe Leu Ser Phe Cys Arg Val Asn Asp Leu Asp Thr Ala Leu Asn
 435 440 445
 His Ile Phe Pro Leu Pro Thr Gly Asp Ile Phe Ser Asn Arg Met Val
 450 455 460
 Trp Phe Glu Asp Asn Leu Ile Ser Ala Glu Leu Val Gln Met Arg Ala
 465 470 475 480
 Leu Ala Pro Glu Lys Trp Ala Lys Pro Leu Pro Val Thr Ser Gly Ala
 485 490 495
 Lys Pro Val Leu Asn Ala Lys His Asp Gly His Val Trp Arg Arg Val
 500 505 510
 Pro Glu Pro Leu Arg Leu Leu Asp Glu Asn Lys Glu Ser Ala Pro Leu
 515 520 525

<210> 7514

<211> 571

<212> PRT

<213> Enterobacter cloacae

<400> 7514

Val Ala Leu Arg Thr Ser Arg Gln Thr Glu Asn Met Thr Asn Ser Thr
 1 5 10 15
 Tyr Thr Ser Ser Ala Pro Ser Pro Leu Trp Gln Tyr Trp Arg Gly Leu
 20 25 30
 Ser Gly Trp Asn Phe Tyr Phe Leu Val Lys Phe Gly Leu Leu Trp Ala
 35 40 45
 Gly Tyr Leu Asn Phe His Pro Leu Leu Asn Leu Val Phe Met Ala Phe
 50 55 60
 Leu Leu Met Pro Ile Pro Asn Leu Arg Leu His Arg Ile Arg His Trp
 65 70 75 80
 Val Ala Ile Pro Ile Gly Phe Ala Leu Phe Trp His Asp Thr Trp Leu
 85 90 95

Pro Gly Pro Glu Ser Ile Met Ser Gln Gly Ser Gln Val Ala Gly Phe
 100 105 110
 Ser Ala Asp Tyr Met Leu Asp Leu Val Glu Arg Phe Ile Asn Trp Gln
 115 120 125
 Met Ile Gly Ala Val Phe Val Leu Leu Val Ala Trp Leu Phe Leu Ser
 130 135 140
 Gln Trp Ile Arg Val Thr Val Phe Val Val Ala Ile Met Ile Trp Leu
 145 150 155 160
 Asn Val Leu Thr Leu Thr Gly Pro Ser Phe Ser Leu Trp Pro Ala Gly
 165 170 175
 Gln Pro Thr Thr Thr Val Thr Thr Thr Gly Gly Ser Ala Ala Thr
 180 185 190
 Val Ala Thr Ala Gly Asp Thr Pro Val Val Gly Asp Ile Pro Ala Gln
 195 200 205
 Thr Ala Pro Pro Thr Ser Thr Asn Leu Asn Ala Trp Leu Ser Ser Phe
 210 215 220
 Tyr Ala Ala Glu Asp Lys Arg Gln Thr Lys Phe Pro Asp Ala Leu Pro
 225 230 235 240
 Ala Asp Ala Gln Pro Phe Glu Leu Leu Val Ile Asn Ile Cys Ser Leu
 245 250 255
 Ser Trp Ala Asp Val Asp Ala Ala Gly Leu Met Ser His Pro Leu Trp
 260 265 270
 Ser His Phe Asp Ile Gln Phe Lys Asp Phe Asn Ser Ala Thr Ser Tyr
 275 280 285
 Ser Gly Pro Ala Ala Ile Arg Leu Leu Arg Ala Ser Cys Gly Gln Pro
 290 295 300
 Ser His Lys Asn Leu Tyr Gln Pro Ala Ala Asn Gln Cys Tyr Leu Phe
 305 310 315 320
 Asp Asn Leu Ala Lys Lys Leu Gly Phe Thr Gln His Leu Met Met Gly His
 325 330 335
 Asn Gly Gln Phe Gly Asn Phe Leu Lys Glu Val Arg Glu Gln Gly Gly
 340 345 350
 Met Gln Ala Pro Leu Met Asp Gln Lys Gly Leu Pro Val Thr Leu Leu
 355 360 365
 Gly Phe Asp Gly Ser Pro Val Tyr Asp Asp Thr Ala Val Leu Gln Arg
 370 375 380
 Trp Leu Asp Thr Val Gly Lys Glu Glu Gly Thr Arg Ser Ala Thr Phe
 385 390 395 400
 Tyr Asn Thr Leu Pro Leu His Asp Gly Asn His Tyr Pro Gly Val Ser
 405 410 415
 Lys Thr Ala Asp Tyr Lys Ala Arg Ala Gln Lys Phe Phe Asp Glu Leu
 420 425 430
 Asn Ala Phe Phe Asn Glu Leu Glu Lys Ser Gly Arg Lys Val Met Val
 435 440 445
 Val Val Val Pro Glu His Gly Gly Ala Leu Lys Gly Asp Arg Met Gln
 450 455 460
 Val Ser Gly Leu Arg Asp Ile Pro Ser Pro Ser Ile Thr Asn Val Pro
 465 470 475 480
 Ala Gly Ile Lys Phe Phe Gly Met Lys Ala Pro His Gln Gly Ala Pro
 485 490 495
 Val Glu Ile Thr Gln Pro Ser Ser Tyr Leu Ala Ile Ser Glu Leu Val
 500 505 510
 Ala Arg Ala Val Asp Gly Lys Leu Phe Val Glu Asp Ser Val Asn Trp
 515 520 525
 Asp Gln Leu Thr Ser Gly Leu Pro Gln Thr Ala Glu Val Ser Glu Asn
 530 535 540
 Ala Asn Ala Val Val Ile Gln Tyr Gln Asn Lys Pro Tyr Val Arg Leu
 545 550 555 560
 Asn Ala Gly Asp Trp Val Pro Tyr Pro Gln
 565 570

<210> 7515

<211> 338

<212> PRT

<213> *Enterobacter cloacae*

<400> 7515

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Ser Ser Leu Tyr Trp Pro Asn Gly Arg Ser Glu Cys Arg Gly Asp His
1      5      10      15
Cys Val Lys Asp Asn Thr Ile Pro Leu Thr Leu Ile Gly Ile Leu Ala
20      25      30
Asp Gly Glu Phe His Ser Gly Glu Gln Leu Gly Glu Gln Leu Gly Met
35      40      45
Ser Arg Ala Ala Ile Asn Lys His Ile Gln Thr Leu Arg Asp Trp Gly
50      55      60
Val Asp Val Phe Thr Val Pro Gly Lys Gly Tyr Ser Leu Pro Glu Pro
65      70      75      80
Ile Gln Leu Leu Asn Glu Glu Ile Ile Arg Ser Gln Ile Gly His Gly
85      90      95
Asn Val Ala Val Leu Pro Val Ile Asp Ser Thr Asn Gln Tyr Leu Leu
100     105     110
Asp Arg Leu Ser Glu Leu Lys Ser Gly Asp Ala Cys Val Ala Glu Tyr
115     120     125
Gln Gln Ala Gly Arg Gly Arg Arg Gly Arg Lys Trp Phe Ser Pro Phe
130     135     140
Gly Ala Asn Leu Tyr Leu Ser Met Tyr Trp Arg Leu Ala Gln Gly Pro
145     150     155     160
Ala Ala Ala Ile Gly Leu Ser Leu Val Ile Gly Ile Val Met Ala Glu
165     170     175
Val Leu His Asp Leu Gly Ala Asp Gln Val Arg Val Lys Trp Pro Asn
180     185     190
Asp Leu Tyr Leu Asn Asp Arg Lys Leu Ala Gly Ile Leu Val Glu Leu
195     200     205
Thr Gly Lys Thr Gly Asp Ala Ala Gln Ile Val Ile Gly Ala Gly Leu
210     215     220
Asn Met Val Met Arg Asn Val Gln Asn Asp Val Val Asn Gln Ala Trp
225     230     235     240
Thr Asn Leu Gln Glu Ala Gly Ile Thr Ile Asp Arg Asn Thr Leu Ala
245     250     255
Val Arg Met Ile Asn Glu Leu Arg Ser Ser Leu Thr Leu Phe Glu Gln
260     265     270
Glu Gly Leu Ala Pro Phe Leu Ser Arg Trp Glu Lys Leu Asp Asn Phe
275     280     285
Ile Asn Arg Pro Val Lys Leu Leu Ile Gly Asp Lys Glu Ile Tyr Gly
290     295     300
Thr Ser Arg Gly Ile Asp Ala Gln Gly Ala Leu Leu Leu Glu Gln Asp
305     310     315     320
Gly Val Ile Lys Pro Trp Val Gly Gly Glu Ile Ser Leu Arg Ser Ala
325     330     335
Glu

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<210> 7516

<211> 881

<212> PRT

<213> *Enterobacter cloacae*

<400> 7516

```

Thr Ala Gly Ala Cys Arg Glu Phe Ser Met Ser Arg Leu Thr Asn Trp
1      5      10      15
Leu Leu Ile Pro Pro Val Ser Ser Arg Leu Ser Glu Arg Tyr Arg His
20      25      30

```

Tyr Arg Tyr His Gly Ala Ser Ser Leu Ser Ala Ala Leu Gly Cys Leu
 35 40 45
 Trp Met Ile Leu Ala Trp Met Phe Ile Pro Leu Glu His Pro Arg Trp
 50 55 60
 Gln Arg Ile Arg Ala Arg His Gly Glu Leu Tyr Pro His Ile Asn Pro
 65 70 75 80
 Asp Lys Pro Arg Pro Leu Asp Pro Ala Arg Tyr Ala Ile Gln Ser Ile
 85 90 95
 Trp Leu Leu Ala Thr Ser Thr Gly Ala Glu Lys Lys Thr Ser Arg Trp
 100 105 110
 Arg Ser Phe Asp Arg Val Gln Asn Leu Arg Glu His Tyr His Gln Trp
 115 120 125
 Leu Asp Arg Leu Pro Asp Arg Val Gly Asp Lys Thr Gly His Leu Asp
 130 135 140
 Asn Gln Lys Glu Leu Gly His Leu His Pro Gly Leu Arg Arg Phe Ile
 145 150 155 160
 Leu Gly Val Val Val Phe Ser Leu Ile Leu Ala Leu Val Cys Ile
 165 170 175
 Thr Gln Pro Phe Asn Pro Leu Ala Gln Phe Thr Phe Leu Ile Leu Leu
 180 185 190
 Trp Gly Val Ala Leu Leu Val Arg Arg Ile Pro Gly Arg Phe Ser Ala
 195 200 205
 Leu Met Leu Ile Val Leu Ser Leu Thr Val Ser Cys Arg Tyr Ile Trp
 210 215 220
 Trp Arg Tyr Thr Ser Thr Leu Asn Trp Asp Asp Pro Val Ser Leu Val
 225 230 235 240
 Cys Gly Leu Val Leu Leu Phe Ala Glu Thr Tyr Ala Trp Ile Val Leu
 245 250 255
 Val Leu Gly Tyr Phe Gln Val Ile Trp Pro Leu Asn Arg Gln Pro Val
 260 265 270
 Pro Leu Pro Lys Asp Thr Thr Gln Trp Pro Thr Val Asp Leu Phe Val
 275 280 285
 Pro Thr Tyr Asn Glu Asp Leu Ser Val Val Lys Asn Thr Ile Tyr Ala
 290 295 300
 Ala Leu Gly Ile Asp Trp Pro Lys Asp Lys Ile Lys Ile Trp Ile Leu
 305 310 315 320
 Asp Asp Gly Gly Arg Ala Glu Phe Arg Gln Phe Ala Asp Glu Val Gly
 325 330 335
 Val Glu Tyr Ile Ala Arg Thr Thr His Glu His Ala Lys Ala Gly Asn
 340 345 350
 Ile Asn Asn Ala Leu Lys Tyr Ala Lys Gly Glu Phe Val Ser Ile Phe
 355 360 365
 Asp Cys Asp His Val Pro Thr Arg Ser Phe Leu Gln Met Thr Met Gly
 370 375 380
 Trp Phe Leu Lys Glu Lys Glu Leu Ala Met Met Gln Thr Pro His His
 385 390 395 400
 Phe Phe Ser Pro Asp Pro Phe Glu Arg Asn Leu Gly Arg Phe Arg Lys
 405 410 415
 Thr Pro Asn Glu Gly Thr Leu Phe Tyr Gly Leu Val Gln Asp Gly Asn
 420 425 430
 Asp Met Trp Asp Ala Thr Phe Phe Cys Gly Ser Cys Ala Val Ile Arg
 435 440 445
 Arg Lys Pro Leu Asp Glu Ile Gly Gly Ile Ala Val Glu Thr Val Thr
 450 455 460
 Glu Asp Ala His Thr Ser Leu Arg Leu His Arg Leu Gly Tyr Thr Ser
 465 470 475 480
 Ala Tyr Met Arg Ile Pro Gln Ala Ala Gly Leu Ala Thr Glu Ser Leu
 485 490 495
 Ser Ala His Ile Gly Gln Arg Ile Arg Trp Ala Arg Gly Met Val Gln
 500 505 510
 Ile Phe Arg Leu Asp Asn Pro Leu Met Gly Lys Gly Leu Lys Leu Ala

```

      515              520              525
Gln Arg Leu Cys Tyr Val Asn Ala Met Phe His Phe Leu Ser Gly Ile
  530              535              540
Pro Arg Leu Ile Phe Leu Thr Ala Pro Leu Ala Phe Leu Leu Leu His
  545              550              555              560
Ala Tyr Ile Ile Tyr Ala Pro Ala Leu Met Ile Ala Leu Phe Val Leu
      565              570              575
Pro His Met Ile His Ala Ser Leu Thr Asn Ser Lys Ile Gln Gly Lys
      580              585              590
Tyr Arg His Ser Phe Trp Ser Glu Ile Tyr Glu Thr Val Leu Ala Trp
      595              600              605
Tyr Ile Ala Pro Pro Thr Met Val Ala Leu Ile Asn Pro His Lys Gly
  610              615              620
Lys Phe Asn Val Thr Ala Lys Gly Gly Leu Val Glu Glu Glu Tyr Val
  625              630              635              640
Asp Trp Val Ile Ser Arg Pro Tyr Ile Phe Leu Val Leu Leu Asn Ile
      645              650              655
Val Gly Val Ile Val Gly Ile Trp Arg Tyr Phe Tyr Gly Pro Glu Asn
      660              665              670
Glu Ile Leu Thr Val Phe Val Ser Met Ala Trp Val Phe Tyr Asn Leu
      675              680              685
Ile Ile Leu Gly Gly Ala Val Ala Val Ser Val Glu Ser Lys Gln Val
  690              695              700
Arg Arg Ala His Arg Val Glu Ile Ser Met Pro Ala Ala Ile Ala Arg
  705              710              715
Asp Asp Gly His Leu Phe Ser Cys Thr Val His Asp Phe Ser Asp Gly
      725              730              735
Gly Leu Gly Ile Lys Ile Asn Gly Gln Ala Lys Val Leu Gly Gly Gln
      740              745              750
Lys Val Asn Leu Leu Leu Lys Arg Gly Gln Gln Glu Tyr Val Phe Pro
      755              760              765
Thr Gln Val Val Arg Val Arg Gly Asn Glu Val Gly Leu Gln Leu Met
  770              775              780
Pro Leu Thr Lys Lys Gln His Ile Asp Phe Val Gln Cys Thr Phe Ala
  785              790              795              800
Arg Ala Asp Thr Trp Ala Leu Trp Gln Asp Ser Phe Pro Glu Asp Lys
      805              810              815
Pro Leu Glu Ser Leu Leu Asp Ile Leu Lys Leu Gly Phe Arg Gly Tyr
      820              825              830
Arg His Leu Ala Glu Phe Ala Pro Ser Ser Val Lys Leu Ile Phe Arg
      835              840              845
Ser Leu Thr Ser Leu Val Ser Trp Val Val Ser Phe Ile Pro Arg Arg
  850              855              860
Pro Glu Arg Asp Glu Ala Lys Gln Ala Asp Pro Val Met Ala Gln Gln
  865              870              875              880

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<210> 7517

<211> 1169

<212> PRT

<213> Enterobacter cloacae

<400> 7517

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Ile Thr Thr Gly Leu Gly Pro Gly Met Arg Thr Phe Thr Leu Asn Leu
  1              5              10              15
Leu Thr Leu Ser Leu Gly Leu Ala Leu Met Pro Leu Ala Gln Ala Ala
      20              25              30
Asn Ser Pro Gln Gln Arg Gln Leu Leu Glu Gln Val Arg Leu Gly Glu
      35              40              45
Ser Thr Gln Arg Glu Asp Leu Val Arg Gln Ser Leu Tyr Arg Leu Glu

```

50					55					60					
Leu	Ile	Asp	Pro	Asn	Asn	Pro	Asp	Val	Ile	Ala	Ala	Arg	Phe	Arg	Tyr
65					70					75					80
Leu	Leu	Arg	Gln	Gly	Asp	Thr	Ala	Gly	Ala	Gln	Lys	Glu	Leu	Asp	Arg
				85					90						95
Leu	Lys	Gly	Met	Ala	Ala	Asp	Ser	Ser	Ala	Tyr	Gln	Ser	Ser	Arg	Thr
			100					105					110		
Thr	Met	Leu	Leu	Ser	Thr	Pro	Asp	Gly	Arg	Gln	Ala	Leu	Gln	Gln	Ala
			115				120					125			
Arg	Leu	Leu	Ala	Thr	Thr	Gly	His	Thr	Gln	Glu	Ala	Ile	Ala	Ala	Tyr
			130				135				140				
Asp	Lys	Leu	Phe	Asp	Gly	Lys	Pro	Pro	Ser	Gly	Asp	Ile	Ala	Thr	Glu
145					150					155					160
Tyr	Trp	Asn	Val	Val	Ala	Lys	Glu	Pro	Ala	Arg	Arg	Asn	Leu	Ala	Ile
				165					170					175	
Asn	Gln	Leu	Lys	Lys	Ile	Asn	Ala	Ser	Ser	Pro	Gly	Asn	Val	Pro	Leu
			180					185					190		
Gln	Ser	Ser	Leu	Ala	Gln	Leu	Leu	Phe	Gln	Ser	Gly	Arg	Arg	Asp	Glu
			195				200					205			
Gly	Phe	Ala	Val	Leu	Gln	Glu	Met	Ala	Lys	Ser	Asn	Asn	Gly	Arg	Ser
			210				215					220			
Gln	Ala	Ser	Asp	Met	Trp	Tyr	Gln	Gln	Ile	Lys	Asp	Gln	Pro	Val	Ser
225					230					235					240
Ser	Ala	Ser	Val	Thr	Ala	Leu	Gln	Gln	Tyr	Leu	Ser	Val	Phe	Ser	Asp
				245					250					255	
Gly	Asp	Asn	Val	Thr	Ala	Ala	Arg	Thr	Gln	Leu	Glu	Ala	Gln	Gln	Lys
			260					265					270		
Gln	Leu	Ala	Asp	Pro	Ala	Phe	Arg	Ala	Lys	Ala	Glu	Gly	Leu	Ala	Ala
			275				280					285			
Val	Asp	Ala	Gly	Gln	Gly	Ser	Lys	Ala	Val	Thr	Glu	Leu	Gln	Lys	Ala
			290				295				300				
Val	Ser	Ala	Asn	His	Ala	Asp	Ser	Glu	Ala	Val	Gly	Ala	Leu	Gly	Gln
305					310					315					320
Ala	Tyr	Ser	Gln	Lys	Gly	Asp	Arg	Ala	Arg	Ala	Val	Ala	Gln	Phe	Glu
				325					330					335	
Lys	Ala	Ile	Ala	Leu	Asp	Pro	Gln	Ser	Asp	Asn	Arg	Gly	Lys	Trp	Asp
			340					345					350		
Ser	Leu	Leu	Lys	Val	Asn	Arg	Tyr	Trp	Leu	Leu	Ile	Gln	Gln	Gly	Asp
			355				360					365			
Asn	Ala	Leu	Lys	Ala	Asn	Asn	Thr	Ala	Gln	Ala	Glu	Arg	Tyr	Tyr	Gln
			370				375				380				
Gln	Ala	Arg	Asn	Ile	Asp	Asn	Thr	Asp	Ser	Tyr	Ala	Val	Leu	Gly	Leu
385					390					395					400
Gly	Asp	Ala	Ala	Ala	Ala	Arg	Lys	Asp	Asn	Asp	Ala	Ala	Glu	Arg	Tyr
				405					410					415	
Tyr	Arg	Gln	Ala	Leu	Arg	Met	Asp	Ser	Gly	Asn	Ser	Asn	Ala	Val	Arg
			420					425					430		
Gly	Leu	Ala	Asn	Ile	Tyr	Arg	Ala	Gln	Ser	Pro	Glu	Lys	Ala	Thr	Gln
			435				440					445			
Phe	Ile	Gln	Ser	Leu	Ser	Ala	Ser	Gln	Arg	Arg	Ser	Ile	Asp	Asp	Ile
			450				455				460				
Glu	Arg	Ser	Leu	Thr	Asn	Glu	Gln	Leu	Ser	Ala	Gln	Ala	Glu	Gln	Leu
465					470					475					480
Glu	Ser	Glu	Gly	Lys	Tyr	Ala	Gln	Ala	Ala	Glu	Ile	Gln	Arg	Arg	Arg
				485					490					495	
Leu	Ala	Leu	Ser	Pro	Gly	Asp	Val	Trp	Ile	Thr	Tyr	Arg	Leu	Ser	Arg
			500					505					510		
Asp	Leu	Tyr	Ser	Ala	Gly	Gln	Arg	Ser	Gln	Ala	Asp	Asn	Leu	Met	Arg
			515				520					525			
Gln	Leu	Ala	Ser	Gln	Lys	Pro	Gly	Asp	Pro	Asp	Gln	Val	Tyr	Ala	Ser
			530				535								

Gly Leu Tyr Leu Ser Gly Asn Asp Gln Asp Arg Ala Ala Leu Ala His
 545 550 555 560
 Leu Asn Thr Leu Pro Arg Asp Lys Trp Asn Gly Asn Ile Gln Ala Leu
 565 570 575
 Ala Asp Arg Leu Gln Ser Asn Gln Val Leu Glu Thr Ala Asn Arg Leu
 580 585 590
 Arg Asp Ser Gly Lys Glu Gln Glu Ala Glu Thr Leu Leu Arg Gln Gln
 595 600 605
 Pro Pro Ser Thr Arg Ile Asp Leu Thr Leu Ala Asp Trp Ala Glu Gln
 610 615 620
 Arg Gly Asp His Glu Ala Ala Lys Thr Ala Tyr Asn Thr Ile Leu Gln
 625 630 635 640
 Arg Glu Pro Gln Asn Glu Asp Ala Ile Leu Gly Leu Thr Glu Val Ser
 645 650 655
 Leu Ala Gln Gly Asn Lys Asp Ala Ala Arg Ala Ala Leu Ala Lys Leu
 660 665 670
 Pro Ala Ala Gln Asn Gly Glu Pro Leu Ser Ile Asn Met Gln Arg Arg
 675 680 685
 Leu Ala Met Ala Gln Ala Gly Leu Gly Asp Pro Ala Ala Ala Glu Lys
 690 695 700
 Thr Phe Asn Ala Ile Leu Pro Gln Ala Lys Ser Gln Pro Pro Ser Met
 705 710 715 720
 Glu Ser Ala Leu Val Met Arg Asp Ala Ala Arg Phe Gln Ala Gln Asn
 725 730 735
 Gly Gln Pro Gln Gln Ala Leu Asp Thr Trp Lys Asp Ala Met Val Ser
 740 745 750
 Ser Gly Ile Thr Thr Thr Arg Pro Thr Asp Asn Asp Ser Phe Thr Arg
 755 760 765
 Leu Thr Arg Asn Asp Glu Lys Asp Asp Trp Leu Lys Arg Gly Val Arg
 770 775 780
 Ser Asp Ala Gly Asp Leu Tyr Arg Gln Gln Asp Leu Asn Val Thr Leu
 785 790 795 800
 Gln His Asp Tyr Trp Gly Ser Ser Gly Thr Gly Gly Tyr Ser Asp Leu
 805 810 815
 Lys Ala His Thr Thr Met Leu Gln Val Asp Ala Pro Leu Ser Asp Gly
 820 825 830
 Arg Met Phe Phe Arg Ser Asp Leu Val Asn Met Asn Ala Gly Ser Phe
 835 840 845
 Asp Thr Asp Asn Gly Thr Tyr Asp Pro Thr Trp Gly Thr Cys Ala Glu
 850 855 860
 Thr Pro Cys His Gly Ser Thr Asn Gln Ser Ala Asn Gly Ala Ser Val
 865 870 875 880
 Ala Val Gly Trp Gln Asn Lys Thr Trp Ala Trp Asp Ile Gly Thr Thr
 885 890 895
 Pro Met Gly Phe Asp Val Val Asp Val Val Gly Ser Leu Ser Tyr Ser
 900 905 910
 Asn Asp Leu Gly Pro Ile Gly Tyr Thr Leu Asn Ala His Arg Arg Pro
 915 920 925
 Ile Ser Ser Ser Val Leu Ala Phe Ala Gly Gln Lys Asp Pro Asn Thr
 930 935 940
 Asp Thr Thr Trp Gly Gly Val Arg Ala Thr Gly Gly Gly Val Ser Met
 945 950 955 960
 Ser Tyr Asp Lys Gly Glu Ala Asn Gly Ile Trp Ser Ser Leu Ser Ala
 965 970 975
 Asp Ser Leu Thr Gly Lys Asn Val Glu Asp Asn Trp Arg Val Arg Trp
 980 985 990
 Met Thr Gly Tyr Tyr Tyr Lys Leu Ile Asn Gln Asn Asn Glu Arg Leu
 995 1000 1005
 Thr Val Gly Val Ser Asn Met Leu Trp His Tyr Asp Lys Asp Leu Ser
 1010 1015 1020
 Gly Tyr Ser Leu Gly Gln Gly Gly Tyr Tyr Ser Pro Gln Glu Tyr Val

1025 1030 1035 1040
 Ser Phe Ala Leu Pro Val Asn Trp Arg Lys Arg Thr Glu Asn Trp Ser
 1045 1050 1055
 Trp Glu Leu Gly Gly Ser Val Ser Trp Ser His Ser Lys Thr Lys Asp
 1060 1065 1070
 Val Met Arg Tyr Pro Leu Gln Gly Leu Ile Pro Asp Asn Glu Pro Gly
 1075 1080 1085
 Arg Tyr Thr Asp Lys Gly Val Met Glu Thr Gly Ser Ser Ser Ser Gly
 1090 1095 1100
 Thr Gly Tyr Thr Ala Arg Ala Ile Val Glu Arg Arg Val Thr Ser Asn
 1105 1110 1115 1120
 Trp Phe Val Gly Leu Gly Val Asp Ile Gln Glu Ala Lys Asp Tyr Thr
 1125 1130 1135
 Pro Ser His Ala Leu Leu Tyr Val Arg Tyr Ser Ala Ala Gly Trp Gln
 1140 1145 1150
 Gly Asp Met Asp Leu Pro Pro Glu Pro Leu Val Pro Tyr Ala Asp Trp
 1155 1160 1165

<210> 7518

<211> 700

<212> PRT

<213> *Enterobacter cloacae*

<400> 7518

Val Cys Leu Lys Ser Ala Ala Ile Gly Tyr Thr Arg Thr His Gln Val
 1 5 10 15
 Tyr Thr Leu Val Arg Pro Ala Leu Arg Val Leu Trp Arg Val Ile Leu
 20 25 30
 Arg Val Ser Arg Ser Leu Thr Ile Lys Gln Met Ala Met Val Ser Ala
 35 40 45
 Val Thr Met Leu Phe Val Phe Ile Phe Cys Val Ile Leu Leu Phe His
 50 55 60
 Ser Val Gln Gln Asn Arg Tyr Asn Thr Ala Ser Gln Leu Gly Ser Ile
 65 70 75 80
 Ala Arg Ser Val Arg Glu Pro Leu Ser Ala Ser Ile Leu Lys Gly Asp
 85 90 95
 Ile Pro Glu Ala Glu Ser Ile Leu Lys Arg Ile Gln Pro Ala Gly Ile
 100 105 110
 Val Ser Arg Ala Asp Val Val Leu Pro Asn Gln Phe Gln Ala Leu Arg
 115 120
 Met Ser Phe Ile Pro Glu Arg Ser Val Pro Met Met Val Met Arg Leu
 130 135 140
 Phe Glu Leu Pro Val Gln Ile Ser Leu Pro Leu Tyr Ser Leu Glu Arg
 145 150 155
 Pro Ala Asn Pro Gln Pro Leu Ala Tyr Leu Val Leu Gln Ala Asp Ser
 165 170 175
 Tyr Arg Met Tyr Lys Phe Val Met Ser Trp Val Ala Thr Leu Val Thr
 180 185 190
 Thr Tyr Leu Leu Thr Leu Met Leu Ser Val Ala Leu Thr Trp Cys
 195 200 205
 Ile Asn Arg Leu Ile Val His Pro Leu Arg Arg Ile Ala Arg Glu Leu
 210 215 220
 Asn Asp Leu Ser Pro Gln Glu His Met Gly His Gln Leu Pro Leu Pro
 225 230 235 240
 Arg Leu His His Asp Asp Glu Ile Gly Met Leu Val Arg Ser Tyr Asn
 245 250 255
 Ile Asn Gln Gln Arg Val Leu Arg Gln Gln Glu Glu Leu Ser Ser Asn
 260 265 270
 Ala Thr Arg Phe Pro Val Ser Asp Leu Pro Asn Lys Ala Phe Leu Met

275	280	285
Ala Leu Leu Glu Gln Thr Val	Ala Arg Gln Gln Thr	Thr Ala Leu Met
290	295	300
Val Ile Ala Cys Glu Thr Leu	Gln Asp Thr Ala Gly	Val Leu Lys Glu
305	310	315
Ser Gln Arg Glu Met Leu Leu	Thr Leu Val Glu Lys Val	Lys Ser
325	330	335
Val Leu Ala Pro Arg Met Val	Leu Thr Gln Val Ser Gly	Tyr Asp Leu
340	345	350
Val Val Ile Ala His Gly Val	Lys Glu Pro Trp His Ala	Ile Thr Leu
355	360	365
Gly Gln Gln Val Leu Thr Val	Ile Asn Glu Arg Leu Pro	Ile Gln Gly
370	375	380
Ile Gln Leu Arg Pro Ser Ala	Ser Ile Gly Ile Ala Met	Tyr Tyr Gly
385	390	395
Gly Leu Thr Ala Glu Gln Leu	Tyr Arg Arg Ala Phe Ser	Ala Ala Phe
405	410	415
Thr Ala Arg Arg Lys Gly Lys	Asn Gln Ile Gln Phe Phe	Asp Pro Glu
420	425	430
Gln Met Glu Lys Ala Gln Gln	Arg Leu Thr Glu Glu Ser	Asp Ile Leu
435	440	445
Thr Ala Met Asp Asn Arg Gln	Phe Ala Leu Trp Leu Gln	Pro Gln Val
450	455	460
Asn Leu Arg Thr Gly Glu Val	Tyr Ser Ala Glu Ala Leu	Leu Arg Met
465	470	475
Gln Gln Pro Asp Gly Thr Trp	Glu Leu Pro Glu Gly Met	Ile Glu Arg
485	490	495
Ile Glu Ser Cys Gly Leu Met	Val Thr Val Gly Tyr Trp	Val Leu Glu
500	505	510
Glu Thr Cys Arg Gln Leu Ala	Ala Trp Gln Gln Arg Gly	Ile Thr Leu
515	520	525
Pro Leu Ser Val Asn Leu Ser	Ala Leu Gln Leu Met His	Pro Thr Met
530	535	540
Val Pro Glu Met Leu Glu Leu	Ile His Arg Tyr Arg Ile	Gln Pro His
545	550	555
Thr Leu Ile Leu Glu Val Thr	Glu Ser Arg Cys Ile Asp	Asn Pro Asp
565	570	575
Asp Ala Val Ala Ile Leu Lys	Pro Leu Arg Asn Ala Gly	Ile Arg Ile
580	585	590
Ala Leu Asp Asp Phe Gly Met	Gly Tyr Ser Gly Leu Arg	Gln Leu Gln
595	600	605
His Met Lys Thr Leu Pro Val	Asp Val Leu Lys Ile Asp	Lys Thr Phe
610	615	620
Val Glu Gly Leu Pro Glu Asp	Cys Ser Leu Val Gln Ala	Ile Ile Gln
625	630	635
Met Ala His Ser Leu Asn Leu	His Val Ile Ala Glu Gly	Ile Glu Thr
645	650	655
Asp Ala Gln Arg Glu Trp Leu	Ala Ala Gly Val Glu Ser	Gly Gln
660	665	670
Gly Phe Leu Phe Asp Arg Ala	Val Pro Thr Asp Ile Phe	Glu Gln Arg
675	680	685
Tyr Leu Ala Asp Ala Gly Asn	Asn Ala Lys Val	
690	695	700

<210> 7519

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 7519

Pro Tyr Lys Ala Cys Ser Phe Ser Phe Gln Gly His Pro Met Lys Thr

```

1           5           10           15
Ser Leu Phe Lys Ser Leu Tyr Phe Gln Val Leu Thr Ala Ile Ala Ile
20          25          30
Gly Ile Leu Leu Gly His Tyr Tyr Pro Glu Leu Gly Ala Gln Met Lys
35          40          45
Pro Leu Gly Asp Ala Phe Val Lys Leu Ile Lys Met Ile Ile Ala Pro
50          55          60
Val Ile Phe Cys Thr Val Val Thr Gly Ile Ala Gly Met Glu Ser Met
65          70          75          80
Lys Ala Val Gly Arg Thr Gly Ala Val Ala Leu Leu Tyr Phe Glu Ile
85          90          95
Val Ser Thr Ile Ala Leu Ile Ile Gly Leu Ile Ile Val Asn Val Val
100         105         110
Gln Pro Gly Ala Gly Met Asn Val Asp Pro Ala Thr Leu Asp Ala Lys
115         120         125
Ala Val Ala Val Tyr Ala Glu Gln Ala Lys Asp Gln Gly Ile Val Ala
130         135         140
Phe Leu Leu Asp Val Ile Pro Ser Ser Val Ile Gly Ala Phe Ala Ser
145         150         155         160
Gly Asn Ile Leu Gln Val Leu Leu Phe Ala Val Leu Phe Gly Phe Val
165         170         175
Leu His Gln Gln Gly Ala Glu Gly Ser Ala His Ala Arg
180         185

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<210> 7520

<211> 392

<212> PRT

<213> Enterobacter cloacae

<400> 7520

```

Gly Thr Ala Arg His Gln Thr Ser Glu Glu Ala Ile Arg Lys Asp Gly
1           5           10           15
Leu Phe Ala Phe Leu His Leu Leu Pro Phe His Lys Gln Ile Thr Tyr
20          25          30
Pro Pro Ile Tyr Thr Val Asn Tyr Pro Gly Phe Cys Ile Arg Ile Ala
35          40          45
Ser Met Asn His Ser Leu Lys Pro Trp Asn Thr Phe Gly Ile Gln Arg
50          55          60
Asn Ala Asn Gln Ile Val Arg Ala Glu Ser Ala Gln Gln Leu Leu Asn
65          70          75          80
Ala Trp Gln Asn Ala Thr Gly Asn Gly Glu Pro Val Leu Ile Leu Gly
85          90          95
Glu Gly Ser Asn Val Leu Phe Leu Asp Asp Phe Ala Gly Thr Val Ile
100         105         110
Val Asn Arg Ile Met Gly Ile Glu Cys Lys Glu Ser Ala Asp Ser Trp
115         120         125
His Leu His Val Gly Ala Gly Glu Asn Trp His His Leu Val Gln Tyr
130         135         140
Thr Leu Glu Lys Gly Met Pro Gly Leu Glu Asn Leu Ala Leu Ile Pro
145         150         155         160
Gly Cys Ala Gly Ser Ser Pro Ile Gln Asn Ile Gly Ala Tyr Gly Ile
165         170         175
Glu Leu Lys His Val Cys Glu Tyr Val Asp Cys Ile Glu Leu Ala Thr
180         185         190
Gly Thr Ala Lys Arg Leu Thr Ala Glu Gln Cys Arg Phe Gly Tyr Arg
195         200         205
Asp Ser Ile Phe Lys His Asp Tyr Gln Asp Arg Phe Val Ile Val Ala
210         215         220
Val Gly Leu Arg Leu Ala Lys Ala Trp Lys Pro Val Leu Thr Tyr Gly
225         230         235         240
Asp Leu Thr Arg Leu Asp Pro Ala Thr Val Thr Pro Arg Glu Val Phe

```

245 250 255
 Asp Ser Val Cys His Met Arg Met Thr Lys Leu Pro Asp Pro Lys Val
 260 265 270
 Asn Gly Asn Ala Gly Ser Phe Phe Lys Asn Pro Val Ile Ser Ser Glu
 275 280 285
 Asn Ala Lys Ala Phe Leu Ala Gly Trp Pro Thr Ala Pro His Tyr Pro
 290 295 300
 Gln Ala Asp Gly Ser Val Lys Leu Ala Ala Gly Trp Leu Ile Asp Gln
 305 310 315 320
 Cys Glu Leu Lys Gly Thr Thr Leu Gly Gly Ala Ala Val His Arg Gln
 325 330 335
 Gln Ala Leu Val Leu Ile Asn Gln Ser Asn Ala Thr Ser Glu Asp Val
 340 345 350
 Val Asn Leu Ala His His Val Arg Gln Arg Val Gly Glu Lys Phe Asn
 355 360 365
 Val Trp Leu Glu Pro Glu Val Arg Phe Ile Gly Arg Thr Gly Glu Val
 370 375 380
 Asn Ala Val Glu Thr Ile Ala
 385 390

<210> 7521

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 7521

Val Cys Pro Thr Thr Ile Arg Lys Pro Leu Met Ala Val Leu Gly Leu
 1 5 10 15
 Gln Gly Val Arg Gly Gly Val Gly Thr Thr Ser Val Thr Ala Ala Leu
 20 25 30
 Ala Trp Ser Leu Gln Val Leu Gly Glu Ser Val Leu Val Ile Asp Ala
 35 40 45
 Cys Ser Asp Asn Leu Leu Arg Met Ser Phe Asn Val Asp Phe Thr His
 50 55 60
 Ala Asn Gly Trp Gly Arg Ala Leu Leu Asp Asp Lys Asp Trp Arg Asp
 65 70 75 80
 Ala Gly Leu Arg Tyr Thr Ser Gln Leu Asp Leu Leu Pro Phe Gly Gln
 85 90 95
 Leu Thr Glu Thr Glu Arg Gly Asn Glu Ala Ala Tyr Gln Arg Leu Phe
 100 105 110
 Ser Arg Phe Ile Thr Ala Leu Gln Ser Leu Lys Glu Ser Gly His Tyr
 115 120 125
 Gln Trp Ile Leu Leu Asp Leu Pro His Gly Ala Ala Ser Leu Thr Arg
 130 135 140
 Gln Leu Leu Ala Gln Cys Asp His Val Leu Ser Ile Ala Asn Val Asp
 145 150 155 160
 Ala Asn Cys His Ile Arg Leu His Gln Gln Pro Met Pro Ala Asn Ala
 165 170 175
 His Ile Leu Ile Asn Asp Leu Arg Ile Gly Ser Gln Ile Gln Asp Asp
 180 185 190
 Leu Tyr Gln Val Trp Leu Gln Ser Gln Arg Arg Leu Leu Pro Met Val
 195 200 205
 Ile His Arg Asp Glu Ala Met Ala Glu Cys Leu Ala Ser Lys Gln Pro
 210 215 220
 Leu Gly Glu Tyr Arg Ser Asp Ser Leu Ala Ala Glu Glu Ile Leu Thr
 225 230 235 240
 Leu Ala Asn Trp Cys Leu Leu His Phe Ala Lys Arg Pro Glu Pro Ala
 245 250 255
 Gly Ser Ser Val
 260

<210> 7522

<211> 847

<212> PRT

<213> *Enterobacter cloacae*

<400> 7522

Phe Ser Gly His Leu Leu His Trp Phe Pro Gly Ser Cys Arg Ser Phe
 1 5 10 15
 Arg Val Asp Leu Ser Glu Met Lys Arg Ser Arg Arg Thr Arg Leu Trp
 20 25 30
 Leu Asn Asn Asp Asp Asn Ala Met Lys Thr Lys Leu Ser Trp Leu Cys
 35 40 45
 Ala Val Ala Met Gly Met Ser Ala Leu Pro Ala Thr Val Ala Asn Ala
 50 55 60
 Ala Pro Asp Asn Ala Ala Thr Thr Pro Ala Pro Thr Val Pro Val Val
 65 70 75 80
 Ala Gln Ala Thr Asp Pro Val Val Thr Ala Ala Pro Gly Gln Thr Glu
 85 90 95
 Asn Val Val Pro Asn Gln Pro Thr Tnr Gly Asn Thr Leu Pro Gly Asp
 100 105 110
 Asn Pro Val Val Gly Gln Val Met Pro Gly Val Pro Gly Ala Ser Ala
 115 120 125
 Pro Val Val Ala Glu Asn Thr Pro Ser Arg Asp Val Lys Leu Thr Phe
 130 135 140
 Ala Gln Ile Ala Pro Pro Pro Gly Ser Met Val Leu Arg Gly Ile Asn
 145 150 155 160
 Pro Asn Gly Gly Ile Glu Phe Gly Met Arg Ser Asp Glu Val Val Ser
 165 170 175
 Lys Ala Met Leu Asn Leu Glu Tyr Thr Pro Ser Pro Ser Leu Leu Pro
 180 185 190
 Val Gln Ser Gln Leu Lys Val Tyr Leu Asn Asp Glu Leu Met Asp Val
 195 200 205
 Leu Pro Val Thr Lys Glu Gln Leu Gly Lys Lys Thr Leu Ala Gln Val
 210 215 220
 Pro Ile Asn Pro Leu Phe Ile Thr Asp Phe Asn Arg Val Arg Leu Glu
 225 230 235 240
 Phe Val Gly His Tyr Arg Asp Val Cys Glu Asn Pro Ala Ser Ser Thr
 245 250 255
 Leu Trp Leu Asp Val Gly Arg Asn Ser Ser Leu Gln Met Thr Tyr Gln
 260 265 270
 Pro Leu Ala Leu Lys Asn Asp Leu Ser Ala Phe Pro Val Pro Phe Phe
 275 280 285
 Asp Pro Arg Asp Asn Arg Pro Leu Asn Leu Pro Met Val Phe Ala Gly
 290 295 300
 Ser Pro Asp Val Thr Glu Gln Leu Ala Ala Ser Ile Val Ala Ser Trp
 305 310 315 320
 Phe Gly Ser Arg Ser Gly Trp Arg Gly Gln Ser Phe Pro Val Met Tyr
 325 330 335
 Asp Lys Met Pro Asp Lys Asn Ala Ile Val Phe Ala Thr Asn Ala Lys
 340 345 350
 Arg Pro Ala Phe Leu Arg Asp His Pro Glu Val Lys Ala Pro Thr Ile
 355 360 365
 Glu Met Ile Ser His Pro Asp Asn Pro Tyr Val Lys Leu Leu Val Ile
 370 375 380
 Phe Gly Arg Asp Asp Lys Asp Leu Val Gln Ala Ala Lys Gly Ile Ala
 385 390 395 400
 Gln Gly Asn Ile Leu Phe Arg Gly Asn Ser Val Val Val Asp Glu Val
 405 410 415
 Lys Pro Leu Leu Ala Arg Lys Pro Tyr Asp Ala Pro Asn Trp Val Arg
 420 425 430
 Thr Asp Arg Ala Ile Thr Phe Gly Glu Leu Lys Thr Tyr Glu Glu Gln

435 440 445
 Leu Gln Ser Thr Gly Leu Glu Pro Ser Val Ser Leu Ser Leu Asn
 450 455 460
 Leu Pro Pro Asp Leu Tyr Leu Leu Arg Thr Asn Gly Ile Asp Ile Asn
 465 470 475 480
 Leu Asn Tyr Arg Tyr Thr Ala Pro Ala Thr Lys Asp Ser Ser Arg Met
 485 490 495
 Asp Ile Ser Leu Asn Asn Gln Phe Leu Gln Ser Phe Ser Leu Thr Ser
 500 505 510
 Ser Gln Glu Thr Asn Arg Leu Met Leu Arg Leu Pro Val Leu Gln Gly
 515 520 525
 Leu Leu Asp Gly Lys Thr Asp Val Ser Ile Pro Ala Leu Lys Leu Gly
 530 535 540
 Ala Val Asn Gln Leu Arg Phe Asn Phe Gln Tyr Met Asn Pro Met Pro
 545 550 555 560
 Gly Gly Ser Val Glu Asn Cys Ile Thr Phe Gln Pro Val Gln Asn His
 565 570 575
 Val Val Ile Gly Asp Asp Ser Thr Ile Asp Phe Ser Lys Tyr Tyr His
 580 585 590
 Phe Ile Ala Met Pro Asp Leu Arg Ala Phe Ala Asn Ala Ser Phe Pro
 595 600 605
 Phe Ser Arg Met Ala Asp Leu Ser Glu Ser Ile Val Met Pro Lys
 610 615 620
 Ala Ala Asn Glu Gly Gln Val Ala Thr Leu Leu Asp Thr Met Gly Thr
 625 630 635 640
 Val Gly Ala Gln Thr Gly Leu Pro Ala Ile Asn Val Thr Val Thr Asp
 645 650 655
 Asp Gly Ser Gln Ile Gln Asn Lys Asp Ala Asp Ile Met Val Ile Gly
 660 665 670
 Asn Ile Pro Asp Lys Leu Lys Asp Glu Lys Arg Val Asp Leu Leu Val
 675 680 685
 Gln Ala Ala Gln Ser Trp Val Asn Thr Pro Leu Arg Gln Thr Glu Phe
 690 695 700
 Pro Ser Ile Met Pro Asp Ser Gly Asp Arg Gln Ala Asn Ile Arg Thr
 705 710 715 720
 Thr Val Ser Ser Thr Gly Pro Met Ala Ala Ile Val Gly Phe Gln Ser
 725 730 735
 Pro Tyr Asn Asp Gln Arg Ser Val Ile Ala Leu Leu Ala Asp Ser Pro
 740 745 750
 Arg Gly Tyr Glu Leu Leu Asn Thr Ala Met Asn Asp Ser Gly Lys Arg
 755 760 765
 Ala Ala Met Phe Gly Ser Val Ser Val Ile Arg Glu Ser Gly Val Asn
 770 775 780
 Ser Leu Arg Val Gly Asp Val Tyr Tyr Val Gly His Leu Pro Trp Phe
 785 790 795 800
 Glu Arg Leu Trp Tyr Ala Leu Ser Asn His Pro Val Leu Leu Ala Val
 805 810 815
 Leu Ala Ala Leu Ser Val Val Leu Leu Ala Trp Val Leu Trp Arg Leu
 820 825 830
 Leu Arg Ile Ser Arg Arg Arg Leu Asn Pro Asp His Glu
 835 840 845

<210> 7523

<211> 371

<212> FRT

<213> Enterobacter cloacae

<400> 7523

Ala Val Met Lys Ile Phe Arg Gly Cys Val Val Ala Ala Leu Met Leu
 1 5 10 15
 Ala Ala Ala Asn Leu His Ala Ala Cys Arg Trp Pro Ala Trp Glu Thr

20 25 30
 Phe Lys Gln Asp Tyr Met Ser Glu Ser Gly Arg Val Ile Asp Pro Ser
 35 40 45
 Asp Ala Arg Lys Ile Thr Thr Ser Glu Gly Gln Ser Tyr Gly Leu Phe
 50 55 60
 Phe Ala Leu Ala Ala Asn Asp Arg Lys Ala Phe Asp Leu Leu Leu Ala
 65 70 75 80
 Trp Thr Arg Asp Asn Leu Ala Glu Gly Asp Leu Ala Gln His Leu Pro
 85 90 95
 Ala Trp Leu Trp Gly Lys Lys Asp Asp Glu Thr Trp Ala Val Ile Asp
 100 105 110
 Pro Asn Ser Ala Ser Asp Ala Asp Ile Trp Ile Ala Trp Ser Leu Leu
 115 120 125
 Glu Ala Gly Arg Leu Trp Lys Asn Pro Asp Tyr Thr Arg Thr Gly Lys
 130 135 140
 Ala Leu Leu Thr Arg Ile Ala Ser Glu Glu Val Val Lys Val Pro Gly
 145 150 155 160
 Leu Gly Ser Met Leu Leu Pro Gly Lys Val Gly Phe Ala Glu Glu Ser
 165 170 175
 Val Trp Arg Phe Asn Pro Ser Tyr Leu Pro Pro Gln Leu Ala Ser Tyr
 180 185 190
 Phe Thr Arg Phe Gly Ala Pro Trp Thr Thr Leu Arg Glu Thr Asn Leu
 195 200 205
 Arg Leu Leu Leu Glu Thr Ala Pro Lys Gly Phe Ser Pro Asn Trp Val
 210 215 220
 Lys Tyr Gln Lys Lys Gly Gly Trp Gln Leu Ser Gln Asp Ala Ser Leu
 225 230 235 240
 Ile Gly Ser Tyr Asp Ala Ile Arg Val Tyr Leu Trp Val Gly Met Met
 245 250 255
 Asn Asp Asn Asp Pro Gln Lys Ala Arg Leu Leu Ala Arg Phe Lys Pro
 260 265 270
 Met Ala Thr Thr Thr Ile Lys Gln Gly Leu Pro Pro Glu Lys Val Asp
 275 280 285
 Val Ala Thr Gly Lys Arg Thr Gly Asp Gly Pro Val Gly Phe Ser Ala
 290 295 300
 Ser Leu Leu Pro Phe Leu Gln Asn Arg Asp Ala Gln Ala Val Gln Arg
 305 310 315 320
 Gln His Val Ala Asp Arg Phe Pro Asp Asn Asn Ala Tyr Tyr Ser Tyr
 325 330 335
 Val Leu Thr Leu Phe Gly Gln Gly Trp Asp Gln His Arg Phe Arg Phe
 340 345 350
 Thr Val Gln Gly Glu Leu Leu Pro Asp Trp Gly Gln Glu Cys Ala Arg
 355 360 365
 Ser His
 370

<210> 7524

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 7524

Trp Ala Gly Arg Leu Ala Ala Ser Glu Ser Tyr Asp Phe Thr Gln Arg
 1 5 10 15
 Asp Glu Lys Arg Met Gln Asn Asn Glu Pro Ala Thr Pro Val Asp Ser
 20 25 30
 Ser Leu Gly Tyr Thr Phe Gln Asn Asp Phe Leu Ala Leu Thr Gln Ala
 35 40 45
 Phe Ser Leu Pro Glu Ile Asp Tyr Thr Asp Ile Ser Gln Arg Glu Gln
 50 55 60
 Leu Ala Ala Ala Ile Lys Arg Trp Pro Leu Leu Ala Glu Phe Ala Gln

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<210> 7525
<211> 116
<212> PRT
<213> Enterobacter cloacae
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<210> 7526
<211> 340
<212> PRT
<213> Enterobacter cloacae
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Val	Arg	Cys	Met	Ser	Pro	Thr	Ile	Tyr	Asp	Ile	Ala	Arg	Val	Ala	Gly
1				5				10					15		
Val	Ser	Lys	Ser	Thr	Val	Ser	Arg	Val	Leu	Asn	Lys	Gln	Thr	Asn	Ile
			20					25					30		
Ser	Pro	Glu	Ala	Arg	Glu	Lys	Val	Leu	Lys	Ala	Ile	Glu	Glu	Leu	Asn
			35				40					45			
Tyr	Gln	Pro	Asn	Lys	Leu	Ala	Arg	Ala	Leu	Thr	Ser	Ser	Gly	Phe	Asp
	50					55					60				
Ala	Ile	Met	Val	Ile	Ser	Thr	Arg	Ser	Thr	Lys	Thr	Thr	Ala	Gly	Asn
65					70					75				80	
Pro	Phe	Phe	Ser	Asp	Val	Leu	His	Ala	Ile	Thr	Ala	Lys	Ala	Glu	Glu
				85										95	
Glu	Gly	Phe	Asp	Val	Ile	Leu	Gln	Thr	Ser	Lys	Ser	Ser	Glu	Asp	Asp
			100					105					110		
Leu	Gln	Lys	Cys	Val	Gly	Lys	Ile	Lys	Gln	Lys	Met	Ile	Lys	Gly	Ile
		115				120						125			
Ile	Met	Leu	Ser	Ser	Pro	Ala	Asn	Glu	Ser	Phe	Phe	Ala	Thr	Leu	Asp
	130					135					140				
Glu	Tyr	Gly	Val	Pro	Val	Val	Val	Ile	Gly	Lys	Val	Glu	Gly	Asn	Tyr
145					150					155				160	
Gln	Asn	Ile	Tyr	Ser	Val	Asp	Thr	Asp	Asn	Phe	His	Asp	Ser	Ala	Ile
				165					170					175	
Leu	Thr	Asp	Ser	Phe	Ile	Lys	His	Gly	Arg	Thr	Lys	Ile	Ala	Cys	Leu
			180					185					190		
His	Ala	Pro	Leu	Asp	Tyr	His	Val	Ser	Ile	Asp	Arg	Leu	Ala	Gly	Tyr
		195					200					205			
Lys	Ser	Ser	Leu	Glu	Lys	His	Gly	Ile	Ala	Ile	Asn	Pro	Asp	Trp	Val
	210					215					220				

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Ile Asp Gly Gly Tyr Thr His Glu Ser Ala Leu Gln Ala Ala Cys Gln
225          230
Leu Leu Ser Ser Asp Asn Pro Pro Asp Ala Val Phe Ala Thr Asp Ser
          245          250          255
Met Lys Leu Leu Ser Leu Tyr Arg Ala Ala Asp Glu Leu Asn Leu Thr
          260          265          270
Ile Pro Glu Gln Val Ala Met Ala Gly Tyr Ser Asp Pro Met Leu Ser
          275          280          285
Leu Ile Leu Thr Pro Ala Pro Gly Gly Phe Asp Ile Pro Thr Arg Lys
          290          295          300
Leu Gly Glu Glu Ser Cys Asp Leu Leu Phe Arg Cys Ile Ala Gly Lys
305          310          315          320
Pro Ala Pro His Lys Val Leu Val Glu Thr His Phe Ser Asp Ala Ala
          325          330          335
Ser Leu Arg
340

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<210> 7527

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 7527

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Cys Gln Ala Ile Phe His Thr His Gly Asn Tyr Leu Ile Lys Arg Gly
1          5          10          15
Phe Cys Thr Thr Leu Pro Glu Val Thr Leu Ser Ser Gly Phe Thr Met
          20          25          30
Ala Thr Thr Arg Pro Arg Tnr Glu Arg Gly Ala Phe Pro Pro Gly Thr
          35          40          45
Glu His Tyr Gly Arg Ser Phe Leu Gly Ala Pro Leu Ile Trp Phe Pro
          50          55          60
Ala Pro Glu Ala Asp Arg Asn Ser Gly Leu Ile Ile Ala Gly Thr His
65          70          75          80
Gly Asp Glu Asn Ser Ser Val Val Thr Leu Ser Cys Ala Leu Arg Thr
          85          90          95
Leu Ala Pro Asp Leu Arg Arg His His Val Ile Leu Thr Val Asn Pro
          100          105          110
Asp Gly Cys Gln Leu Gly Leu Arg Ala Asn Ala Arg Gly Val Asp Leu
          115          120          125
Asn Arg Asn Phe Pro Ala Ala Asn Trp Arg Ala Gly Thr Val Tyr
          130          135          140
Arg Trp Asn Ser Ser Ala Gln Glu Arg Asp Val Val Leu Leu Thr Gly
145          150          155          160
Asp Lys Pro Gly Ser Glu Pro Glu Tnr Gln Ala Leu Cys Gln Leu Ile
          165          170          175
His Lys Ile His Pro Ala Trp Val Ile Ser Phe His Asp Pro Leu Ala
          180          185          190
Cys Ile Glu Asp Pro Arg His Thr Ala Leu Gly Gln Trp Leu Ala Asp
          195          200          205
Ala Phe Ala Leu Pro Leu Val Ser Ser Val Gly Tyr Glu Thr Pro Gly
210          215          220
Ser Phe Gly Ser Trp Cys Ala Asp Leu Ser Leu His Cys Ile Thr Ala
225          230          235          240
Glu Phe Pro Pro Ile Ser Ser Asp Glu Ala Ser Glu Lys Tyr Leu Arg
          245          250          255
Ala Met Thr Asp Leu Leu Arg Trp Gln Pro Gln Arg
          260          265

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<210> 7528

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 7528

Leu Phe Val Asn Arg Lys Ile Ser Met Ser Gln Leu Val His Phe Gln
 1 5 10 15
 Gly Asn Pro Val Ala Val Ala Gly Ser Ile Pro Gln Ser Gly Ser Lys
 20 25 30
 Ala Gln Pro Phe Thr Leu Val Ala Lys Asp Leu Ser Asp Val Thr Leu
 35 40 45
 Ser Gln Phe Ala Gly Lys Arg Lys Val Leu Asn Ile Phe Pro Ser Ile
 50 55 60
 Asp Thr Gly Val Cys Ala Ala Ser Val Arg Lys Phe Asn Gln Leu Ala
 65 70 75 80
 Thr Glu Met Asp Asn Thr Val Val Leu Cys Ile Ser Ala Asp Leu Pro
 85 90 95
 Phe Ala Gln Ser Arg Phe Cys Gly Ala Glu Gly Leu Ser Asn Val Ile
 100 105 110
 Thr Leu Ser Thr Leu Arg Ser Pro Asp Phe Leu Glu Lys Tyr Gly Val
 115 120 125
 Ala Ile Ser Glu Gly Ala Leu Lys Gly Leu Ala Ala Arg Ala Val Leu
 130 135 140
 Val Ile Asp Glu Asn Asp Asn Val Val Phe Ser Glu Leu Val Asn Glu
 145 150 155 160
 Ile Thr Thr Glu Pro Asp Tyr Thr Ala Ala Leu Glu Ala Leu Lys Ala
 165 170 175

<210> 7529

<211> 279

<212> FRT

<213> Enterobacter cloacae

<400> 7529

Lys Leu Ile Arg Ala Asn Val Leu Pro Ala Ala Ser Cys Glu Asn Gly
 1 5 10 15
 Asp Ile Ile Gly Ser Gly Ala Asp Val Thr Glu Tyr Gln Ile Gly Asp
 20 25 30
 Ser Val Cys Cys Tyr Gly Pro Leu Gln Glu Thr Val Ile Val Asn Ala
 35 40 45
 Val Asn Asn Tyr Lys Leu Arg Lys Met Pro Gln Gly Ala Ser Trp Lys
 50 55 60
 Asn Ala Val Cys Tyr Asp Pro Ala Gln Phe Ala Met Ser Gly Val Arg
 65 70 75 80
 Asp Ala Asn Val Arg Val Gly Asp Phe Val Val Val Val Gly Leu Gly
 85 90 95
 Ala Ile Gly Gln Ile Ala Ile Gln Leu Ala Lys Lys Ala Gly Ala Ser
 100 105 110
 Val Val Ile Gly Val Asp Pro Ile Glu His Arg Cys Glu Ile Ala Arg
 115 120 125
 Arg His Gly Ala Asp His Cys Leu Asn Pro Ile Gly Thr Asp Val Gly
 130 135 140
 Leu Glu Ile Lys Lys Leu Thr Gly Lys Gln Gly Ala Asp Val Ile Ile
 145 150 155 160
 Glu Thr Ser Gly Phe Ala Asp Ala Leu Gln Ser Ala Leu Arg Gly Leu
 165 170 175
 Ala Tyr Gly Gly Thr Ile Ser Tyr Val Ala Phe Ala Lys Pro Phe Ala
 180 185 190
 Ala Gly Phe Asn Leu Gly Arg Glu Ala His Phe Asn Asn Ala Lys Ile
 195 200 205
 Val Phe Ser Arg Ala Cys Ser Glu Pro Asn Pro Asp Tyr Pro Arg Trp

210 215 220
 Ser Arg Lys Arg Ile Glu Glu Thr Cys Trp Glu Leu Leu Met Asn Gly
 225 230 235 240
 Tyr Leu Asn Cys Glu Asp Leu Ile Asp Pro Val Val Thr Phe Thr Thr
 245 250 255
 Ser Pro Glu Ser Tyr Met Lys Tyr Val Asp Gln His Pro Glu Leu Ser
 260 265 270
 Ile Lys Met Gly Val Thr Phe
 275

<210> 7530

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 7530

Met Leu Arg Met Thr Ser Val Met Ser Ala Ser Thr Pro Leu Pro Leu
 1 5 10 15
 Arg Val Ala Ile Ile Gly Ala Gly Gln Val Ala Asp Lys Val His Ala
 20 25 30
 Ser Tyr Tyr Ala Thr Arg Ser Asp Val Gln Met Val Ala Val Met Asp
 35 40 45
 Ser Arg Leu Glu Gln Ala Gln Ala Phe Ala Glu Arg Tyr Ala Ile Pro
 50 55 60
 Ser Ala Trp Gln Asp Ala His Glu Met Leu Gln Glu Val Lys Pro Asp
 65 70 75 80
 Val Val Ser Val Cys Ser Pro Asn Arg Phe His Phe Glu His Val Met
 85 90 95
 Ala Ala Leu Glu Ala Gly Cys His Val Met Cys Glu Lys Pro Pro Ala
 100 105 110
 Met Thr Pro His Gln Ala Asp Glu Met Arg Leu Ala Ala Arg Lys Ala
 115 120 125
 Gly Lys Val Leu Ala Tyr Asp Phe His His Arg Phe Ala Leu Asp Thr
 130 135 140
 Gln His Leu Arg Asp Ala Val Met Asn Gly Thr Leu Gly Glu Ile Tyr
 145 150 155 160
 Phe Thr Ser Ala Gln Ala Leu Arg Arg Cys Gly Val Pro Gly Trp Gly
 165 170 175
 Val Phe Thr Asn Lys Ser Leu Gln Gly Gly Gly Pro Leu Ile Asp Ile
 180 185 190
 Gly Ile His Met Leu Asp Ala Ala Met Tyr Val Leu Gly Phe Pro Pro
 195 200 205
 Val Lys Arg Val Thr Ala His Ser Phe Gln Arg Leu Gly Asn Arg Lys
 210 215 220
 His Thr Gly Gln Phe Gly Glu Trp Asp Pro Ala Gln Phe Thr Val Glu
 225 230 235
 Asp Ala Leu Phe Gly Thr Ile Glu Phe Cys Asn Gly Gly Ile Leu Arg
 245 250 255
 Leu Asp Thr Ser Phe Ala Leu Asn Ile Arg Glu Gln Ser Ile Met Asn
 260 265 270
 Val Ser Phe Cys Gly Glu Lys Ala Gly Ala Thr Leu Phe Pro Ala His
 275 280 285
 Ile Tyr Asn Asp Glu Ala Gly Val Leu Gln Thr Leu Thr Gln Arg Glu
 290 295 300
 Glu Ala Asp Asp Arg Arg His Leu Arg Ser Met Asp Ala Phe Val Arg
 305 310 315 320
 His Val Leu Gly Glu Pro Val Met Ile Ala Asp Ala Glu Gln Gly Leu
 325 330 335
 Val Ile Gln Gln Leu Val Ala Ala Leu Tyr Glu Ala Ala Glu Thr Gly
 340 345 350
 Glu Ser Val Thr Leu Cys

355

<210> 7531

<211> 255

<212> PRT

<213> *Enterobacter cloacae*

<400> 7531

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Arg Cys Gly Val Lys Arg Cys Met Tyr Gln Gly Gly Arg Ser Val Asn
1      5      10      15
Val Arg Thr Phe Leu Tyr Leu Leu Met Gly Pro Leu Pro Arg Arg Gly
20      25      30
Ala Met Thr Leu Asn Ala Val Val Phe Asp Leu Asp Gly Val Ile Thr
35      40      45
Asp Thr Ala His Leu His Phe Leu Ala Trp Arg Ala Val Ala Glu Glu
50      55      60
Ile Gly Ile Thr Phe Asp Glu Val Phe Asn Glu Gln Leu Lys Gly Ile
65      70      75      80
Ser Arg Met Asp Ser Leu Gln Arg Ile Leu Ile His Gly Gly Lys Glu
85      90      95
Gly Met Phe Ser Asp Glu Gln Arg Leu Ala Leu Ala Arg Lys Lys Asn
100     105     110
Ala Leu Tyr Val Gln Ser Leu Ser Ser Leu Thr Gln Asp Ser Leu Leu
115     120     125
Pro Gly Ile Arg Asp Val Leu Ala Asp Ile Arg Ala Ala Lys Val Lys
130     135     140
Ile Gly Leu Ala Ser Val Ser Leu Asn Ala Pro Gly Ile Leu His Ala
145     150     155     160
Leu Gly Ile His Gln Ala Phe Asp Phe Cys Ala Asp Ala Ser Arg Ile
165     170     175
Ser Arg Ser Lys Pro Asp Pro Glu Ile Phe Leu Ala Ala Cys Lys Gly
180     185     190
Leu Asn Val Arg Pro Glu Glu Ala Ile Gly Ile Glu Asp Ala Ala Ala
195     200     205
Gly Val Asp Ala Ile Asn Ala Ala Gly Met Leu Ser Val Gly Ile Gly
210     215     220
Pro Gly Leu Asn His Ala Gly Leu Gln Leu His Ser Thr Gln Glu Leu
225     230     235     240
Thr Trp Glu Arg Leu Thr Ala Phe Trp Ala Ser Arg Ala Tyr
245     250     255

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<210> 7532

<211> 309

<212> PRT

<213> *Enterobacter cloacae*

<400> 7532

```

Arg Asn Ile Leu Met Ser Thr Leu Leu Arg Ser Ala Ala Leu Val Leu
1      5      10      15
Cys Ala Gly Val Ser Cys Ala Gln Ala Thr Glu Ser Ala Lys Gln Trp
20      25      30
Glu Phe Asn Ile Gly Ala Met Tyr Glu Ile Glu Asn Val Glu Gly Gln
35      40      45
Ala Asp Asp Lys Asp Gly Leu Tyr Glu Pro Ser Val Trp Phe Asn Ala
50      55      60
Thr Trp Asp Ala Trp Thr Ile Ser Leu Ala Met Tyr Gln Glu Gly Pro
65      70      75      80
Val Asp Tyr Ser Ser Met Thr Arg Gly Thr Tyr Phe Asp Arg Pro Glu
85      90      95
Val Glu Leu Arg Tyr Arg Ile Ile Gly Thr Asp Asp Phe Thr Leu Gly
100     105     110

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Leu Thr Gly Gly Phe Arg Asn Tyr Ser Tyr His Phe Lys Asp Glu Asp
 115 120
 Gly Ala Lys Ala Gly Ser Ala Asn Met Gln Arg Tyr Lys Ile Gln Pro
 130 135 140
 Asp Trp Asp Val Lys Leu Thr Asp Asp Trp Arg Phe Gly Gly Trp Phe
 145 150 155 160
 Ala Met Tyr Gln Phe Ala Asn Asp Leu Ala Lys Thr Gly Tyr Ser Asp
 165 170 175
 Ser Arg Val Glu Thr Glu Thr Gly Phe Thr Trp Thr Ile Asn Glu Thr
 180 185 190
 Val Ser Ala Lys Val Asn Tyr Tyr Leu Glu Arg Gly Phe Asn Met Asp
 195 200 205
 Ser Ser Arg Asn Asn Gly Glu Phe Ser Thr Gln Glu Ile Arg Ala Tyr
 210 215 220
 Leu Pro Ile Ser Leu Gly Gln Thr Thr Leu Thr Pro Tyr Thr Arg Leu
 225 230 235 240
 Gly Leu Asp Arg Trp Ser Asn Trp Asp Trp Gln Asp Asp Pro Glu Arg
 245 250 255
 Glu Gly His Asp Phe Asn Arg Leu Gly Met Leu Tyr Ala Tyr Asp Phe
 260 265 270
 Asn Asn Gly Leu Ser Met Thr Leu Glu Tyr Ala Tyr Glu Trp Glu Asn
 275 280 285
 His Asp Glu Gly Glu Ser Asp Arg Phe His Tyr Ala Gly Ile Gly Val
 290 295 300
 Asn Tyr Ala Phe
 305

<210> 7533

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 7533

Cys Met Ser Ser Ala Val Ser Thr Ala Asn Gln Phe Ser Ala Phe Pro
 1 5 10 15
 Ala Cys Lys Glu Ser Val Met Arg Ser Val Lys Val Tyr Glu Glu Ala
 20 25 30
 Trp Pro Leu His Thr Pro Phe Val Ile Ser Arg Gly Ser Arg Asn Glu
 35 40 45
 Ala Cys Val Val Val Val Glu Cys Glu Glu Asp Gly Val Lys Gly Val
 50 55 60
 Gly Glu Cys Thr Pro Tyr Pro Arg Tyr Gly Glu Ser Leu Ala Ser Val
 65 70 75 80
 Met Ala Gln Ile Met Thr Val Val Pro Glu Leu Gln Ala Gly Leu Thr
 85 90 95
 Arg Glu Ala Leu Gln Leu Arg Leu Pro Ala Gly Ala Ala Arg Asn Ala
 100 105 110
 Ile Asp Cys Ala Leu Trp Ser Leu Glu Ala Ala Lys Arg Gln Lys Pro
 115 120 125
 Leu Pro Ala Leu Leu Asp Val Thr Leu Pro Gln Ser Ile Val Thr Ala
 130 135 140
 Gln Thr Val Val Ile Gly Glu Pro Glu Gln Met Ala Ala Ser Ala Gln
 145 150 155 160
 Ala Leu Tyr Ala Thr Gly Ala Thr Leu Leu Lys Val Lys Leu Asp Asp
 165 170 175
 Arg Leu Ile Ser Glu Arg Met Val Ala Ile Arg Ala Ala Val Pro Asp
 180 185 190
 Ala Thr Leu Ile Val Asp Ala Asn Glu Ser Trp His Ser Glu Gly Leu
 195 200 205
 Ala Ala Arg Cys Gln Leu Leu Ala Asp Leu Gly Val Ala Met Leu Glu
 210 215 220

Gln Pro Leu Pro Ala Glu Asp Asp Ala Ala Leu Ala Asn Phe Ile His
 225 230 235 240
 Pro Leu Pro Val Cys Ala Asp Glu Ser Cys His Thr Arg Glu Ser Leu
 245 250 255
 Ser Ala Leu Lys Gly Arg Tyr Glu Met Val Asn Ile Lys Leu Asp Lys
 260 265 270
 Thr Gly Gly Leu Thr Glu Ala Leu Ala Gln Asp Ala Gln Ala
 275 280 285
 Gln Gly Phe Ala Leu Met Leu Gly Cys Met Leu Cys Thr Ser Arg Ala
 290 295 300
 Ile Gly Ala Ala Leu Pro Leu Val Asn Ser Val Arg Phe Ala Asp Leu
 305 310 315 320
 Asp Gly Pro Thr Trp Leu Ala Val Asp Val Ser Pro Ala Leu Asn Phe
 325 330 335
 Thr Ser Gly Val Leu His Leu
 340

<210> 7534

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 7534

Ser Met Ser Ile Ser Thr Arg Asn Ser Val Ser Lys Trp Ala Ser Leu
 1 5 10 15
 Phe Lys Leu Arg Thr Ala Ile Met Lys Ile Ala Thr Gln Asn Gln Ala
 20 25 30
 Phe Phe Pro Thr Ala Ile Met Glu Lys Phe Glu Tyr Ile Lys Ala Met
 35 40 45
 Gly Phe Asp Gly Tyr Glu Ile Asp Gly Arg Leu Leu Val Glu Asn Leu
 50 55 60
 Asp Glu Val Lys Ala Ala Ile Lys Ala Thr Gly Leu Pro Val Thr Thr
 65 70 75 80
 Ala Cys Gly Gly Tyr Asp Gly Trp Ile Gly Asp Phe Ile Glu Glu Arg
 85 90 95
 Arg Leu Asn Gly Leu Gln Gln Ile Glu Arg Ile Leu Glu Ala Leu Ala
 100 105 110
 Glu Val Gly Gly Lys Gly Ile Ile Val Pro Ala Ala Trp Gly Met Phe
 115 120 125
 Thr Phe Arg Leu Pro Pro Met Thr Ser Pro Arg Ser Leu Asp Gly Asp
 130 135 140
 Arg Lys Ala Val Ser Ala Ser Leu Arg Trp Leu Asp Glu Val Ala Ala
 145 150 155 160
 Arg Thr Gly Thr Thr Val Tyr Leu Glu Pro Leu Asn Arg Tyr Gln Asp
 165 170 175
 His Met Ile Asn Thr Leu Ala Asp Ala Arg Arg Tyr Ile Glu Glu Asn
 180 185 190
 Gly Leu Lys His Val Gln Ile Ile Gly Asp Phe Tyr His Met Asn Ile
 195 200 205
 Glu Glu Asp Ser Leu Thr Glu Ala Leu His Gln Asn Arg Asp Leu Leu
 210 215 220
 Gly His Val His Ile Ala Asp Asn His Arg Tyr Gln Pro Gly Ser Gly
 225 230 235 240
 Ser Leu Asp Phe Ala Ser Leu Phe Asp Gln Leu Arg Ala Asp Asn Tyr
 245 250 255
 Gln Gly Tyr Val Val Tyr Glu Cys Arg Val Arg Ala Asp Asp Pro Ala
 260 265 270
 Gln Ala Tyr Lys Asp Ser Leu Thr Tyr Leu Arg Glu Cys
 275 280 285

<210> 7535

<211> 375

<212> PRT

<213> *Enterobacter cloacae*

<400> 7535

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Arg Arg Ser Gly His Pro Gly Arg Ile Asp Lys Glu Leu Ile Met Ala
1      5      10      15
Gln Leu Ser Leu Lys His Ile Gln Lys Ile Tyr Asp Asn Gln Val His
20      25      30
Val Val Lys Asp Phe Asn Leu Glu Ile Glu Asp Lys Glu Phe Ile Val
35      40      45
Phe Val Gly Pro Ser Gly Cys Gly Lys Ser Thr Thr Leu Arg Met Ile
50      55      60
Ala Gly Leu Glu Glu Ile Ser Ala Gly Glu Leu Ile Ile Asp Gly Val
65      70      75      80
Cys Met Asn Asp Val Pro Ala Lys Ser Arg Asp Ile Ala Met Val Phe
85      90      95
Gln Asn Tyr Ala Leu Tyr Pro His Met Thr Val Tyr Asp Asn Met Ala
100     105     110
Phe Gly Leu Lys Met Gln Lys Ile Ala Pro Ser Val Ile Glu Glu Arg
115     120     125
Val Thr Trp Ala Ala Gln Ile Leu Gly Leu Arg Asp Tyr Leu Gln Arg
130     135     140
Lys Pro Gly Ala Leu Ser Gly Gly Gln Arg Gln Arg Val Ala Leu Gly
145     150     155     160
Arg Ala Ile Val Arg Glu Ala Gly Val Phe Leu Met Asp Glu Pro Leu
165     170     175
Ser Asn Leu Asp Ala Lys Leu Arg Val Gln Met Arg Ala Glu Ile Ser
180     185     190
Lys Leu His Gln Lys Leu Asn Thr Thr Met Ile Tyr Val Thr His Asp
195     200     205
Gln Thr Glu Ala Met Thr Met Ala Thr Arg Ile Val Ile Leu Lys Asp
210     215     220
Gly Ile Ile Gln Gln Val Gly Ala Pro Lys Gln Val Tyr Asn Glu Pro
225     230     235     240
Ala Asn Met Phe Val Ala Gly Phe Ile Gly Ser Pro Ala Met Asn Phe
245     250     255
Ile Arg Gly Ala Ile Asp Asp Arg Tyr Phe Val Thr Glu Thr Leu Arg
260     265     270
Leu Glu Ile Pro Glu Asp Lys Leu Ala Val Leu Asn Ala Gln Gly Tyr
275     280     285
Gln Arg Lys Ala Val Val Phe Gly Ile Arg Pro Glu Asp Ile Leu Thr
290     295     300
Val Gln Arg Ser Gly Glu Asn Ile Thr Ala Lys Ile Ser Val Ala Glu
305     310     315     320
Leu Thr Gly Ala Glu Phe Met Leu Tyr Ala Thr Val Gly Gly His Glu
325     330     335
Leu Val Val Arg Ala Gly Ala Ala Asp Asp Tyr Val Ala Gly Asp Asn
340     345     350
Ile Gly Ile Gln Phe Asp Met Asn Lys Cys His Phe Phe Asp Ala Asp
355     360     365
Thr Glu Thr Ala Ile Arg
370      375

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<210> 7536

<211> 353

<212> PRT

<213> *Enterobacter cloacae*

<400> 7536

Ile Ala Met Thr Glu Pro Leu Lys Pro Arg Ile Asp Phe Thr Gly Gln

1				5						10				15
Leu	Glu	Gln	Thr	Pro	His	Glu	Ala	Phe	Lys	Thr	Ala	Gln	Thr	Phe
			20					25				30		
Gly	Pro	Gln	Ala	Asp	Asn	Phe	Ala	Pro	Val	Leu	Ala	Asp	Glu	Pro
		35				40						45		Met
Val	Glu	Glu	Gly	Gln	Ala	Glu	Ala	Val	Val	Asp	Ala	Ala	Leu	Arg
	50					55				60				Pro
Lys	Arg	Ser	Leu	Trp	Arg	Lys	Met	Val	Thr	Ala	Gly	Leu	Ala	Leu
65					70				75					80
Gly	Val	Ser	Val	Ile	Gly	Gln	Gly	Val	Gln	Trp	Gly	Val	Asn	Ala
				85				90					95	Trp
Gln	Thr	Gln	Asp	Trp	Val	Ala	Leu	Gly	Gly	Cys	Ala	Ala	Gly	Ala
			100					105				110		Leu
Ile	Val	Gly	Ala	Gly	Val	Gly	Ser	Val	Val	Ser	Glu	Trp	Arg	Arg
		115				120					125			Leu
Trp	Arg	Leu	Arg	Gln	Arg	Ala	His	Glu	Arg	Asp	Glu	Ala	Arg	Asp
	130					135				140				Leu
Leu	His	Ser	His	Gly	Thr	Gly	Lys	Gly	Arg	Ala	Phe	Cys	Glu	Lys
145				150					155					160
Ala	Ala	Gln	Ala	Gly	Ile	Asp	His	Ser	His	Pro	Ala	Leu	Gln	Arg
			165						170					175
Tyr	Ala	Ala	Ile	His	Glu	Thr	Gln	Asn	Asp	Gln	Glu	Val	Val	Thr
		180						185				190		Leu
Tyr	Ala	His	Ile	Val	Gln	Pro	Val	Leu	Asp	Ala	Gln	Ala	Arg	Arg
	195					200				205				Glu
Ile	Ser	Arg	Ser	Ala	Ala	Glu	Ser	Thr	Leu	Met	Ile	Ala	Val	Ser
	210					215				220				Pro
Leu	Ala	Met	Val	Asp	Met	Ala	Phe	Ile	Ala	Trp	Arg	Asn	Leu	Arg
225				230					235					240
Ile	Asn	Arg	Ile	Ala	Arg	Leu	Tyr	Gly	Ile	Glu	Leu	Gly	Tyr	Tyr
			245					250					255	Ser
Arg	Leu	Arg	Leu	Phe	Lys	Leu	Val	Leu	Leu	Asn	Ile	Ala	Phe	Ala
		260						265					270	Gly
Ala	Ser	Glu	Leu	Val	Arg	Glu	Val	Gly	Met	Asp	Trp	Met	Ser	Gln
		275				280				285				Asp
Leu	Ala	Ala	Arg	Leu	Ser	Ala	Arg	Ala	Ala	Gln	Gly	Ile	Gly	Ala
	290					295				300				Gly
Leu	Leu	Thr	Ala	Arg	Leu	Gly	Ile	Lys	Ala	Met	Glu	Val	Cys	Arg
305				310					315					320
Leu	Pro	Trp	Ile	Asp	Gly	Asp	Lys	Pro	Arg	Leu	Gly	Asp	Phe	Arg
			325					330					335	Arg
Glu	Leu	Ile	Gly	Gln	Leu	Lys	Glu	Thr	Leu	Asn	Lys	Lys	Pro	Ala
		340					345					350		Gln

<210> 7537

<211> 546

<212> PRT

<213> Enterobacter cloacae

<400> 7537

Ser	Cys	Gly	Leu	Ser	Ile	Phe	Val	Asp	Ser	His	Leu	Pro	Glu	His
1				5					10				15	
Asp	Leu	Thr	Tyr	His	Phe	Thr	Val	Ile	Gly	Leu	Asn	Gly	Glu	Phe
		20						25				30		Pro
Met	Arg	Leu	Glu	Val	Phe	Cys	Glu	Asp	Arg	Leu	Gly	Leu	Thr	Arg
		35				40					45			Glu
Leu	Leu	Asp	Leu	Leu	Val	Leu	Arg	Ser	Ile	Asp	Leu	Arg	Gly	Ile
	50				55				60					Glu
Ile	Asp	Pro	Val	Gly	Arg	Ile	Tyr	Leu	Asn	Phe	Ala	Glu	Ile	Glu

[illegible]

<210> 7538

<211> 770

<212> PRT

<213> *Enterobacter cloacae*

<400> 7538

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Ser Arg Gly Asn Arg Gly Lys Arg Asp Val Met Leu Asn Gln Ser Val
1      5      10      15
Leu Thr Asp Pro Ser Phe Cys Pro His Ser Leu Asn Lys Tyr Ala Ser
20     25     30
Ile Met Ala Cys Gly Asn Gly Tyr Met Gly Ile Arg Ala Thr His Glu
35     40     45
Glu Asp Tyr Thr Gln Gln Thr Arg Gly Met Tyr Leu Ala Gly Leu Tyr
50     55     60
His Arg Ala Gly Arg Asn Glu Thr Thr Glu Ile Ile Asn Leu Pro Asp
65     70     75     80
Val Thr Gly Val Glu Val Glu Leu Asp Gly Val Asn Phe Thr Leu Leu
85     90     95
Ser Gly Glu Ile Leu Glu Trp Gln Arg Glu Leu Ala Phe Ala Asn Gly
100    105    110
Glu Leu His Arg Asn Val Val Trp Arg Ser Pro Asp Gly Lys Arg Tyr
115    120    125
Arg Leu Glu Ser Arg Arg Phe Val Ser Leu Asp Gln Leu Pro Leu Val
130    135    140
Ala Met Arg Leu Ser Ile Thr Pro Leu Asp Gly Ala Ala Gln Ala Val
145    150    155    160
Leu Lys Thr Gly Ile Asp Ala Thr Gln Thr Asn Ser Gly Arg Gln His
165    170    175
Leu Asp Glu Ile Ser Val Arg Val Phe Asp Gln His Tyr Met Gln Gly
180    185    190
Val Tyr Glu Thr Gln Asp Arg Ala Ser Glu Val Val Val Ser Ala Phe
195    200    205
Cys Gln Leu Ser Ala Gln Ser Asp Ser Cys Phe Thr Ala Lys Asn Arg
210    215    220
Arg Leu Ser Val His His Ser Leu Thr Ile Ser Gln Gly Asp Thr Val
225    230    235    240
Thr Leu Glu Lys Ile Val Trp Leu Thr His Arg Ser Asp Lys Ala Leu
245    250    255
Ser Gln Glu Ser Phe Ala Arg Asn Ala Leu Ala Asp Leu Lys Val Cys
260    265    270
Ala Ala Arg Gly Tyr Asp Ala Leu Leu Glu Ser Ser Ala Tyr Ala Trp
275    280    285
Glu Ala Val Trp Arg Asp Ala Arg Val Glu Val Thr Cys Ala Glu Gln
290    295    300
Gln Asp Gln Leu Ala Leu Asp Tyr Ala Val Trp His Leu Thr Thr Met
305    310    315    320
Thr Pro Ala His Ser Glu Arg Ser Ser Ile Ala Ala Lys Gly Leu Thr
325    330    335
Gly Glu Gly Tyr Lys Gly His Val Phe Trp Asp Thr Glu Ile Phe Leu
340    345    350
Leu Pro Phe His Leu Phe Thr Arg Pro Gln Ile Ala Arg Ser Leu Leu
355    360    365
Arg Tyr Arg Trp Leu Asn Leu Ser Gly Ala Arg Glu Lys Ala Arg Arg
370    375    380
Asn Gly Trp Pro Gly Ala Leu Phe Pro Trp Glu Ser Ala Ala Ser Gly
385    390    395    400
Glu Glu Glu Thr Pro Glu Phe Ala Ala Ile Asn Ile Arg Thr Gly Val
405    410    415
Arg Gln Lys Val Ala Ser Ala Leu Ala Glu His His Ile Val Ala Asp
420    425    430

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Ile Ala Trp Ala Val Val Ala Tyr Trp Gln Ala Thr His Asp Asp Ala
 435 440
 Phe Met Arg Asn Glu Gly Leu Thr Leu Leu Met Glu Thr Ala Ser Phe
 450 455
 Trp Met Gly Arg Ala Thr Glu Ile Asn Gly Arg Leu Glu Ile His Asp
 465 470 475 480
 Val Ile Gly Pro Asp Glu Tyr Thr Glu His Val Asn Asn Asn Ala Tyr
 485 490 495
 Thr Asn Tyr Leu Ala Trp His Asn Val Ala Cys Ala Arg Gln Phe Met
 500 505 510
 Ala Lys Phe Gly Arg Glu Asp Ala Arg Phe Thr Glu Asn Ala Gly Lys
 515 520 525
 Phe Leu Ala Arg Leu Trp Leu Pro Glu Ala Asp Ala Glu Gly Val Ile
 530 535 540
 Pro Gln Asp Asp Thr Phe Met Ala Lys Pro Ala Ile Asp Leu Ser Arg
 545 550 555 560
 Tyr Lys Ala Lys Ala Gly Lys Gln Thr Ile Leu Leu Asp Tyr Ser Arg
 565 570 575
 Ala Glu Val Asn Glu Met Gln Ile Leu Lys Gln Ala Asp Val Val Met
 580 585 590
 Leu Asn Tyr Leu Leu Pro Glu Arg Phe Thr Pro Gln Gln Cys Ala Ala
 595 600 605
 Asn Leu Ala Phe Tyr Glu Pro Arg Thr Ile His Asp Ser Ser Leu Ser
 610 615 620
 Lys Ala Ile His Gly Ile Val Leu Ala Arg Cys Gly Asp Thr Glu Gly
 625 630 635 640
 Ala Tyr Ala Phe Trp Arg Asp Gly Ile Ala Ile Asp Leu Gly Asp Asp
 645 650 655
 Pro His Ser Ser Asp Asp Gly Ile His Ala Ala Thr Gly Ala Ile
 660 665 670
 Trp Leu Gly Ala Ile Gln Gly Phe Ala Gly Leu His Ile Ser Glu Gly
 675 680 685
 Glu Leu His Leu Ala Pro Lys Leu Pro Ala His Trp Gln Lys Leu Ala
 690 695 700
 Phe Pro Leu Arg Trp Arg Gly Ala Thr Met His Ile Thr Cys Glu Asp
 705 710 715 720
 Asp Leu Leu Thr Ile Glu Thr Thr Ala Pro Val Thr Leu Thr Leu Trp
 725 730 735
 Gly Lys Thr Leu His Val Ser Gly Arg Lys Val Cys Glu Arg Lys Asp
 740 745 750
 Phe Leu Val Pro Val Asn Gly Thr Ala Thr Thr Glu Gly Arg His Asp
 755 760 765
 Ala
 770

<210> 7539

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 7539

Arg Thr Ala Met Lys Arg Leu Lys Asn Glu Phe Asn Ser Leu Val Asn
 1 5 10 15
 Arg Gly Val Asp Arg His Leu Arg Leu Ala Val Thr Gly Leu Ser Arg
 20 25 30
 Ser Gly Lys Thr Ala Phe Ile Thr Ala Met Val Asn Gln Leu Leu Asn
 35 40 45
 Leu His Ala Gly Ala Arg Leu Pro Leu Leu Ser Ala Val Arg Glu Glu
 50 55 60
 Arg Leu Leu Gly Val Lys Arg Val Pro Gln Arg Asp Phe Gly Ile Pro
 65 70 75 80

Arg Phe Thr Tyr Asp Glu Gly Leu Ala Gln Leu Tyr Gly Glu Pro Pro
 85 90 95
 Ala Trp Pro Thr Pro Thr Arg Gly Val Ser Glu Ile Arg Leu Ala Leu
 100 105 110
 Arg Phe Arg Ser Asn Glu Ser Leu Met Arg His Phe Lys Glu Thr Ser
 115 120 125
 Thr Leu Tyr Leu Glu Ile Val Asp Tyr Pro Gly Glu Trp Leu Leu Asp
 130 135 140
 Leu Pro Met Leu Ala Gln Asp Tyr Leu Asn Trp Ser Arg Gln Met Thr
 145 150 155 160
 Gly Leu Leu Gln Gly Gln Arg Ala Glu Trp Ser Thr Gln Trp Arg Gln
 165 170 175
 Leu Cys Glu Gly Leu Asp Pro Leu Ala Pro Ala Asp Glu Asn Arg Leu
 180 185 190
 Ala Val Ile Ala Glu Ala Trp Thr Asp Tyr Leu His Gln Cys Lys Gln
 195 200 205
 Glu Gly Leu His Phe Ile Gln Pro Gly Arg Phe Val Leu Pro Gly Asp
 210 215 220
 Leu Ala Gly Ala Pro Ala Leu Gln Phe Phe Pro Trp Pro Asp Val Asp
 225 230 235 240
 Ser Ile Gly Glu Ser Lys Leu Ala Gln Ala Asp Lys Thr Thr Asn Ala
 245 250 255
 Gly Met Leu Arg Glu Arg Tyr Asn Tyr Tyr Cys Glu Lys Val Val Lys
 260 265 270
 Gly Phe Tyr Lys Asn His Phe Leu Arg Phe Asp Arg Gln Ile Val Leu
 275 280 285
 Val Asp Cys Leu Gln Pro Leu Asn Ser Gly Pro Gln Ala Phe Asn Asp
 290 295 300
 Met Arg Leu Ala Leu Thr Gln Leu Met Gln Ser Phe His Tyr Gly Gln
 305 310 315 320
 Arg Thr Leu Phe Arg Arg Leu Phe Ser Pro Val Ile Asp Lys Leu Leu
 325 330 335
 Phe Ala Ala Thr Lys Ala Asp His Val Thr Val Asp Gln His Ala Asn
 340 345 350
 Met Val Ser Leu Leu Gln Gln Leu Val Gln Asp Ala Trp Gln Asn Ala
 355 360 365
 Ala Phe Glu Gly Ile Ser Met Asp Cys Leu Gly Leu Ala Ser Val Gln
 370 375 380
 Ala Thr Gln Ser Gly Leu Ile Asp Leu Asn Gly Glu Lys Ile Pro Ala
 385 390 395 400
 Leu Arg Gly Asn Arg Leu Ser Asp Gly Glu Pro Leu Thr Val Tyr Pro
 405 410 415
 Gly Glu Val Pro Ala Arg Leu Pro Gly Gln Ala Phe Trp Gln Ser Gln
 420 425 430
 Gly Phe Gln Phe Glu Ala Phe Arg Pro Gln Ser Met Asn Val Asp Gln
 435 440 445
 Pro Leu Pro His Ile Arg Leu Asp Ala Ala Leu Glu Phe Leu Ile Gly
 450 455 460
 Asp Lys Leu Arg
 465

<210> 7540

<211> 542

<212> PRT

<213> Enterobacter cloacae

<400> 7540

Gly Asp Arg Met Lys His Pro Val Ser Leu Leu Cys Thr Ala Leu Trp
 1 5 10 15
 Leu Cys Gly Leu Ser Ser Leu Ser Tyr Ala Ala Glu Val Pro Glu Gly
 20 25 30

Thr Val Leu Ala Gln Lys Gln Glu Leu Val Arg His Ile Lys Asp Glu
 35 40 45
 Pro Ala Ser Leu Asp Pro Ala Lys Ala Val Gly Leu Pro Glu Ile Gln
 50 55 60
 Val Ile Arg Asp Leu Tyr Glu Gly Leu Val Asn Gln Asn Glu Lys Gly
 65 70 75 80
 Glu Leu Val Pro Gly Val Ala Thr Arg Trp Gln Ser Asn Asp Asn Arg
 85 90 95
 Val Trp Thr Phe Thr Leu Arg Asp Asn Ala Lys Trp Ser Asp Gly Thr
 100 105 110
 Pro Val Thr Ala Gln Asp Phe Val Tyr Ser Trp Arg Arg Leu Val Asp
 115 120 125
 Pro Lys Thr Thr Ser Pro Phe Ala Trp Phe Ala Ala Gly Ile
 130 135 140
 Asn Asn Ala Gln Ser Ile Ile Asp Gly Lys Ala Ala Pro Asp Thr Leu
 145 150 155 160
 Gly Val Thr Ala Val Asp Ala Lys Thr Leu Arg Val Gln Leu Asp Lys
 165 170 175
 Pro Leu Pro Trp Phe Ser Asn Leu Thr Ala Asn Phe Ala Phe Tyr Pro
 180 185 190
 Val Gln Lys Ala Asn Val Glu Ser Gly Lys Glu Trp Thr Arg Pro Gly
 195 200 205
 Ala Leu Ile Gly Asn Gly Ala Tyr Val Leu Lys Asp Arg Val Val Asn
 210 215 220
 Glu Lys Leu Val Val Glu Pro Asn Ser His Tyr Trp Asp Asn Ala Arg
 225 230 235 240
 Thr Val Leu Lys Lys Val Thr Phe Val Pro Ile Asn Gln Glu Ser Ser
 245 250 255
 Ala Thr Lys Arg Tyr Leu Ala Gly Asp Ile Asp Ile Thr Glu Ser Phe
 260 265 270
 Pro Lys Asn Met Tyr Gln Lys Leu Lys Asp Ile Pro Gly Gln Val
 275 280 285
 Tyr Thr Pro Pro Gln Leu Gly Thr Tyr Tyr Tyr Ala Phe Asn Thr Gln
 290 295 300
 Lys Gly Pro Thr Ala Asp Ala Arg Val Arg Leu Ala Leu Ser Met Thr
 305 310 315 320
 Ile Asp Arg Arg Ile Met Ala Glu Lys Val Leu Gly Thr Gly Glu Lys
 325 330 335
 Pro Ala Trp His Phe Thr Pro Asp Val Trp Ala Gly Phe Thr Pro Glu
 340 345 350
 Thr Ser Pro Phe Glu Gln Met Ser Gln Gln Glu Leu Asn Ala Gln Ala
 355 360 365
 Lys Thr Leu Leu Gln Ala Ala Gly Tyr Gly Pro Gln Arg Pro Leu Lys
 370 375 380
 Leu Thr Leu Leu Tyr Asn Thr Ser Glu Asn His Gln Lys Ile Ala Ile
 385 390 395 400
 Ala Val Ala Ser Met Trp Lys Lys Asn Leu Gly Val Asp Val Lys Leu
 405 410 415
 Gln Asn Gln Glu Trp Lys Thr Tyr Ile Asp Ser Arg Asn Thr Gly Asn
 420 425 430
 Phe Asp Val Ile Arg Ala Ser Trp Val Gly Asp Tyr Asn Glu Pro Ser
 435 440 445
 Thr Phe Leu Ser Leu Leu Thr Ser Ser His Ser Gly Asn Ile Ser Arg
 450 455 460
 Phe Asn Asp Pro Ala Tyr Asp Lys Ile Ile His Gln Ala Thr Leu Glu
 465 470 475 480
 Thr Thr Glu Lys Ala Arg Asn Ala Asp Tyr Asn Met Ala Glu Lys Ile
 485 490 495
 Leu Thr Glu Lys Ala Pro Ile Ala Pro Ile Tyr Gln Tyr Thr Asn Gly
 500 505 510
 Arg Leu Ile Lys Pro Trp Val Lys Gly Tyr Pro Ile Asn Asn Pro Glu

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<210> 7541
<211> 366
<212> PRT
<213> Enterobacter cloacae
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<210> 7542
<211> 380
<212> PRT
<213> Enterobacter cloacae
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<400> 7542

Glu Gly Asn Thr Met Ala Glu Val Ile Phe Asn Lys Leu Glu Lys Val
 1 5 10 15
 Tyr Ser Asn Gly Phe Lys Ala Val His Ala Ile Asp Leu Lys Ile Ala
 20 25 30
 Glu Gly Glu Phe Met Val Ile Val Gly Pro Ser Gly Cys Ala Lys Ser
 35 40 45
 Thr Thr Leu Arg Met Leu Ala Gly Leu Glu Thr Ile Ser Gly Gly Glu
 50 55 60
 Val Arg Ile Gly Asp Lys Ile Val Asn Asn Leu Ala Pro Lys Glu Arg
 65 70 75 80
 Gly Ile Ala Met Val Phe Gln Asn Tyr Ala Leu Tyr Pro His Met Thr
 85 90 95
 Val Arg Glu Asn Leu Ala Phe Gly Leu Lys Leu Ser Lys Leu Pro Lys
 100 105 110
 Asp Gln Ile Glu Ser Gln Val Asn Glu Ala Ala Lys Ile Leu Glu Leu
 115 120 125
 Glu Glu Leu Leu Asp Arg Leu Pro Arg Gln Leu Ser Gly Gly Gln Ala
 130 135 140
 Gln Arg Val Ala Val Gly Arg Ala Ile Val Lys Lys Pro Asp Val Phe
 145 150 155 160
 Leu Phe Asp Glu Pro Leu Ser Asn Leu Asp Ala Lys Leu Arg Ala Ser
 165 170 175
 Met Arg Ile Arg Ile Ser Asp Leu His Lys Gln Leu Lys Lys Ser Gly
 180 185 190
 Lys Pro Ala Thr Thr Val Tyr Val Thr His Asp Gln Thr Glu Ala Met
 195 200 205
 Thr Met Gly Asp Arg Ile Cys Val Met Lys Leu Gly His Ile Met Gln
 210 215 220
 Val Asp Thr Pro Asp Asn Leu Tyr His Lys Pro Arg Asn Met Phe Val
 225 230 235 240
 Ala Gly Phe Ile Gly Ala Pro Glu Met Asn Ile Arg Lys Ser Val Leu
 245 250 255
 Val Glu Lys Ala Gly Gln Leu His Ile Ala Ile Gly Asp Glu Thr Met
 260 265 270
 Pro Leu Asn Ala Glu Lys Gln Glu Lys Val Ala Ala Tyr Ala Gly Gln
 275 280 285
 Glu Ile Tyr Tyr Gly Val Arg Pro Glu Phe Val Ser Leu Ser Asp Glu
 290 295 300
 Pro Phe Pro Asn Gly Gly Cys Ser Gly Glu Met Val Arg Val Glu Asn
 305 310 315 320
 Met Gly His Glu Phe Phe Val Tyr Leu Lys Val Ala Asp Tyr Glu Leu
 325 330 335
 Thr Ala Arg Ile Pro Ser Asp Glu Ala Lys Pro Met Ile Asp Lys Gly
 340 345 350
 Leu His Arg Lys Val Tyr Phe Thr Phe Glu Met Asn Lys Cys His Ile
 355 360 365
 Phe Asp Ala Lys Thr Glu Gln Asn Leu Ser Leu
 370 375 380

<210> 7543

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 7543

Met Ala Thr Ile Lys Asp Val Ala Arg Leu Ala Gly Val Ser Val Ala
 1 5 10 15
 Thr Val Ser Arg Val Ile Asn Asn Ser Pro Lys Ala Ser Asp Ala Ser
 20 25 30

Arg Gln Ala Val Gln Asp Ala Met Glu Asn Leu Asn Tyr His Pro Asn
 35 40 45
 Ala Asn Ala Arg Ala Leu Ala Gln Gln Ser Thr Glu Thr Ile Gly Leu
 50 55 60
 Val Val Gly Asp Val Ser Asp Pro Phe Phe Gly Ala Met Val Lys Ala
 65 70 75 80
 Val Glu Gln Val Ser Tyr His Thr Gly Asn Phe Leu Leu Ile Gly Asn
 85 90 95
 Gly Tyr His Asn Glu Gln Lys Glu Arg Gln Ala Ile Glu Gln Leu Ile
 100 105 110
 Arg His Arg Cys Ala Ala Leu Val Val His Ala Lys Met Ile Pro Asp
 115 120 125
 Ala Glu Leu Ile His Leu Met Lys Gln Met Pro Gly Met Val Ile Ile
 130 135 140
 Asn Arg Ile Ile Pro Gly Phe Glu Thr Arg Cys Val Ala Leu Asp Asp
 145 150 155 160
 Arg Tyr Gly Ala Trp Leu Ala Thr Arg His Leu Ile Gln Gln Gly His
 165 170 175
 Thr Arg Ile Gly Tyr Leu Cys Ser Asn His Pro Ile Ser Asp Ala Glu
 180 185 190
 Asp Arg Leu Gln Gly Tyr Tyr Asp Ala Leu Arg Glu Ala Gly Leu Pro
 195 200 205
 Cys Asn Asp Arg Leu Val Ala Tyr Gly Glu Pro Asp Gly Ser Gly Gly
 210 215 220
 Glu Gln Ala Met Thr Glu Leu Leu Gly Arg Gly Arg Asn Phe Thr Ala
 225 230 235 240
 Val Ala Ser Tyr Asn Asp Ser Met Ala Ala Gly Ala Met Gly Val Leu
 245 250 255
 Asn Asp Asn Gly Ile Asp Val Pro Ala Glu Ile Ser Leu Ile Gly Phe
 260 265 270
 Asp Asp Val Leu Val Ser Arg Tyr Val Arg Pro Arg Leu Thr Thr Val
 275 280 285
 Arg Tyr Pro Ile Val Thr Met Ala Thr Gln Ala Ala Glu Leu Ala Leu
 290 295 300
 Ala Leu Ala Glu His Arg Pro Pro Pro Glu Ile Thr His Leu Phe Ser
 305 310 315 320
 Pro Thr Leu Val Arg Arg His Ser Val Val Ser Pro Ala Glu Ala Val
 325 330 335
 Ser Glu Gln Arg
 340

<210> 7544

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 7544

Tyr Gly Thr Arg Ser Ala Ile Arg Cys Pro Met Pro Ala Val Asn Leu
 1 5 10 15
 Arg His Ile Glu Ile Phe His Ala Val Met Thr Thr Gly Asn Leu Thr
 20 25 30
 Glu Ala Ala His Met Leu His Thr Ser Gln Pro Thr Val Ser Arg Glu
 35 40 45
 Leu Ala Arg Phe Glu Lys Val Leu Gly Leu Lys Leu Phe Glu Arg Thr
 50 55 60
 Arg Gly Arg Leu His Pro Thr Val Gln Gly Leu Arg Leu Phe Glu Glu
 65 70 75 80
 Val Gln Arg Ser Trp Tyr Gly Leu Asp Arg Ile Val Ser Ala Ala Glu
 85 90 95
 Ser Leu Arg Glu Phe Arg Gln Gly Glu Leu Ser Ile Val Cys Leu Pro
 100 105 110

Val Phe Ser Gln Ser Phe Leu Pro Val Leu Leu Gln Pro Phe Leu Ala
 115 120 125
 Arg Tyr Pro Glu Val Ser Leu Thr Ile Val Pro Gln Glu Ser Pro Leu
 130 135 140
 Leu Glu Glu Trp Leu Ser Ala Gln Arg His Asp Leu Gly Leu Thr Glu
 145 150 155 160
 Thr Leu Val Thr Pro Ala Gly Thr Glu Arg Thr Glu Leu Leu Ser Leu
 165 170 175
 Asp Glu Val Cys Val Leu Pro Ala Ser His Pro Leu Ala His Lys Thr
 180 185 190
 Val Leu Thr Pro Ala Asp Phe His Gly Glu Asn Tyr Ile Ser Leu Ser
 195 200 205
 Gln Thr Asp Ser Tyr Arg Gln Leu Leu Asp Gly Leu Phe Ala Glu His
 210 215 220
 Gln Val Lys Arg Arg Met Val Met Glu Thr His Ser Ala Ala Ser Ile
 225 230 235 240
 Cys Ala Met Val Arg Ala Gly Val Gly Ile Ser Val Val Asn Pro Leu
 245 250 255
 Thr Ala Met Asp Tyr Ala Ser Ser Gly Val Val Leu Arg Arg Phe Ser
 260 265 270
 Val Ser Val Pro Phe Thr Val Ser Leu Ile Arg Pro Leu His Arg Pro
 275 280 285
 Ala Ser Ala Leu Val Asp Ala Phe Ser Glu His Leu Ile Ala His Ala
 290 295 300
 Arg Gln Val Ala Leu Arg Leu Pro Asp Leu Gln Lys Pro Leu
 305 310 315

<210> 7545

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 7545

Gln Gly Glu Asn Met Phe Ile Phe His Lys Glu Thr Thr Leu Glu Asp
 1 5 10 15
 Leu Gly Asn Gly Val Thr Arg Arg Ile Leu Ala His Asp Gly Arg Met
 20 25 30
 Met Ala Val Glu Val Asn Phe Glu Glu Gly Ala Ile Gly Pro Met His
 35 40 45
 Asn His Pro His Glu Gln Leu Thr Tyr Val Leu Ser Gly Glu Phe Glu
 50 55 60
 Phe Thr Ile Gly Glu Glu Lys His Val Val Thr Ala Gly Asp Thr Leu
 65 70 75 80
 Tyr Lys Ala Pro His Val Met His Gly Cys Val Cys Leu Lys Pro Gly
 85 90 95
 Thr Leu Leu Asp Thr Phe Thr Pro Val Arg Glu Asp Phe Leu Lys
 100 105 110

<210> 7546

<211> 450

<212> PRT

<213> Enterobacter cloacae

<400> 7546

Thr Ser Val Ile Phe Leu Thr Gln Lys Leu Asn Arg Thr Ser Leu Ser
 1 5 10 15
 Asp Gly Val Ile Lys Met Lys Lys Val Leu Leu Ser Ala Ala Ile Ser
 20 25 30
 Ala Thr Leu Gly Leu Thr Ala Leu Pro Ser Met Ala Gln Asn Val Asp
 35 40 45
 Leu Arg Met Ser Trp Trp Gly Gly Asn Gly Arg His Gln Val Thr Leu

50	55	60
Lys Ala Leu Glu Glu Phe	His Lys Gln Asn Pro Asp Ile Asn Val Lys	
65	70	75
Ala Glu Tyr Thr Gly Trp Asp Gly His Leu Ser Arg Leu Thr Thr Gln		80
	85	90
Ile Ala Gly Gly Thr Glu Pro Asp Val Met Gln Thr Asn Trp Asn Trp		95
	100	105
Leu Pro Ile Phe Ser Lys Thr Gly Asp Gly Phe Tyr Asp Leu Asn Lys		110
	115	120
Met Lys Asp Val Ile Asp Leu Ser Gln Phe Asp Pro Lys Glu Leu Gln		125
	130	135
Thr Thr Thr Val Asp Gly Lys Leu Asn Gly Ile Pro Ile Ser Val Thr		140
	145	150
Ala Arg Val Phe Tyr Phe Asn Asp Glu Thr Trp Lys Lys Ala Gly Ile		155
	165	170
Ala Tyr Pro Lys Thr Trp Asp Glu Leu Met Ala Ala Gly Lys Thr Phe		175
	180	185
Glu Ser Lys Leu Gly Lys Gln Tyr Tyr Pro Val Ile Leu Glu His Gln		190
	195	200
Asp Thr Leu Ala Leu Leu Asn Ser Tyr Met Ile Gln Lys Tyr Asn Ile		205
	210	215
Pro Ala Val Asp Glu Lys Thr Lys Lys Phe Ser Tyr Thr Lys Glu Gln		220
	225	230
Trp Val Glu Phe Phe Gln Thr Tyr Lys Lys Leu Ile Asp Ser His Val		235
	245	250
Met Pro Asp Thr Lys Tyr Tyr Ala Ser Phe Gly Lys Ser Asn Met Tyr		255
	260	265
Glu Met Lys Pro Trp Ile Gln Gly Glu Trp Gly Gly Thr Tyr Met Trp		270
	275	280
Asn Ser Thr Ile Asn Lys Tyr Ser Asp Asn Leu Lys Pro Pro Ala Lys		285
	290	295
Leu Glu Leu Gly Asn Tyr Pro Met Leu Pro Gly Ala Thr Asp Ala Gly		300
	305	310
Leu Phe Phe Lys Pro Ala Gln Met Leu Ser Ile Gly Lys Thr Thr Lys		315
	325	330
Asn Pro Glu Ala Ala Ala Lys Leu Ile Asn Phe Leu Leu Asn Ser Lys		335
	340	345
Glu Gly Val Asp Thr Leu Gly Leu Glu Arg Gly Val Pro Leu Ser Lys		350
	355	360
Val Ala Val Gln Tyr Leu Thr Glu Asp Gly Thr Ile Lys Glu Asp Asp		365
	370	375
Pro Ser Val Ala Gly Leu Arg Leu Ala Gln Ser Leu Pro Ala Lys Leu		380
	385	390
Thr Val Ser Pro Tyr Phe Asp Asp Pro Gln Ile Val Ala Gln Phe Gly		395
	405	410
Thr Ser Leu Gln Tyr Ile Asp Tyr Gly Gln Lys Thr Val Glu Glu Thr		415
	420	425
Ala Ala Asp Phe Gln Arg Gln Ala Glu Arg Ile Leu Arg Arg Ala Met		430
	435	440
Arg		445
450		

<210> 7547

<211> 373

<212> PRT

<213> Enterobacter cloacae

<400> 7547

Gly Phe Ala Leu Pro Thr Ser Leu Met Arg Arg Met Val Cys Val Lys	
1	5
Leu Gln Thr Ile Thr Trp Lys Gln Glu Phe Arg Met Ala Thr Met Leu	10
	15

20 25 30
 Asp Val Ser Leu Arg Ala Gly Val Ser Lys Ala Thr Val Ser Arg Val
 35 40 45
 Leu Asn Gly Thr Gly Gln Val Lys Glu Ser Thr Arg Gln Gln Val Phe
 50 55 60
 Arg Ala Met Glu Glu Leu Gly Tyr Arg Pro Asn Phe Leu Ala Arg Ser
 65 70 75 80
 Leu Ala Asn Gln Thr Ser Asn Ser Ile Gly Leu Val Val Ser Thr Phe
 85 90 95
 Asp Gly Phe Tyr Phe Gly Arg Leu Leu Gln Gln Ala Ser Arg Gln Thr
 100 105 110
 Glu Lys His Gly Lys Gln Leu Ile Val Thr Asp Gly His Asp Ala Pro
 115 120 125
 Glu Gln Glu Glu Gln Ala Val Gln Met Leu Ala Asp Arg Lys Cys Asp
 130 135 140
 Ala Ile Val Leu Tyr Thr Arg Tyr Met Ser Glu Lys Thr Ile Leu Lys
 145 150 155 160
 Leu Ile Asn Ser Val Gln Thr Pro Leu Val Ile Ile Asn Arg Glu Val
 165 170 175
 Ser Gln Ala Ala Asp Arg Cys Val Phe Phe Glu Gln Gln Asp Ala Ala
 180 185 190
 Phe Lys Ala Val Asp Tyr Leu Ile Ser Gln Gly His Arg Glu Ile Ala
 195 200 205
 Cys Ile Thr Val Pro Ile His Thr Pro Thr Gly Lys Ala Arg Leu Met
 210 215 220
 Gly Tyr Arg Lys Ala Leu Glu Lys His Gly Ile Arg Leu Asp Glu Arg
 225 230 235 240
 Arg Ile Lys Tyr Gly Asp Ala Gly Met Thr Arg Gly Tyr Glu Leu Cys
 245 250 255
 Lys Glu Leu Ile Ala Glu Lys Thr Ser Phe Ser Ala Leu Phe Ala Cys
 260 265 270
 Asn Asp Asp Met Ala Leu Gly Ala Ser Lys Ala Leu His Gln Ala Gly
 275 280 285
 Leu Lys Ile Pro Gln Asp Ile Ser Leu Phe Gly Phe Asp Asp Ala Pro
 290 295 300
 Ser Ala Lys Trp Leu Glu Pro Ala Leu Ser Ser Val Tyr Leu Pro Ile
 305 310 315 320
 Asp Asn Met Ile Val Thr Ala Ile Asp Gln Ala Ile Arg Leu Thr Lys
 325 330 335
 Asn Gln Pro Val Glu Ala Ile Pro Pro Phe Thr Gly Thr Leu Val Leu
 340 345 350
 Arg Asp Ser Val Thr Thr Gly Pro Trp Phe Asn Gln Thr Ser Ser Asn
 355 360 365
 Ala Ser Ser Ser
 370

<210> 7548

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 7548

Val Cys Met Asn Glu Asn Lys Leu Leu Gly Leu Ala Trp Ile Ser Pro
 1 5 10 15
 Tyr Ile Ile Gly Leu Ile Leu Phe Thr Ala Phe Pro Phe Val Ser Ser
 20 25 30
 Phe Phe Leu Ser Phe Thr Asp Tyr Asp Leu Met Ser Pro Val Phe
 35 40 45
 Asn Gly Ile Glu Asn Tyr Arg Tyr Met Phe Thr Glu Asp Thr Leu Phe
 50 55 60
 Trp Lys Ser Met Gly Val Thr Phe Ala Tyr Val Phe Leu Thr Ile Pro

```

65          70          75          80
Leu Lys Leu Ala Phe Ala Leu Gly Ile Ala Phe Val Leu Asn Phe Lys
      85          90          95
Leu Arg Gly Ile Gly Phe Phe Arg Thr Ala Tyr Tyr Ile Pro Ser Ile
      100          105          110
Leu Gly Ser Ser Val Ala Ile Ala Val Leu Trp Arg Ala Leu Phe Ala
      115          120          125
Ile Asp Gly Leu Leu Asn Ser Phe Ile Gly Val Phe Gly Phe Asp Pro
      130          135          140
Val Asn Trp Leu Gly Glu Pro Ser Leu Ala Leu Met Ser Val Thr Leu
      145          150          155
Leu Arg Val Trp Gln Phe Gly Ser Ala Met Val Ile Phe Leu Ala Ala
      160          165          170
Leu Gln Asn Val Pro Gln Ser Gln Tyr Glu Ala Ala Met Ile Asp Gly
      175          180          185
Ala Ser Lys Trp Gln Met Phe Met Lys Val Thr Val Pro Leu Ile Thr
      190          195          200
Pro Val Ile Phe Phe Asn Phe Ile Met Gln Thr Thr Gln Ala Phe Gln
      205          210          215
Glu Phe Thr Gly Pro Tyr Val Ile Thr Gly Gly Gly Pro Thr Tyr Ser
      220          225          230
Thr Tyr Leu Phe Ser Leu Tyr Ile Tyr Asp Thr Ala Phe Lys Tyr Phe
      235          240          245
Asp Met Gly Tyr Gly Ala Ala Leu Ala Trp Ile Leu Phe Leu Val Val
      250          255          260
Ala Val Phe Ala Gly Ile Ala Phe Lys Ser Ser Lys Tyr Trp Val Phe
      265          270          275
Tyr Ser Ala Asp Lys Gly Gly Lys Asn Gly
      280          285          290
      295

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<210> 7549

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 7549

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Ser Gln Asn Lys Ala Pro Val Gly Ala Ile Phe Gly Ile Pro Ile Val
1          5          10          15
Ser Gly Cys Pro Ser Tyr Ser Ile Lys Ala Leu Leu Leu Arg Tyr Tyr
      20          25          30
Pro Met Ala Phe Gln Glu Lys Leu Ile Asp Ala Leu Gly Ser Phe Ala
      35          40          45
Thr Thr Phe Asn Ser Tyr Arg Tyr Ile Gln Ala Ile Lys Ser Ala Phe
      50          55          60
Ile Thr Leu Met Pro Val Ile Ile Val Gly Ala Phe Ser Val Leu Ile
      65          70          75
Ser Asn Met Val Leu Asp Pro Lys Asn Gly Leu Ala Ser Phe Gln Ser
      80          85          90
Leu Ser Phe Leu Ala Ala Leu Lys Pro Ile Thr Ser Ala Leu Asn Tyr
      95          100          105
Ala Thr Leu Asn Phe Leu Asn Ile Gly Ala Val Phe Leu Ile Gly Ile
      110          115          120
Glu Leu Gly Arg Ile Asn Gly Ile Lys Ser Leu Phe Pro Gly Leu Leu
      125          130          135
Ala Val Ile Cys Phe Ile Cys Val Thr Pro Thr Thr Val Glu Met Leu
      140          145          150
Val Asp Gly Glu Met His Val Val Lys Asp Val Leu Leu Arg Gln Phe
      155          160          165
Ser Asp Thr Arg Ser Leu Phe Leu Gly Met Phe Ile Ala Ile Leu Ser
      170          175          180
Val Glu Ile Tyr Cys Trp Leu Glu Asn Arg Arg Gly Leu Lys Ile Arg
      185          190          195

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      195              200              205
Met Pro Asp Thr Val Pro Pro Asn Val Ala Ala Ser Phe Ser Ala Leu
  210              215              220
Ile Pro Ala Ile Ile Thr Thr Thr Ala Ile Ala Thr Phe Gly Phe Val
  225              230              235
Phe His Gln Ile Thr Gly Met Tyr Leu Tyr Asp Ala Val Tyr Gln Val
      245              250              255
Val Gln Gln Pro Leu Glu Arg Val Val Gln Ser Leu Pro Gly Ile Leu
  260              265              270
Leu Leu Met Phe Val Ala Gln Leu Phe Trp Val Ile Gly Ile His Gly
  275              280              285
Asn Gln Met Ile Lys Pro Ile Arg Glu Pro Leu Leu Leu Gly Ala Ile
  290              295              300
Thr Val Asn Met Ser Ala Phe Glu Gln Gly Lys Glu Val Pro Asn Ile
  305              310              315
Ile Thr Met Pro Phe Trp Asp Val Tyr Met Ser Ile Gly Gly Ser Gly
      325              330              335
Leu Thr Ile Gly Leu Leu Ile Ala Val Met Ile Ala Thr Lys Arg Lys
  340              345              350
Glu Met Lys Glu Ile Ala Lys Leu Ser Ile Gly Pro Gly Ile Phe Asn
  355              360              365
Ile Asn Glu Pro Val Ile Phe Gly Met Pro Ile Met Leu Asn Pro Ile
  370              375              380
Leu Ala Ile Pro Phe Ile Ile Thr Pro Leu Val Thr Gly Ser Ile Gly
  385              390              395
Tyr Phe Ala Thr Val Thr Gly Phe Ala Gly Lys Ala Val Val Met Val
      405              410              415
Pro Trp Thr Thr Pro Pro Leu Ile Asn Ala Trp Leu Ser Thr Ala Gly
  420              425              430
Ser Met Gly Ala Val Ile Thr Gln Phe Ile Cys Ile Val Thr Ala Val
  435              440              445
Ile Ile Tyr Leu Pro Phe Val Lys Ile Ala Ser Arg Arg Ala Glu Gln
  450              455              460
Ala Ala Leu Gln Gln Ala Thr Asp Asn Ala
  465              470              475

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<210> 7550

<211> 498

<212> PRT

<213> *Enterobacter cloacae*

<400> 7550

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Lys Leu Pro His Ala Gln Ser Arg Pro Arg Cys Asn Lys Pro Pro
  1      5      10      15
Ile Thr His Glu Asp Arg Met Ser Ile Lys Gln Ile Thr Ile Pro Gln
  20      25      30
Asp Phe Met Leu Gly Ala Ala Ala Ser Ala Trp Gln Thr Glu Gly Trp
  35      40      45
Ser Gly Lys Lys Pro Gly Gln Asp Ser Trp Ile Asp Leu Trp Tyr Lys
  50      55      60
Asn Asp Arg His Val Trp His Asn Gly Tyr Gly Pro Ala Val Ala Thr
  65      70      75      80
Asp Phe Ile Asn Arg Phe Arg Glu Asp Val Ala Leu Met Lys Gln Ala
      85      90      95
Gly Leu Thr His Tyr Arg Thr Ser Ile Asn Trp Ser Arg Phe Leu Thr
  100      105      110
Asp Tyr Glu Asn Ala Thr Val Asp Glu Glu Tyr Ala Ala Tyr Tyr Asp
  115      120      125
Ala Leu Phe Asp Glu Met His Arg Gln Gly Ile Glu Pro Met Ile Cys
  130      135      140
Leu Glu His Tyr Glu Leu Pro Gly Val Gln Leu Glu Thr Tyr Gly Gly

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145 150 155 160
 Trp Ala Ser Lys His Val Val Glu Leu Phe Val Arg Tyr Ala Glu Lys
 165 170 175
 Val Phe Glu Arg Phe His Gly Lys Val Thr Arg Trp Phe Thr Phe Asn
 180 185 190
 Glu Pro Ile Val Val Gln Thr Arg Val Tyr Leu Asp Ala Leu Arg Trp
 195 200 205
 Pro Tyr Glu Gln Asn Thr Ser Thr Trp Met Gln Trp Asn His His Lys
 210 215 220
 Val Leu Ala Thr Ala Lys Val Val Lys Leu Phe Arg Glu Lys Gly Tyr
 225 230 235 240
 Asp Gly Ser Val Gly Cys Ile Leu Asn Pro Glu Val Thr Tyr Pro Arg
 245 250 255
 Ser Arg Ala Pro His Asp Glu Arg Ala Ala Glu Met Tyr Asp Leu Phe
 260 265 270
 Tyr Asn Arg Val Phe Leu Asp Pro Leu Val His Gly Arg Tyr Pro Gln
 275 280 285
 Ala Leu Phe Thr Leu Leu Ala Gln His Gln Val Gln Trp Asp Tyr Thr
 290 295 300
 Ala Asp Glu Leu Ala Leu Ile Ala Asp Asn Thr Val Asp Glu Leu Gly
 305 310 315 320
 Ile Asn Leu Tyr Tyr Pro His Arg Val Lys Ala Pro Ser Arg Ala Trp
 325 330 335
 His Pro Glu Thr Pro Phe His Pro Ala Tyr Tyr Tyr Glu Pro Phe Glu
 340 345 350
 Leu Pro Gly Arg Arg Met Asn Thr Ser Arg Gly Trp Glu Ile Phe Pro
 355 360 365
 Arg Ile Ile Tyr Asp Met Ala Met Arg Ile Lys Asn Asp Tyr Arg Asn
 370 375 380
 Ile Asp Trp Phe Val Ala Glu Ser Gly Met Gly Val Glu Asn Glu Ala
 385 390 395 400
 Gln Phe Arg Asn Arg Asp Gly Ile Ile Asp Asp Thr Tyr Arg Ile Ala
 405 410 415
 Phe Ile Ser Glu His Leu Tyr Tyr Thr Leu Leu Ala Arg Glu Ala Gly
 420 425 430
 Ala Asn Cys His Gly Tyr Met Leu Trp Ala Phe Thr Asp Asn Val Ser
 435 440 445
 Pro Met Asn Ala Phe Lys Asn Arg Tyr Gly Leu Ile Glu Ile Asp Leu
 450 455 460
 Glu Asn Gln Arg Ala Arg Arg Ala Lys Lys Ser Ala Ser Trp Phe Arg
 465 470 475 480
 Gln Leu Arg Asp Glu Arg Val Leu Thr Leu Arg Val Asp Asp Glu Trp
 485 490 495
 Lys

<210> 7551

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 7551

Leu Lys Asn Thr Gly Glu Asn Val Asp Lys Ala Val Ile Leu Pro Glu
 1 5 10 15
 Lys Lys Gln Tyr Gln Glu Ile Gly Glu Asp Leu Arg Ala Gln Ile Ile
 20 25 30
 Gln Gly His Tyr Pro Val Gly Ser Arg Leu Pro Pro Glu Arg Asn Ile
 35 40 45
 Ala Glu Thr Tyr Gly Val Ser Arg Thr Ile Val Arg Glu Ala Leu Leu
 50 55 60
 Met Leu Glu Leu Gln Gly Thr Val Asp Ile Arg Gln Gly Ser Gly Val

```

65          70          75          80
Tyr Val Met Arg Ile Pro Glu Glu His Glu Asn Glu Glu Glu Arg Phe
      85
Leu Asn Ser Asp Val Gly Pro Phe Glu Ile Leu Gln Ala Arg Gln Leu
      100
Leu Glu Ser Asn Ile Ala Ala Phe Ala Ala Lys Met Ala Thr Arg Ala
      115
Asp Ile Asp Asn Leu Arg Arg Ile Ile Glu Gln Glu Gln Arg Ala Ile
      130
Ala Ala Asp Asp Arg Ser Gln Asp Asn Asn Lys Met Phe His Leu Val
      145
Leu Ala Gly Ala Thr Gln Asn Gln Met Leu Leu Ala Thr Val Glu Ser
      165
Val Trp His His Met Asp Ser Ser Pro Leu Trp Gln Gln Phe Asn Gly
      180
His Ile Ala Ser Arg Ala Trp Arg Leu Lys Trp Leu Gly Asp Arg Gln
      195
Thr Ile Leu Ala Ala Leu Arg Arg Arg Asp Val Met Gly Ala Trp Gln
      210
Ala Met Phe Gln His Leu Glu Asn Val Lys Lys Ser Leu Leu Glu Leu
      225
Ser Asp Glu Asp Ala Pro Asp Phe Asp Gly Tyr Leu Phe Glu Ser Val
      245
Pro Leu Phe Gln Gly Lys Leu Val
      260

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<210> 7552

<211> 774

<212> PRT

<213> Enterobacter cloacae

<400> 7552

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Leu Val Arg Ile Pro Gly Thr Phe Ser Tyr Ser Ser Leu Ala Pro Thr
1      5      10
Cys Ala Asp Ala Gln Val Phe Phe Arg Leu Cys Phe Cys Tyr Arg Ser
      20      25      30
Leu Thr Thr Ser Arg Val Ile Cys His His Leu Tyr Leu Ser His Trp
      35      40      45
Leu Ala Lys Gly Val Glu Met Leu Phe Gly Phe Phe Arg Thr Leu Phe
      50      55      60
Arg Val Leu Phe Arg Ile Arg Val Thr Gly Asp Thr Gln Ala Leu Tyr
      65      70      75
Gly Glu Arg Val Leu Ile Thr Pro Asn His Val Ser Phe Leu Asp Gly
      85      90      95
Val Leu Leu Ala Leu Phe Leu Pro Val Arg Pro Val Phe Ala Val Tyr
      100      105      110
Ser Ser Ile Ser Glu Lys Trp Tyr Met Arg Trp Leu Lys Pro Leu Ile
      115      120      125
Asp Phe Val Pro Leu Asp Pro Thr Lys Pro Met Met Ile Lys His Leu
      130      135      140
Val Arg Leu Ile Gly Gln Gly Arg Pro Val Val Ile Phe Pro Glu Gly
      145      150      155
Arg Ile Ser Val Thr Gly Ser Leu Met Lys Ile Tyr Asp Gly Ala Gly
      165      170      175
Phe Val Ala Ala Lys Ser Gln Ala Thr Val Val Pro Leu Arg Ile Asp
      180      185      190
Gly Ala Glu Leu Thr Phe Phe Ser Arg Leu Lys Gly Leu Val Lys Gln
      195      200      205
Arg Leu Phe Pro Lys Ile Thr Leu His Ile Leu Pro Pro Thr Ser Leu
      210      215      220
Pro Met Pro Glu Ala Pro Arg Ala Arg Asp Arg Arg Lys Ile Ala Gly

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225 230 235 240
 Glu Met Leu His Gln Ile Met Met Glu Ala Arg Met Ala Val Arg Pro
 245 250 255
 Arg Glu Thr Leu Tyr Glu Ser Leu Leu Ser Ala Gln Tyr Arg Tyr Gly
 260 265 270
 Ala Lys Lys Asn Cys Ile Glu Asp Ile Asn Phe Thr Pro Asp Thr Tyr
 275 280 285
 Arg Lys Leu Leu Thr Lys Thr Leu Phe Val Gly Arg Ile Leu Glu Lys
 290 295 300
 Tyr Ser Lys Gln Gly Glu Lys Ile Gly Leu Met Leu Pro Asn Ala Gly
 305 310 315 320
 Ile Ser Ala Ala Val Ile Phe Gly Ala Val Ser Arg Gly Arg Ile Pro
 325 330 335
 Ala Met Met Asn Tyr Thr Ala Gly Val Lys Gly Leu Ser Ser Ala Ile
 340 345 350
 Thr Ala Ala Gln Ile Asn Thr Val Phe Thr Ser Arg Gln Phe Leu Asp
 355 360 365
 Lys Gly Lys Leu Trp His Leu Pro Glu Gln Leu Thr Gln Val Arg Trp
 370 375 380
 Val Phe Leu Glu Asp Leu Lys Ala Asp Val Thr Thr Ala Asp Lys Leu
 385 390 395 400
 Trp Ile Phe Ala His Leu Leu Met Pro Arg Leu Ala Gln Val Lys Gln
 405 410 415
 Gln Pro Glu Asp Asp Ala Ile Ile Leu Phe Thr Ser Gly Ser Glu Gly
 420 425 430
 Asn Pro Lys Gly Val Val His Ser His Lys Ser Ile Leu Ala Asn Val
 435 440 445
 Glu Glu Ile Lys Thr Ile Ala Asp Phe Thr Ala Asn Asp Arg Phe Met
 450 455 460
 Ser Ala Leu Pro Leu Phe His Ser Phe Gly Leu Thr Val Gly Leu Phe
 465 470 475 480
 Thr Pro Leu Leu Thr Gly Ala Glu Val Phe Leu Tyr Pro Ser Pro Leu
 485 490 495
 His Tyr Arg Ile Val Pro Glu Leu Val Tyr Asp Arg Asn Cys Thr Val
 500 505 510
 Leu Phe Gly Thr Ser Thr Phe Leu Gly Asn Tyr Ala Arg Phe Ala Asn
 515 520 525
 Pro Tyr Asp Phe Phe Arg Val Arg Tyr Val Val Ala Gly Ala Glu Lys
 530 535 540
 Leu Gln Asp Ser Thr Arg Gln Ile Trp Gln Asp Lys Phe Gly Leu Arg
 545 550 555 560
 Ile Leu Glu Gly Tyr Gly Val Thr Glu Cys Ala Pro Val Val Ser Ile
 565 570 575
 Asn Val Pro Met Ala Ala Lys Pro Gly Thr Val Gly Arg Ile Leu Pro
 580 585 590
 Gly Leu Asp Ala Arg Leu Leu Ala Val Pro Gly Ile Glu Asp Gly Gly
 595 600 605
 Arg Leu Gln Leu Lys Gly Pro Asn Val Met Asn Gly Tyr Leu Arg Val
 610 615 620
 Glu Asn Pro Gly Val Leu Glu Ala Pro Thr Ala Glu Asn Val Asn Gly
 625 630 635 640
 Glu Val Glu Thr Gly Trp Tyr Asp Thr Gly Asp Ile Val Arg Phe Asp
 645 650 655
 Asp Gln Gly Phe Val Gln Ile Gln Gly Arg Ala Lys Arg Phe Ala Lys
 660 665 670
 Ile Ala Gly Glu Met Val Ser Leu Glu Met Val Glu Thr Leu Ala Thr
 675 680 685
 Ala Val Ser Ala Glu Lys Met His Ala Thr Val Val Lys Ser Asp Ala
 690 695 700
 Ser Lys Gly Glu Ala Leu Val Leu Phe Thr Thr Asp Gly Glu Leu Lys
 705 710 715 720

Arg Asp Ala Leu Leu Arg Tyr Ala Arg Glu His Gly Ile Pro Glu Leu
 725 730 735
 Ala Val Pro Arg Asp Ile Arg Tyr Leu Lys Gln Leu Pro Val Leu Gly
 740 745 750
 Ser Gly Lys Pro Asp Phe Val Thr Leu Lys Gly Met Val Glu Ala
 755 760 765
 Glu Gln Gln Asn Ala
 770

<210> 7553

<211> 405

<212> PRT

<213> *Enterobacter cloacae*

<400> 7553

Phe Leu His Ser Cys Met Ile Cys Tyr Thr Gly Thr Ser Gln Ala Glu
 1 5 10 15
 Phe His Cys Ile Leu Lys Arg Arg Thr Val Met Ser Ala Met Asp Phe
 20 25 30
 Lys Lys His Thr Asp Leu Asn Phe Pro His Tyr Ala Pro Pro Ala Val
 35 40 45
 Ser Ala Lys Glu Ile Asp Leu Leu Gly Leu Leu Asp Val Leu Leu Ala
 50 55 60
 Ala Lys Lys Arg Ile Ile Thr Ile Val Phe Ala Phe Ala Leu Val Gly
 65 70 75 80
 Leu Ala Ile Ala Phe Leu Ile Pro Gln Lys Trp Thr Ser Lys Ala Val
 85 90 95
 Ile Thr Pro Ala Glu Gln Thr Gln Trp Ser Ser Leu Arg Gln Met Met
 100 105 110
 Val Ala Leu Gln Val Leu Asp Val Asp Val Lys Ile Thr Arg Ala Asp
 115 120 125
 Val Cys Asn Leu Phe Ile Lys Lys Phe Gln Ser Gln Ser Leu Leu Glu
 130 135 140
 Glu Tyr Met Lys Ser Ser Pro Tyr Val Met Ala Gln Leu Asp Gly Ala
 145 150 155 160
 Asp Val Asp Pro Leu Glu Leu His Arg Ala Val Val Asn Ile Ala Glu
 165 170 175
 Lys Met Lys Ala Val Asp Asn Thr Gln Glu Lys Asn Ala Asp Lys Ala
 180 185 190
 Pro Tyr Leu Ser Trp Thr Leu Ser Phe Thr Ala Pro Thr Ala Glu Asp
 195 200 205
 Ala Gln Lys Val Leu Asn Gly Tyr Ile Gln Tyr Ile Ser Arg Ile Val
 210 215 220
 Glu Gln Glu Thr Met Gln Asn Ile Arg Asp Gln Leu Ile Leu Lys Thr
 225 230 235 240
 Lys Thr Val Gln Gln Gln Leu Glu Ser Asp Arg Val Arg Leu Thr Asn
 245 250 255
 Ile His Asn Thr Asn Leu Gln Arg Leu Asn Tyr Ser Leu Glu Val Ala
 260 265 270
 Asn Ala Ala Gly Ile Lys Lys Pro Val Tyr Ser Asn Gly Gln Ala Val
 275 280 285
 Lys Asp Asp Pro Asp Tyr Ser Val Ala Leu Gly Ala Asp Gly Ile Ala
 290 295 300
 Gln Lys Leu Gln Ile Glu Lys Asn Leu Lys Asp Val Ser Glu Leu Asn
 305 310 315 320
 Ala Asp Phe Gln Asn Arg Glu Tyr Tyr Leu Ala Gln Leu Gln Lys Leu
 325 330 335
 Ser Phe Glu Asp Val Ser Leu Glu Pro Phe Lys Tyr Gln Leu Ser Pro
 340 345 350
 Ser Met Pro Val Lys Lys Asp Gly Pro Gly Lys Ala Leu Ile Val Leu
 355 360 365

Leu Ala Cys Ile Leu Gly Gly Leu Phe Ala Cys Gly Ser Val Leu Leu
 370 375 380
 Arg Glu Ala Met Ser Thr Arg Asn Pro Leu Pro Glu Gln Leu Pro Glu
 385 390 395 400
 Pro Val Thr Glu
 405

<210> 7554
 <211> 395
 <212> PRT
 <213> Enterobacter cloacae

<400> 7554
 His Gln Lys Arg Arg Ser Thr Glu Arg Leu Phe Leu Phe Gln Glu Ile
 1 5 10 15
 Phe Ala Tyr Arg Arg Lys Gly Ile Gln Gln Gly Ala Gly Phe Gln Ala
 20 25 30
 Asn Ala Ala Val His His Val Arg Arg Phe Ile Glu Gly Val Ala Arg
 35 40 45
 Gly His His Met Leu Leu Leu Ala Asn Gly Glu Leu Lys Phe Pro Arg
 50 55 60
 Glu Asn Val Gly Glu Leu Leu Met Arg Val Val Met His Arg Ala Asn
 65 70 75 80
 Arg Ala Phe Leu Glu Ile His Phe His Arg His His Pro Ala Val Val
 85 90 95
 Arg Gln Asn Thr Thr Arg His Ala Val Ala Gln Ile Leu Lys Arg Gly
 100 105 110
 Leu Phe Met Glu Asn Lys His Ile Phe Ala Leu Leu Cys Asn Glu Thr
 115 120 125
 Leu Phe Gln Leu Thr Tyr Leu Thr Arg Arg Glu Lys Glu Thr Phe Ser
 130 135 140
 Gln Ile Thr Gly Lys Ala Ile Thr Ser Leu Leu His Trp Val Lys Arg
 145 150 155 160
 Thr Gly Gly Lys Met Lys Thr Ile Gly Leu Leu Gly Gly Met Ser Trp
 165 170 175
 Glu Ser Thr Ile Pro Tyr Tyr Arg Leu Ile Asn Glu Gly Val Lys Gln
 180 185 190
 Arg Leu Gly Gly Leu His Ser Ala Ser Leu Leu Leu His Ser Val Asp
 195 200 205
 Phe His Glu Ile Glu Ala Cys Gln Ser Ser Gly Glu Trp Asp Lys Ala
 210 215 220
 Gly Gln Ile Leu Ala Asp Ala Ala Leu Gly Leu Glu Arg Ala Gly Ala
 225 230 235 240
 Gln Gly Ile Leu Leu Cys Thr Asn Thr Met His Lys Val Ala Ser His
 245 250 255
 Ile Glu Asp Arg Cys Ser Leu Pro Phe Leu His Ile Ala Asp Ala Thr
 260 265 270
 Gly Arg Ala Ile Arg Thr Ala Gly Met Thr Arg Val Ala Leu Leu Gly
 275 280 285
 Thr Arg Tyr Thr Met Glu Gln Asp Phe Tyr Arg Gly Arg Leu Ser Ser
 290 295 300
 Gln Phe Gly Ile Glu Ser Leu Ile Pro Glu Glu Ala Asp Arg Ala Arg
 305 310 315 320
 Ile Asn Gln Ile Ile Phe Asp Glu Leu Cys Leu Gly Thr Phe Ser Glu
 325 330 335
 Ala Ser Arg Ala Trp Tyr Val Ser Val Ile Glu Lys Leu Ala Gln Gln
 340 345 350
 Gly Ala Glu Gly Val Ile Phe Gly Cys Thr Glu Ile Gly Leu Leu Val
 355 360 365
 Pro Ala Asp Arg Ser Pro Ile Ser Val Phe Asp Thr Ala Ala Ile His
 370 375 380

J-530 U.S. PTO
 09/25/91
 02/18/93

Ala Ala Asp Ala Val Glu Phe Met Leu Ser
385 390 395

<210> 7555

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 7555

Ala Cys Ser Ile Ser Phe Leu His Arg Leu Thr Ile Lys Arg Tyr Phe
1 5 10 15
Leu Phe Ser Ser Gly Tyr Gly Val Met Ile Lys Asn Arg Phe Pro Glu
20 25 30
Thr Thr Met Pro Arg Pro Leu Asn Gln Thr Glu Thr Asp Leu Asn Ala
35 40 45
Asp Asn Leu Leu Arg Leu Pro Ala Glu Phe Gly Cys Pro Val Trp Val
50 55 60
Tyr Asp Ala Gln Ile Val Arg Glu Lys Ile Ala Ala Leu His Gln Phe
65 70 75 80
Asp Val Val Arg Phe Ala Gln Lys Ala Cys Ser Asn Ile His Ile Leu
85 90 95
Arg Leu Met Arg Glu Gln Gly Val Lys Val Asp Ser Val Ser Leu Gly
100 105 110
Glu Ile Glu Arg Ala Leu Val Ala Gly Phe Asp Pro Lys Ala Asp Ser
115 120 125
Asp Ala Ile Val Phe Thr Ala Asp Leu Ile Asp Asp Ala Thr Leu Ala
130 135 140
Arg Val His Glu Leu Gln Ile Pro Val Asn Ala Gly Ser Val Asp Met
145 150 155 160
Leu Glu Gln Leu Gly Gln Val Ser Pro Gly His Arg Val Trp Leu Arg
165 170 175
Val Asn Pro Gly Phe Gly His Gly His Ser Gln Lys Thr Asn Thr Gly
180 185 190
Gly Glu Asn Ser Lys His Gly Ile Trp Tyr Ala Asp Met Pro Ala Ala
195 200 205
Leu Glu Val Leu Gln Arg Tyr Asn Leu Lys Leu Val Gly Ile His Met
210 215 220
His Ile Gly Ser Gly Val Asp Tyr Gly His Leu Glu Gln Val Cys Gly
225 230 235 240
Ala Met Val Arg Gln Val Ile Asp Phe Gly Gln Asp Leu Glu Ala Ile
245 250 255
Ser Ala Gly Gly Leu Ser Ile Pro Tyr Arg Glu Gly Glu Glu Ala
260 265 270
Ile Asp Thr Asp His Tyr Tyr Gly Leu Trp Ser Ala Ala Arg Asp Arg
275 280 285
Ile Ala Ala His Leu Gly His Ala Val Lys Leu Glu Ile Glu Pro Gly
290 295 300
Arg Phe Leu Val Ala Glu Ala Gly Val Leu Val Ala Gln Val Arg Ser
305 310 315 320
Val Lys Glu Met Gly Ser Arg His Phe Val Leu Ile Asp Ala Gly Phe
325 330 335
Asn Asp Leu Met Arg Pro Ser Met Tyr Gly Ser Tyr His His Ile Thr
340 345 350
Ala Leu Ala Ala Asp Gly Arg Asp Leu Val Asn Ala Pro Arg Ile Glu
355 360 365
Thr Val Val Ala Gly Pro Leu Cys Glu Ser Gly Asp Val Phe Thr Gln
370 375 380
Gln Glu Gly Gly Lys Val Glu Thr Arg Ser Leu Pro Glu Val Lys Pro
385 390 395 400
Gly Asp Tyr Leu Val Leu His Asp Thr Gly Ala Tyr Gly Ala Ser Met
405 410 415

Ser Ser Asn Tyr Asn Ser Arg Pro Leu Leu Pro Glu Val Leu Phe Asp
 420 425 430
 Asn Gly Val Ala Arg Leu Ile Arg Arg Arg Gln Thr Ile Gln Glu Leu
 435 440 445
 Leu Ala Leu Glu Leu Val
 450 455

<210> 7556

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 7556

Arg Ala Trp Leu Lys Arg Gln Asn Ser Lys Met Arg Glu Ser Val His
 1 5 10 15
 Thr Asn Thr Ser Ile Trp Ser Lys Gly Met Met Ala Val Ile Ala Ala
 20 25 30
 Gln Phe Leu Ser Ala Phe Gly Asp Asn Ala Leu Leu Phe Ala Thr Leu
 35 40 45
 Ala Leu Leu Lys Ala Glu Phe Tyr Pro Asp Trp Ser Gln Pro Ile Leu
 50 55 60
 Gln Met Val Phe Val Gly Ala Tyr Ile Val Phe Ala Pro Phe Val Gly
 65 70 75 80
 Gln Val Ala Asp Ser Phe Pro Lys Gly Arg Val Met Met Phe Ala Asn
 85 90 95
 Ser Leu Lys Leu Leu Gly Ala Ala Ser Ile Cys Phe Gly Ile Asn Pro
 100 105 110
 Phe Val Gly Tyr Thr Leu Val Gly Ile Gly Ala Ala Ala Tyr Ser Pro
 115 120 125
 Ala Lys Tyr Gly Ile Leu Gly Glu Leu Thr Thr Gly Asp Lys Leu Val
 130 135 140
 Lys Ala Asn Gly Leu Met Glu Ser Ser Thr Ile Ala Ala Ile Leu Leu
 145 150 155 160
 Gly Ser Val Ala Gly Gly Val Leu Ala Asp Trp His Val Leu Ala Ala
 165 170 175
 Leu Gly Ile Cys Ala Leu Met Tyr Gly Gly Ala Val Ile Ala Asn Leu
 180 185 190
 Phe Ile Pro Lys Leu Ala Val Ala Arg Pro Gly Gln Ser Trp Arg Phe
 195 200 205
 Gly Pro Met Thr Gly Ser Phe Phe Asn Ala Cys Arg Val Leu Trp Arg
 210 215 220
 Asn Gly Glu Thr Leu Phe Ser Leu Met Gly Thr Ser Met Phe Trp Gly
 225 230 235 240
 Ala Gly Val Thr Leu Arg Phe Leu Leu Val Leu Trp Val Pro Val Ala
 245 250 255
 Leu Gly Ile Thr Asp Asn Ala Thr Pro Thr Tyr Leu Asn Ala Met Val
 260 265 270
 Ala Val Arg Ile Val Val Arg Ala Gly Ala Ala Lys Leu Val Thr
 275 280 285
 Leu Glu Asn Arg Pro Arg Ala Ala Cys Leu Pro Gly Ile Leu Asp Trp
 290 295 300
 Gly Pro Ala Phe Cys Ser
 305 310

<210> 7557

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7557

Ser Arg Gly Arg Ile Lys Met Gln Tyr Thr Arg Leu Gly Lys Ser Asp

```

1           5           10           15
Leu Leu Val Ser Arg Ile Cys Met Gly Cys Met Gly Phe Gly Asp Pro
20           25           30
Leu Thr Gly Gln His Arg Trp Thr Leu Asp Glu Thr Ala Ser Arg Asp
35           40           45
Ile Ile Arg Tyr Gly Leu Glu Lys Gly Ile Asn Phe Tyr Asp Thr Ala
50           55           60
Ile Ala Tyr Gln Asn Gly Ser Ser Glu Arg Tyr Val Gly Arg Ala Leu
65           70           75
Arg Glu Met Ala Lys Arg Glu Asp Val Val Leu Ala Thr Lys Phe Leu
85           90           95
Pro Arg Thr Ala Ala Gln Ile Ala Ala Gly Ile Gly Gly Lys Glu Ala
100          105          110
Ile Ala Arg Ser Leu Asp Gln Ser Leu Gln Asn Leu Gly Met Asp Tyr
115          120          125
Ile Asp Leu Tyr Ile Tyr His Ile Trp Asp Tyr Asn Thr Pro Val Ile
130          135          140
Glu Val Leu Glu Ala Leu His Ala Ala Val Thr Ala Gly Lys Val Arg
145          150          155
Ala Ile Gly Ile Ser Asn Cys Tyr Ala Trp Gln Leu Ala Lys Ala Asn
165          170          175
Ala Leu Ala
180

```

```

<210> 7558
<211> 121
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 7558
Arg Glu Gly Leu Thr Ala Phe Val Ser Val Gln Ser His Tyr Asn Leu
1           5           10           15
Ile Met Arg Glu Asp Glu Arg Glu Leu Phe Gly Leu Cys Ala Glu Asp
20           25           30
Asp Ile Ala Met Thr Pro Tyr Ser Ala Leu Ala Ser Gly Arg Leu Ser
35           40           45
Arg Lys Glu Gly His Thr Arg Arg Ala Ser Glu Asp Ala Tyr Ala Arg
50           55           60
Gly Lys Tyr Asp Ser Thr Ala Glu Gln Asp Arg Ser Ile Ile Glu Arg
65           70           75
Val Ala Glu Leu Ala Glu Arg His Gln Val Ser Met Thr Glu Ile Ser
85           90           95
Leu Ala Trp Leu Leu Thr Lys Val Thr Ser Pro Val Val Gly Ala Arg
100          105          110
Lys Lys Ile Thr Ser Met Ala Arg
115          120

```

```

<210> 7559
<211> 203
<212> PRT
<213> Enterobacter cloacae

```

```

<400> 7559
Thr Arg Ile Tyr Arg Val Leu Cys Gln Gln Gly Met Pro Leu Arg Leu
1           5           10           15
Leu Ser Ile Tyr Asn Ser His Leu Arg Asn Thr Met His Ile Arg Lys
20           25           30
Gly Leu Ser Thr Asp Leu Ala Arg Leu Glu Cys Cys Asp Phe Ser Phe
35           40           45
Thr Val Asp Glu Ile Ala Arg Glu Pro Phe Leu Asn Gly Asp Leu His
50           55           60

```

```

Ile Glu Ala Leu Thr Glu Pro Tyr Leu Lys Thr Tyr Glu Leu Asp Leu
65      70      75      80
Gln Thr Leu Glu Asn His Cys Val Asn Pro Asp Ser Ile Phe Leu Ile
      85      90      95
Ala Glu Thr Asp Asp Gly Glu Ile Ala Gly Phe Ile Thr Ala Ser Cys
      100      105      110
Asn Trp Asn Lys Phe Ile Ser Val Asp Tyr Ile Ala Val Glu Arg Ser
      115      120      125
Lys Arg Arg Thr Gly Ala Ala His Lys Leu Met Ser Ala Thr His Val
      130      135      140
Trp Ala Arg Ser Leu Asn Ala Pro Gly Leu Arg Leu Glu Thr Gln Asn
145      150      155      160
Val Asn Val Ser Ala Cys Leu Phe Tyr Arg His Tyr Gly Phe Ile Leu
      165      170      175
Gly Gly Tyr Asp Arg Tyr Leu Tyr Asn Ala Leu Pro Glu Lys Asp Glu
      180      185      190
Val Ala Leu Phe Trp Tyr Tyr Met Leu Ala
      195      200

```

<210> 7560

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 7560

```

Arg Leu Ile Leu Glu Leu Thr Ile Lys Glu Ala Gly Met Ser Thr Gly
1      5      10      15
Asn Asn His Thr Leu His Tyr Pro Arg Pro Pro Phe Ala Glu Gln Pro
      20      25      30
Gln Arg Ala Pro Gly Leu Ala Ser Glu Met Lys Pro Ile Pro Asp His
      35      40      45
Gly Glu Thr Ser Tyr Ile Gly Ser Gly Lys Leu Ala Gly Lys Lys Ala
      50      55      60
Leu Ile Thr Gly Gly Asp Ser Gly Ile Gly Arg Ala Val Ala Ile Ala
65      70      75      80
Tyr Ala Arg Glu Gly Ala Asp Val Ala Ile Gly Tyr Leu Pro Glu Glu
      85      90      95
Glu Ser Asp Ala Ala Ser Val Ile Ala Leu Ile Gln Ala Glu Gly Arg
      100      105      110
Lys Ala Val Ala Ile Pro Gly Asp Ile Arg Val Glu Ser Phe Cys Asp
      115      120      125
Thr Leu Val Glu Lys Ala Val Ala Glu Leu Gly Gly Leu Asp Ile Leu
      130      135      140
Val Asn Asn Ala Gly Arg Gln Gln Tyr Cys Glu Ser Ile Asp Asp Leu
145      150      155      160
Thr Thr Ala Asp Phe Asp Ala Thr Phe Lys Thr Asn Val Tyr Ala Pro
      165      170      175
Phe Trp Ile Thr Lys Ala Ala Leu Arg Leu His Pro Arg Glu Arg Ala
      180      185      190
Arg Ser Arg Ala
      195

```

<210> 7561

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7561

```

Gly Gly Ser Gln Pro Gly Trp Gly Ile Pro Ser Gly Gly Leu Gly Arg
1      5      10      15
Phe Ile Gln Lys Pro Pro Asn Cys Ser Glu Asn Val Leu Met Asp Gly

```

20	25	30
Arg Leu Ile Arg Gly Gln Asn Pro Val Ser Ala His Gly Val Gly Gly		
35	40	45
Ala Leu Leu Asn Ala Val Gly Gln Pro Ser Lys Asn Ile His Leu Ser		
50	55	60
Phe Thr Val Thr His Pro Leu Trp Pro Val Tyr Val Ser Asn Val Pro		
65	70	75
Ala Phe Phe Gln Glu Leu Asn Met Lys Ser Leu Pro Ser Val Ala Leu		
85	90	95
Gly Thr Trp Ser Trp Gly Thr Gly Phe Ala Gly Gly Asp Thr Val Phe		
100	105	110
Gly Asn His Leu Ser Asp Thr Gln Met Ala Asp Val Phe Thr Thr Ala		
115	120	125
Met Ser Lys Gly Leu Asn Leu Trp Asp Thr Ala Ala Val Tyr Gly Met		
130	135	140
Gly Ser Ser Glu Ala Ala Leu Gly Ala Leu Val Arg Gln Phe Pro Arg		
145	150	155
Glu Asp Met Ile Leu Ser Thr Lys Phe Thr Pro Gln Ile Ala Asn Glu		
165	170	175
Gln Ser Ala Gln Pro Val Ser Asp Met Leu Glu Ala Ser Leu Gly Arg		
180	185	190
Leu Gly Val Asp Ala Ile Asp Ile Tyr Trp Ile His Asn Pro Leu Asp		
195	200	205
Val Glu Lys Trp Thr Pro Gly Leu Ile Pro Leu Leu Gln Ser Gly Lys		
210	215	220
Val Lys Arg Val Gly Val Ser Asn His Asn Leu Ala Gln Ile Arg Arg		
225	230	235
Ala Asn Glu Ile Leu Asn Ala Ser Gly Tyr Ser Leu Ser Ala Val Gln		
245	250	255
Asn His Tyr Ser Leu Leu Tyr Arg Ala Ser Glu Glu Ala Gly Ile Leu		
260	265	270
Gly Tyr Cys Arg Gln Asn Asn Ile Thr Phe Phe Ala Tyr Met Val Leu		
275	280	285
Glu Gln Gly Ala Leu Ser Gly Arg Tyr Asp Ser Asn His Pro Met Pro		
290	295	300
Ala Gly Ser Gly Arg Ala Glu Ser Tyr Asn Ala Val Leu Pro Gln Leu		
305	310	315
Glu Arg Leu Thr Ala Ala Met Lys Lys Met Gly Ala Asp Arg Asn Ala		
325	330	335
Ser Val Ala Gln Ile Ala Ile Ala Trp Ala Ile Ala Lys Gly Thr Leu		
340	345	350
Pro Leu Val Gly Ala Thr Lys Val His His Val Leu Asp Ala Ala Cys		
355	360	365
Ala Ser Asp Ile Gln Leu Arg Asp Glu Glu Ile Ile Leu Leu Glu Gln		
370	375	380
Leu Ala Thr Glu Thr Arg Val Asp Thr Arg Gly Ala Trp Glu Lys Pro		
385	390	395
Met Val		400

<210> 7562

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 7562

Ser Ala Ser Leu Leu Leu Cys Met Lys Gly Glu Asn Met Lys Ile
1
5
10
15
Ile Cys Leu Glu Glu His Tyr Leu Asp Ser Glu Leu Gly Arg Ala Cys
20
25
30
Met Pro Val Ala Leu Glu Gln Ala Pro Phe Leu Gly Asp Trp Gly Lys

```

      35              40              45
Thr Val Ala Asp Gly His Asn Pro Asp Arg Ser Arg Pro Gln Ile Glu
  50              55              60
Lys Asn Ala Leu Ile Asn Ala Lys Gly Ala Asp Leu Gly Ser Arg Arg
  65              70              75              80
Leu Arg Asp Met Asp Glu Ala Gly Ile Thr Leu Gln Ile Leu Ser Val
      85              90              95
Gly Gly Phe Pro Gln Leu Ala Pro Gly Asp Glu Ala Val Thr Leu Asn
      100              105              110
Thr Ala Ala Asn Asp Arg Leu Ala Gly Ala Val Arg Asn His Pro Asp
      115              120              125
Arg Phe Ala Ala Phe Ala Thr Leu Pro Trp Ala Gln Pro Glu Glu Ala
      130              135              140
Glu Lys Glu Leu Val Arg Ala Val Glu Lys Leu Gly Phe Lys Gly Ala
      145              150              155              160
Leu Leu Asn Gly Arg Pro Ser Ser Cys Phe Leu Asp His Pro Asp Tyr
      165              170              175              180
Asp Ser Leu Leu Ser Arg Phe Asn Lys Leu Asn Val Pro Leu Tyr Leu
      185              190
His Pro Gly Leu Pro Leu Lys Ser Val Gln Gln Ala Tyr Phe Thr Gly
      195              200              205
Phe Asn Ala Glu Val Asn Ala Arg Leu Ser Met Phe Gly Trp Gly Trp
      210              215              220
His His Glu Ala Gly Ile His Leu Leu Arg Leu Met Leu Ser Gly Ala
      225              230              235              240
Phe Asp Lys Tyr Pro His Leu Gln Val Ile Ser Gly His Trp Gly Glu
      245              250              255
Met Leu Pro Phe Trp Leu Gln Arg Leu Asp Asp Ser Leu Pro Leu Ala
      260              265              270
Ala Thr Gly Leu Ser Arg Thr Leu Thr Arg Thr Phe Gln Glu His Val
      275              280              285
Tyr Val Thr Pro Ser Gly Met Leu Thr Leu Pro His Phe Gln Phe Ile
      290              295              300
Tyr Ala Leu Met Gly Ala Asp Arg Ile Leu Phe Ser Val Asp Tyr Pro
      305              310              315              320
Tyr Gln Thr Leu Asp Gly Val Lys Thr Phe Ile Asp Ser Leu Pro Val
      325              330              335
Asn Lys Ala Glu Lys Glu Ala Ile Ala Phe Arg Asn Ala Glu Arg Leu
      340              345              350
Leu Gly Ile Thr Ala
      355

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<210> 7563

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 7563

```

Leu Ile Glu Met Lys Asn Ile Leu Ile Val Ser Gly His Pro Glu Leu
  1              5              10              15
Thr His Ser Val Ala Asn Ala Thr Ile Leu Asp Glu Val Ala Thr Ala
  20              25              30
Leu Pro Asp Ala Glu Ile Arg Arg Leu Asp Trp Leu Tyr Pro Asp Gly
  35              40              45
Lys Phe Asn Ile Ala Ala Glu Gln Glu Ser Leu Leu Arg Ala Asp Val
  50              55              60
Ile Val Trp Gln Phe Pro Phe Ser Trp Tyr Gly Leu Pro Gly Leu Met
  65              70              75              80
Lys Gln Trp Leu Asp Glu Val Phe Val His Gly Phe Ala His Gly Ser
      85              90              95
Thr Ala Lys Leu Gly Gly Lys Lys Leu Leu Leu Ser Phe Thr Thr Gly

```

```

          100              105              110
Ala Pro Gln Ala Leu Tyr Thr Ala Asp Gly Phe Phe Gly His Ala Ile
          115              120              125
Glu Glu Tyr Leu Ile Pro Phe Glu Thr Thr Ala Lys Leu Cys Asn Leu
          130              135              140
Glu Leu Leu Glu Pro Val Tyr Thr Cys Gly Ile Ser Tyr Ala Asp Arg
          145              150              155
Asp Ala Asp Lys Leu Ala Gln Gln Lys Thr Leu Ala Arg Glu His Ala
          165              170              175
Leu Arg Leu Val His Leu Leu Asn Ser Val Val Asn Asn Pro Glu Gly
          180              185              190
Glu

```

<210> 7564

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 7564

```

Arg Phe Thr Val Leu Leu Arg Gln Arg Arg Phe Met Met Val Leu Leu
1      5      10
Gln Arg Arg Ala Ala Ala Leu Phe Leu Phe Ala Phe Ile Phe Leu Met
20     25     30
Pro Ala Ser His Ala His Ser Arg Glu Lys Thr Asp Ile Lys Thr Leu
35     40     45
Val Ile Val Ser His Pro Tyr Pro Glu Arg Ser Val Leu Thr Lys Gly
50     55     60
Leu Gln Glu Ala Ala Glu Ser Leu Glu Gly Val Thr Val Arg Asn Leu
65     70     75
Glu Thr Leu Tyr Gly Tyr Asp Thr Arg Arg Ile Asn Gly Asp Ala Glu
85     90     95
Arg Lys Met Met Arg Glu His Arg Arg Val Val Phe Ile Phe Pro Thr
100    105    110
His Trp Phe Asn Ile Thr Pro Met Met Lys Ala Trp Leu Asn Glu Thr
115    120    125
Trp Gly Ser Val Gly Pro Gly Leu Trp Gln Gly Lys Glu Met Phe Ile
130    135    140
Val Ser Thr Ala Ala Gly Gly Ser Ser Thr Tyr Gly Thr Asp Gly Arg
145    150    155
Ile Gly Val Ser Leu Ala Asp Val Phe Leu Pro Met Lys Ala Ser Ala
165    170    175
Leu His Ala Gly Met Thr Trp Leu Pro Pro Leu Val Phe Glu Ser Ala
180    185    190
Ser Ser Asp Arg Leu Pro Ser Tyr Gln His Gln Leu Ile Glu Arg Leu
195    200    205
Lys Gln Pro Phe Gln
210

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<210> 7565

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 7565

```

Asn Val Leu Asn Ser His Phe Ser Lys Arg Ile Ile Val Lys Lys Thr
1      5      10
Leu Met Leu Leu Ile Cys Met Leu Ile Ser Ser Pro Val Phe Ala Thr
20     25     30
Lys Leu Asp Ala Pro Asp Lys Arg Val Met Asn Ile Phe Glu Leu Gly
35     40     45

```

```
<210> 7566
<211> 273
<212> PRT
<213> Enterobacter cloacae
```

400> 7566																	
Pro	Val	Arg	Ile	Asn	Met	Lys	Ser	Val	Ile	Ala	Ala	Ala	Ala	Met	Ser		
1				5					10					15			
Leu	Val	Ile	Ser	Asp	Phe	Ala	Thr	Ala	Glu	Glu	Thr	Arg	Gly	Lys	Ala		
				20				25					30				
Met	Met	Lys	Ile	Glu	Pro	Ser	Thr	Ile	Ser	Glu	Ala	Asp	Ile	Arg	Ser		
		35					40					45					
Val	Ser	Pro	Ala	Leu	Ala	Arg	Phe	Gly	Arg	Glu	Ala	Ile	Thr	Glu	Asp		
	50					55				60							
Leu	Trp	Thr	Arg	Asp	Ala	Leu	Ser	Pro	Arg	Asp	Arg	Ser	Met	Val	Thr		
65				70						75				80			
Val	Ala	Met	Leu	Ile	Ala	Arg	Asn	Gln	Pro	Gly	Asp	Leu	Lys	His	Tyr		
				85					90					95			
Met	Asp	Ile	Ala	Leu	Asp	Asn	Gly	Val	Thr	Pro	Ala	Glu	Leu	Ser	Glu		
			100					105					110				
Ile	Ile	Thr	His	Leu	Ala	Phe	Tyr	Ser	Gly	Trp	Pro	Asn	Ala	Met	Ser		
		115					120					125					
Ala	Val	Ser	Val	Thr	Lys	Ala	Val	Phe	Glu	Thr	Arg	Gly	Val	Thr	Ala		
	130					135					140						
Asp	Ala	Leu	Pro	Asp	Ala	Ser	Pro	Asp	Leu	Leu	Pro	Leu	Asn	Gln	Gln		
145					150					155				160			
Ala	Glu	Lys	Gln	Arg	Ser	Glu	Thr	Val	Glu	Lys	Asn	Val	Gly	Pro	Ile		
			165					170						175			
Ser	Pro	Gly	Leu	Val	Lys	Phe	Thr	Ala	Asp	Pro	Leu	Phe	Leu	Asp	Leu		
		180						185					190				
Trp	Gln	Arg	Pro	Ala	Leu	Lys	Pro	Arg	Asp	Arg	Ser	Leu	Ile	Thr	Val		
		195					200					205					
Ser	Ala	Leu	Ile	Ala	Ser	Gly	Gln	Ser	Ala	Gln	Ile	Gly	Tyr	His	Leu		
	210					215				220							

Asn Arg Ala Met Asp Asn Gly Leu Ser Val Glu Glu Ala Gly Glu Ile
 225 230 235 240
 Val Thr Gln Ala Ala Phe Tyr Ala Gly Trp Pro Asn Ala Phe Thr Ala
 245 250 255
 Ala Pro Val Val Gly Glu Val Leu Asn Asn Arg Ser Ser Ser Lys Arg
 260 265 270

<210> 7567

<211> 497

<212> PRT

<213> *Enterobacter cloacae*

<400> 7567

Gly Val Ser Cys Asn Asp Lys Val Gln Met Val Arg Leu Pro Pro Cys
 1 5 10 15
 Lys Ser His Leu Tyr Ser Phe Val Ile His Thr Leu Phe Ser Glu Asp
 20 25 30
 Asn Leu Met Thr Leu Phe Ser Ser Gln Pro Gly Asp Glu Gly Leu Pro
 35 40 45
 Gly Pro Ala Arg Ala Arg Val Met Ala Ala Ile Met Thr Thr Thr Leu
 50 55 60
 Met Gly Val Phe Asp Gly Thr Met Ile Asn Ile Ala Leu Pro Ser Met
 65 70 75 80
 Ala Gln Glu Met Gln Val Pro Ala Ser Ile Ala Val Trp Phe Ala Asn
 85 90 95
 Gly Tyr Leu Leu Ala Ala Ala Met Ser Leu Ala Ile Phe Ala Ala Leu
 100 105 110
 Ala Ala Arg Leu Gly Tyr Arg Pro Val Phe Leu Ala Gly Leu Thr Thr
 115 120 125
 Phe Thr Leu Thr Ser Leu Gly Cys Ala Leu Ala Lys Thr Pro Glu Val
 130 135 140
 Leu Ile Gly Met Arg Val Leu Gln Gly Ile Gly Gly Ala Ala Thr Leu
 145 150 155 160
 Ser Ile Ala Pro Ala Ile Leu Arg Ser Val Phe Pro Gly Arg Leu Leu
 165 170 175
 Gly Arg Ile Leu Gly Leu His Ala Leu Leu Ile Ala Ser Ser Ser Ala
 180 185 190
 Ile Gly Pro Val Leu Gly Gly Thr Ile Leu His Thr Leu Ser Trp Gln
 195 200 205
 Trp Leu Phe Ala Ile Asn Val Val Pro Gly Thr Leu Ala Leu Leu Leu
 210 215 220
 Ala Val Lys Ala Leu Pro Arg Asp Ala Val Arg Lys Gln Ala Pro Phe
 225 230 235 240
 Asp Thr Pro Gly Ala Ile Leu Ser Ala Leu Leu Gly Ser Thr Ile
 245 250 255
 Met Ala Ala Asn Ser Leu Gln Glu Ala Thr Tyr His Pro Gly Ser Leu
 260 265 270
 Cys Trp Thr Val Leu Ala Ala Leu Ser Gly Met Ala Phe Ile Trp Gln
 275 280 285
 Ile Arg Arg Thr Asp Asn Pro Leu Leu Pro Pro Thr Met Phe Lys Asn
 290 295 300
 Glu Arg Phe Thr Leu Ala Ala Phe Thr Ser Met Ile Ala Phe Val Ser
 305 310 315 320
 Gln Gly Ile Thr Phe Ile Ala Leu Pro Phe Leu Phe Gln Ser Glu Tyr
 325 330 335
 Gly Tyr Ser Pro Val Leu Ser Ala Leu Leu Phe Thr Pro Trp Pro Leu
 340 345 350
 Gly Ile Val Leu Ile Ala Pro His Ala Gly Arg Trp Ala Asp Thr Ile
 355 360 365

Ser Ala Pro Ala Ile Ser Thr Leu Gly Leu Val Ile Phe Val Val Gly
 370 375 380
 Leu Ile Leu Leu Ala Thr Leu Pro Asp Arg Pro Thr Met Trp Asp Ile
 385 390 395 400
 Cys Leu Arg Ser Leu Val Cys Gly Met Gly Phe Gly Cys Phe Gln Ser
 405 410 415
 Pro Asn Asn Arg Glu Met Leu Ser Asn Val Ile Arg Glu His Ala Ser
 420 425 430
 Tyr Ala Ser Gly Val Leu Ser Ile Met Arg Thr Phe Gly Gln Cys Leu
 435 440 445
 Gly Ala Ala Val Ala Val Leu Leu Ala Ala Asp Glu Arg Ser Ile
 450 455 460
 His Val Ala Leu Trp Val Ala Ala Ala Ser Ala Val Ala Val Val
 465 470 475 480
 Val Ser Ala Ser Arg Leu Arg Lys Ile Thr His Pro Ala Glu Thr Gly
 485 490 495

<210> 7568
 <211> 183
 <212> PRT
 <213> Enterobacter cloacae

<400> 7568
 His Ala Arg Cys Pro Gly Arg Gly Arg Ser Cys His Arg Lys Thr Ala
 1 5 10 15
 Gly Lys Glu Thr Ala Val Gly Arg Val Thr Ala Pro Glu Pro Leu Ser
 20 25 30
 Ser Val His Gln Leu Ala Glu Phe Val Ser Gly Glu Ala Val Leu Asp
 35 40 45
 Glu Trp Leu Lys Gln Arg Gly Leu Lys Asn Gln Ala Leu Gly Ala Ala
 50 55 60
 Arg Thr Phe Val Ile Cys Lys Thr Gly Thr Lys Gln Val Ala Gly Phe
 65 70 75 80
 Tyr Ser Leu Ala Thr Gly Ser Val Asn His Thr Gln Ala Thr Gly Asn
 85 90 95
 Leu Arg Arg Asn Met Pro Asp Pro Ile Pro Val Ile Ile Leu Ala Arg
 100 105 110
 Leu Ala Val Asp Val Ser Leu Arg Gly Asn Gly Leu Gly Ala Asp Leu
 115 120 125
 Leu His Asp Ala Val Leu Arg Cys Tyr Arg Val Ala Glu Asn Ile Gly
 130 135 140
 Val Arg Ala Ile Met Val His Ala Leu Thr Glu Glu Ala Lys Ala Phe
 145 150 155 160
 Tyr Ile His His Gly Phe Lys Ala Ser Gln Thr Gln Glu Arg Thr Leu
 165 170 175
 Phe Leu Arg Leu Pro Gln
 180

<210> 7569
 <211> 828
 <212> PRT
 <213> Enterobacter cloacae

<400> 7569
 Trp Arg Ser Ser Ala Met Ile Pro Ser Ser Thr Tyr Arg Ile Gln Phe
 1 5 10 15
 Arg Asn Gly Met Thr Phe Asp Arg Val Ala Asp Leu Ile Pro Tyr Met
 20 25 30
 Lys Asp Leu Gly Ile Ser His Leu Tyr Ala Ser Pro Val Phe Thr Ala

[illegible]

Gly Glu Asn Leu Ala Arg Trp Arg Gln Met Asn Gln Thr Gln Val Arg
 530 535 540
 Phe Leu Asn Asp Gly Thr Ala Pro Asn Ala Ala Asp Thr Trp Met Ile
 545 550 555 560
 Phe Gln Ala Leu Ala Gly Val Trp Pro Ala Thr Leu Ser Pro Glu Asp
 565 570 575
 Arg Asp Gly Leu Lys Ser Leu Glu Glu Arg Phe Leu Gly Phe Ile Glu
 580 585 590
 Lys Ala Leu Arg Glu Ala Lys Gln Arg Thr Asp Trp Ile Asp Ser Asn
 595 600 605
 Glu Gly Tyr Glu Ser Val Val Leu Asp Tyr Val Arg His Leu Leu Ser
 610 615 620
 Pro Asp Asn Thr Leu Phe Leu Arg Asp Phe Ser Ala Ala Leu Gln Pro
 625 630 635 640
 Phe Ile Arg Ala Gly Leu Met Asn Ser Leu Ser Gln Thr Val Ile Lys
 645 650 655
 Leu Thr Ala Pro Gly Val Pro Asp Ile Tyr Gln Gly Ser Glu Gly Leu
 660 665 670
 Asn Phe Ser Leu Val Asp Pro Asp Asn Arg Arg Glu Pro Asp Phe Ala
 675 680 685
 Ala Leu Ala Glu Asn Leu Ser Val Ala Asp Gly Thr Val Phe Asn Asp
 690 695 700
 Ala Gln Arg Trp Arg Asp Gly Ser Val Lys Gln Tyr Val Thr Ala Thr
 705 710 715 720
 Leu Leu Arg Leu Arg Pro His Tyr Pro Ala Leu Phe Arg Tyr Gly Asp
 725 730 735
 Trp Leu Pro Leu Lys Val Thr Gly Glu Arg Glu Glu Asn Leu Ile Val
 740 745 750
 Tyr Ala Arg Ile Lys Asp Asp Glu Ala Leu Ile Val Ala Val Pro Arg
 755 760 765
 Leu Val Phe Asp Val Thr Asp Asn Ala Leu Leu Trp Ala Asn Thr Ile
 770 775 780
 Val Ala Ile Pro Gln Glu Leu Ala Gly Lys His Tyr Arg Asp Leu Phe
 785 790 795 800
 Thr Gly Glu Arg Arg Leu Leu Pro Asp Thr Leu Asp Leu Thr Ser Glu
 805 810 815
 Lys Gly Cys Leu Leu Val Leu Leu Thr Cys Asp
 820 825

<210> 7570

<211> 697

<212> PRT

<213> Enterobacter cloacae

<400> 7570

Ser Arg Arg Thr Lys Met Pro Lys Asp Thr Thr Phe Glu Ile Arg Ala
 1 5 10 15
 Gly His Gly Gln Gln Leu Gly Ala Asn Tyr Asp Gly Lys Gly Val Asn
 20 25 30
 Phe Ala Leu Phe Ser Ala His Ala Glu Arg Val Glu Leu Cys Leu Phe
 35 40 45
 Asp Pro Ser Gly Lys Thr Glu Ile Ala Arg Leu Glu Leu Pro Glu Tyr
 50 55 60
 Thr His Glu Val Trp His Gly Tyr Val Pro Asp Leu Lys Pro Gly Ala
 65 70 75 80
 Leu Tyr Gly Tyr Arg Val Tyr Gly Pro Tyr Asp Pro Glu Asn Gly His
 85 90 95
 Arg Phe Asn Pro Asn Lys Leu Leu Ile Asp Pro Tyr Ala Arg Glu Leu
 100 105 110
 Val Gly Asp Ile Glu Trp Asn Asp Ala His Phe Gly Tyr Glu Leu Gly
 115 120 125

His Asp Glu Leu Asp Leu Ser Phe Asp Thr Arg Asp Ser Ala Pro Phe
 130 135 140
 Thr Pro Lys Cys Lys Val Ile Asp Pro Asn Ala Val Asp Trp Gln Asp
 145 150 155 160
 Ser Arg Arg Pro Asp Ile Pro Trp Pro His Thr Val Val Tyr Glu Ser
 165 170 175
 His Val Lys Gly Phe Thr Gln Leu Asn Pro Ala Ile Gln Pro Glu Leu
 180 185 190
 Arg Gly Thr Phe Glu Gly Met Gly His Lys Ala Ser Val Glu Tyr Ile
 195 200 205
 Lys Ser Leu Gly Ile Thr Ser Val Glu Leu Leu Pro Val His Trp Phe
 210 215 220
 Pro Asp Asp Gln His Leu Asp Arg Gly Leu Lys Asn Phe Trp Gly
 225 230 235 240
 Tyr Asn Ser Leu Gly Phe Phe Ala Pro Ala Ser Arg Tyr Tyr Gly Pro
 245 250 255
 Ala Gly Ile Gln Gly Phe Arg Asp Met Val Arg Ala Tyr His Asp Ala
 260 265 270
 Gly Ile Glu Val Ile Leu Asp Val Val Tyr Asn His Thr Ala Glu Gly
 275 280 285
 Asn Glu Leu Gly Pro Thr Leu Ser Phe Lys Gly Ile Asp Asn Phe Cys
 290 295 300
 Tyr Tyr Arg Thr Met Pro Asp Gln His Arg Tyr Tyr Ile Asn Asp Thr
 305 310 315 320
 Gly Thr Gly Asn Thr Val Asn Thr Ser His Pro Arg Val Leu Gln Met
 325 330 335
 Val Met Asp Ser Leu Arg Tyr Trp Ala Glu Ser Met Gln Ile Asp Gly
 340 345 350
 Phe Arg Phe Asp Leu Gly Thr Ile Leu Gly Arg Glu Pro Glu Gly Phe
 355 360 365
 Asp Pro Arg Gly Gly Phe Phe Asp Ala Val Thr Gln Asp Pro Val Leu
 370 375 380
 Ser Lys Leu Lys Leu Ile Gly Glu Pro Trp Asp Ile Gly Pro Gly Gly
 385 390 395 400
 Tyr Gln Val Gly Gly Phe Pro Pro Gly Trp Gly Glu Trp Asn Asp Lys
 405 410 415
 Tyr Arg Asp Thr Val Arg Glu Tyr Trp Lys Gly Asp Asn Val Ser Asn
 420 425 430
 Asp Phe Ala Ala Arg Leu Leu Gly Ser Gly Asp Leu Tyr Asp Leu Arg
 435 440 445
 Gly Arg Arg Pro Trp Ala Ser Val Asn Phe Ile Thr Ala His Asp Gly
 450 455 460
 Phe Thr Leu Asn Asp Leu Val Ser Tyr Asn Glu Lys His Asn Ala Asp
 465 470 475 480
 Asn Gly Glu Asp Asn Asn Asp Gly His Asn Asp Asn Arg Ser Tyr Asn
 485 490 495
 Tyr Gly Glu Glu Gly Pro Thr Glu Asn Pro Asp Ile Ile Ala Thr Arg
 500 505 510
 Glu Arg Gln Lys Arg Asn Phe Leu Thr Thr Phe Ser His Gly
 515 520 525
 Thr Pro Met Leu Leu Ala Gly Asp Glu Phe Gly Arg Thr Gln Lys Gly
 530 535 540
 Asn Asn Asn Gly Tyr Cys Gln Asp Ser Glu Ile Ser Trp Val Asn Trp
 545 550 555 560
 Glu Gly Leu Thr Glu Asn Asp Glu Lys Leu Arg Asp Phe Thr Arg Arg
 565 570 575
 Leu Ile Ala Leu Arg Ala Thr Gln Pro Leu Leu Arg Arg Glu Asn Trp
 580 585 590
 Arg Asp Gly Leu Glu Ile Arg Trp Phe Asn Ala Gly Gly Gly Pro Gln
 595 600 605
 Gln Ser Glu Gln Trp Asp Glu Gly Ser Thr Leu Gly Leu Ala Ile Ser

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        610                615                620
Arg Pro Asp Leu Glu Gln Glu Gly Val Trp Gln Asp Val Leu Met
625                630                635                640
Leu Phe Asn Pro Phe Glu Gly Thr Val Pro Phe Gln Ile Pro Gln Phe
        645                650                655
Gly Glu Gly Gly Trp Val Leu Glu Leu Ser Thr Ser Glu Asp Ala Thr
        660                665                670
Thr Gly Glu Ile Ile Thr Glu Ser Val Asp Tyr Glu Leu Ala Gly Arg
        675                680                685
Ser Ile Thr Leu Phe Arg Arg Pro
        690                695

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<210> 7571

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 7571

```

Asn Ala Leu Ser Glu Cys Thr Gly Met Ser Ala Met Thr Asp Pro Asp
1                5                10                15
Phe Asn Leu Leu Ile Ala Leu Asp Ile Leu Leu Ser Glu Ala Ser Val
        20                25                30
Ala Gly Ala Ala Arg Arg Leu Asn Leu Ser Thr Ser Ala Met Ser Arg
        35                40                45
Thr Leu Ser Arg Leu Arg Asp Val Thr Gly Asp Pro Ile Leu Val Arg
        50                55                60
Ala Gly Arg Asn Met Val Leu Thr Pro Trp Ala Glu Ala Thr Arg Asp
65                70                75                80
Arg Ala Arg Arg Ala Val His Glu Thr Arg Ala Val Leu Gln Pro Ser
        85                90                95
Thr Glu Thr Phe Ser Ala Arg Ser Leu Ala Arg Leu Phe Thr Ile Arg
        100                105                110
Ala Asn Asp Gly Phe Val Val Ala Phe Gly Pro Ala Leu Ile Ala Ala
        115                120                125
Val Ala Asp Ala Ala Pro Asp Val Cys Ile Arg Phe Ala Pro Lys Pro
        130                135                140
Glu Lys Thr Ser Arg Tyr Leu Arg Glu Gly Leu Val Asp Leu Glu Ile
145                150                155                160
Gly Val Gln Ser Asn Met Gly Pro Glu Ile Arg Leu Gln Arg Leu Phe
        165                170                175
Glu Asp Arg Phe Val Gly Val Val Arg Lys Gly His Pro Leu Ala Asn
        180                185                190
Gln Ala Glu Ile Gly Val Lys Asp Tyr Val Ala Trp Gly His Val Val
        195                200                205
Ala Ser Pro Glu Gly Ala Leu His Gly Ser Val Asp Asp Ala Leu Ala
        210                215                220
Glu Leu Gly Thr Lys Arg Lys Ile Ala Ser Val Val Pro Gly Phe Pro
225                230                235                240
Thr Ala Leu Ser Val Ala Leu Ala Ser Asp Leu Val Ala Met Ile Pro
        245                250                255
Ala Leu Tyr Leu Leu Asn Gln Gln Ile Thr Glu Gln Leu His Val Phe
        260                265                270
Glu Leu Pro Phe Lys Ser Arg Arg Ile Thr Val Ser Gln Met Trp His
        275                280                285
Pro Arg Met Glu Arg Asp Pro Gly His Arg Trp Leu Arg Glu Gln Ile
290                295                300
Leu Ala Ile Cys Gly Val Glu Arg Ser Asp Met Ile Lys Ser Ala Val
305                310                315                320

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<210> 7572

<211> 98

<212> PRT

<213> *Enterobacter cloacae*

<400> 7572

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Ser Asn Cys Tyr Thr Arg Gly Ile Pro Met Lys Ser Asp Val Gln Leu
1      5      10      15
Asn Leu Arg Ala Lys Glu Ser Gln Arg Ala Leu Ile Asp Ala Ala Ala
20      25      30
Glu Ile Leu His Lys Ser Arg Thr Asp Phe Ile Leu Glu Met Ala Cys
35      40      45
Gln Ala Ala Glu Asn Val Ile Leu Asp Arg Arg Val Phe Asn Phe Asn
50      55      60
Asp Glu Gln Tyr Ala Glu Phe Ile Asp Met Leu Asp Ala Pro Val Ala
65      70      75      80
Asp Asp Pro Ala Ile Glu Lys Leu Leu Ala Arg Lys Pro Gln Trp Asp
85      90      95
Val

```

<210> 7573

<211> 596

<212> PRT

<213> *Enterobacter cloacae*

<400> 7573

```

Met Glu Phe Arg Thr Cys Arg Arg His Trp Gly Ala Glu Phe Ile Ser
1      5      10      15
Asp Asp Val Val Arg Phe Arg Val Trp Ala Glu Gly Gln Lys Asp Leu
20      25      30
Thr Leu Arg Leu Thr Asp Thr Asp Ile Pro Met Ala Ala Val Gly Asp
35      40      45
Gly Trp Phe Gln Ile Asp Val Pro Gly Val Arg His Gly Thr Thr Tyr
50      55      60
Gln Phe Val Leu Gln Asp Gly Met Ala Val Pro Asp Pro Ala Ser Arg
65      70      75      80
Ala Gln Gln Ala Asp Val Asn Gly Pro Ser Val Val Ile Asp Pro Arg
85      90      95
Arg Ser Leu Pro Ala Gln Arg Glu Trp Gln Gly Arg Pro Trp Glu Glu
100      105      110
Thr Val Ile Tyr Glu Leu His Ile Gly Thr Phe Thr Gly Glu Gly Thr
115      120      125
Phe Arg Ser Ala Ile Asp Lys Leu Pro Tyr Leu Ala Glu Leu Gly Ile
130      135      140
Thr Gln Leu Glu Val Met Pro Val Ser Gln Phe Gly Gly Ala Arg Gly
145      150      155      160
Trp Gly Tyr Asp Gly Val Leu Leu Tyr Ala Pro His Ser Ala Tyr Gly
165      170      175
Thr Pro Asp Asp Phe His Ala Phe Ile Asp Ala Ala His Ala Leu Gly
180      185      190
Leu Ser Val Val Leu Asp Ile Val Leu Asn His Phe Gly Pro Glu Gly
195      200      205
Asn Tyr Leu Pro Leu Leu Ser Pro Ala Phe Phe His Gln Asp Arg Met
210      215      220
Thr Pro Trp Gly Asn Gly Ile Ala Tyr Glu Val Glu Ala Val Arg Gln
225      230      235      240
Tyr Ile Ala Glu Ala Pro Leu Phe Trp Leu Ser Glu Tyr His Leu Asp
245      250      255
Gly Leu Arg Phe Asp Ala Ile Asp Gln Ile His Asp Asp Ala Glu Thr
260      265      270

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His Ile Leu Pro Glu Ile Ala Gln Arg Ile Arg Asp Ala Phe Pro Asp
 275 280 285
 Arg His Ile His Leu Thr Thr Glu Asp Ser Arg Asn Val Ile Phe Leu
 290 295 300
 His Pro Arg Asp Glu His Gly Gln Thr Pro Leu Phe Thr Ala Glu Trp
 305 310 315 320
 Asn Asp Asp Phe His Asn Ala Ala His Val Phe Ala Thr Gly Glu Ser
 325 330 335
 His Ala Tyr Tyr Gln Asp Phe Ala Phe Glu Pro Glu Lys Lys Leu Ala
 340 345 350
 Arg Ala Leu Ala Glu Gly Phe Val Tyr Gln Gly Glu Ile Ser Leu Gln
 355 360 365
 Thr Gly Lys Ser Arg Gly Val Glu Cys Arg Glu Gln Pro Pro Gln Phe
 370 375 380
 Phe Val Asp Phe Ile Gln Asn His Asp Gln Val Gly Asn Arg Ala Gln
 385 390 395 400
 Gly Glu Arg Leu Ile Ser Leu Ala Gly Ala Asp Lys Thr Arg Val Leu
 405 410 415
 Phe Ala Ala Leu Leu Leu Ser Pro His Ile Pro Leu Leu Phe Met Gly
 420 425 430
 Glu Glu Tyr Gly Glu Thr His Pro Phe Leu Phe Phe Thr Asp Phe His
 435 440 445
 Gly Asp Leu Ala Lys Ala Val Arg Glu Gly Arg Ala Lys Glu Phe Thr
 450 455 460
 Gly His Ala Gly His Asp Glu Thr Val Pro Asp Pro Asn Asp Leu Asn
 465 470 475 480
 Thr Phe Met Arg Ser Lys Leu Asp Trp Asn Lys Ala Asp Thr Glu Glu
 485 490 495
 Gly Arg Ala Trp Leu His Val Thr Arg Glu Leu Ile Val Leu Arg Gln
 500 505 510
 Arg Phe Ile Val Pro Leu Leu Lys Gln Arg Gly Thr Val Glu Gly Asn
 515 520 525
 Val Leu Gln Thr Ala Leu Gly Met Val Ala Val Ser Trp Arg Phe Pro
 530 535 540
 Ser Gly Thr Leu Ser Leu Ala Leu Asn Ile Gly Lys Lys Pro Leu Ala
 545 550 555 560
 Leu Pro Asp Leu Pro Gly Lys Thr Ile Phe Ser Trp Pro Glu Ala Val
 565 570 575
 Glu Asn Leu Pro Pro Asn Ser Ile Val Val Arg Phe Ala Asp Gly Glu
 580 585 590
 Ala Ala Leu
 595

<210> 7574

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 7574

Cys Phe Ile Ser Ala Asp Pro Ala Ser Ser Arg Gly Glu Asp Leu Val
 1 5 10 15
 Gly Lys Lys Val Gly Met Thr Arg Ile Phe Thr Glu Asp Gly Val Ser
 20 25 30
 Ile Pro Val Thr Val Ile Glu Val Glu Ala Asn Arg Val Thr Gln Val
 35 40 45
 Lys Asp Leu Ala Asn Asp Gly Tyr Arg Ala Ile Gln Val Thr Thr Gly
 50 55 60
 Ala Lys Lys Ala Asn Arg Val Thr Lys Pro Glu Ala Gly His Phe Ala
 65 70 75 80
 Lys Ala Gly Val Glu Ala Gly Arg Gly Leu Trp Glu Phe Arg Leu Ala
 85 90 95

Glu Gly Glu Glu Phe Thr Val Gly Gln Asp Ile Ser Val Glu Leu Phe
 100 105 110
 Ala Asp Val Lys Lys Val Asp Val Thr Gly Thr Ser Lys Gly Lys Gly
 115 120 125
 Phe Ala Gly Thr Val Lys Arg Trp Asn Phe Arg Thr Gln Asp Ala Thr
 130 135 140
 His Gly Asn Ser Leu Ser His Arg Val Pro Gly Ser Ile Gly Gln Asn
 145 150 155 160
 Gln Thr Pro Gly Lys Val Phe Lys Gly Lys Lys Met Ala Gly Gln Leu
 165 170 175
 Gly Asn Glu Arg Val Thr Val Gln Ser Leu Asp Val Val Arg Val Asp
 180 185 190
 Ala Glu Arg Asn Leu Leu Leu Val Lys Gly Ala Val Pro Gly Ala Thr
 195 200 205
 Gly Ser Asp Leu Ile Val Lys Pro Ala Val Lys Ala
 210 215 220

<210> 7575

<211> 123

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (101)

<400> 7575

Arg Arg Lys Gly Ile Ala Met Glu Leu Val Leu Lys Asp Ala Gln Ser
 1 5 10 15
 Ala Leu Thr Val Ser Glu Thr Thr Phe Gly Arg Asp Phe Asn Glu Ala
 20 25 30
 Leu Val His Gln Val Val Val Ala Tyr Ala Ala Gly Ala Arg Gln Gly
 35 40 45
 Thr Arg Ala Gln Lys Thr Arg Ala Glu Val Thr Gly Ser Gly Lys Lys
 50 55 60
 Pro Trp Arg Gln Lys Gly Thr Gly Arg Ala Arg Ser Gly Ser Ile Lys
 65 70 75 80
 Asn Pro Ile Trp Arg Ser Gly Gly Val Asp Phe Ala Ala Arg Pro Gln
 85 90 95
 Glu Thr Gln Ser Xaa Val Asn Lys Lys Met Leu Arg Gly Ala Leu Lys
 100 105 110
 Ser Ile Leu Val Gln Leu Gly Thr Ser Gly Ser
 115 120

<210> 7576

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 7576

Leu Gln His Asp Gly Ser Leu Arg Ala Ala Ser Met Phe Lys Gln Tyr
 1 5 10 15
 Leu Gln Val Thr Lys Pro Gly Ile Ile Phe Gly Asn Leu Ile Ser Val
 20 25 30
 Ile Gly Gly Phe Leu Leu Ala Ser Lys Gly Ser Ile Asp Tyr Thr Leu
 35 40 45
 Phe Ile Tyr Thr Leu Val Gly Val Ser Leu Val Val Ala Ser Gly Cys
 50 55 60
 Val Phe Asn Asn Tyr Ile Asp Met Asp Ile Asp Lys Lys Met Glu Arg
 65 70 75 80
 Thr Lys Asn Arg Val Leu Val Lys Gly Leu Ile Ala Pro Ser Val Ser

85 90 95
 Leu Val Tyr Ala Thr Leu Leu Gly Ile Ala Gly Phe Met Leu Leu Trp
 100 105 110
 Phe Gly Ala Asn Pro Leu Ala Cys Trp Leu Gly Val Met Gly Phe Val
 115 120 125
 Val Tyr Val Arg Val Tyr Ser Leu Tyr Met Lys Arg His Ser Val Tyr
 130 135 140
 Gly Thr Leu Ile Gly Ser Leu Ser Gly Ala Ala Pro Pro Val Ile Gly
 145 150 155 160
 Tyr Cys Ala Val Thr Asn Glu Phe Asp Ser Gly Ala Leu Ile Leu Leu
 165 170 175
 Ala Ile Phe Ser Leu Trp Gln Met Pro His Ser Tyr Ala Ile Ala Ile
 180 185 190
 Phe Arg Phe Lys Asp Tyr Gln Ala Ala Asn Ile Pro Val Leu Pro Val
 195 200 205
 Val Lys Gly Ile Ser Val Ala Lys Asn His Ile Thr Leu Tyr Ile Ile
 210 215 220
 Ala Phe Ala Val Ala Thr Leu Met Leu Ser Leu Gly Gly Tyr Ala Gly
 225 230 235 240
 Tyr Lys Tyr Leu Val Val Ala Ala Val Ser Val Trp Trp Leu Gly
 245 250 255
 Met Ala Leu Arg Gly Tyr Lys Val Glu Asp Asp Lys Val Trp Ala Arg
 260 265 270
 Lys Leu Phe Val Phe Ser Ile Val Ala Ile Thr Ser Leu Ser Val Met
 275 280 285
 Met Ser Val Asp Phe Met Val Pro Asp Ser Gln Asn Leu Leu Thr Tyr
 290 295 300
 Val Trp
 305

<210> 7577

<211> 458

<212> PRT

<213> Enterobacter cloacae

<400> 7577

Thr Glu Val Val Met Asn Asp Tyr Lys Met Thr Pro Gly Glu Leu Arg
 1 5 10 15
 Ala Thr Trp Gly Leu Gly Thr Val Phe Ser Leu Arg Met Leu Gly Met
 20 25 30
 Phe Met Val Leu Pro Val Leu Thr Thr Tyr Gly Met Ala Leu Gln Gly
 35 40 45
 Ala Ser Glu Ala Leu Ile Gly Leu Ala Ile Gly Ile Tyr Gly Leu Ala
 50 55 60
 Gln Ala Ile Phe Gln Ile Pro Phe Gly Leu Leu Ser Asp Arg Val Gly
 65 70 75 80
 Arg Lys Pro Leu Ile Val Gly Gly Leu Leu Val Phe Val Leu Gly Ser
 85 90 95
 Ile Ile Ala Ala Leu Ser His Ser Ile Trp Gly Ile Ile Leu Gly Arg
 100 105 110
 Ala Leu Gln Gly Ser Gly Ala Ile Ala Ala Val Met Ala Leu Leu
 115 120 125
 Ser Asp Leu Thr Arg Glu Gln Asn Arg Thr Lys Ala Met Ala Phe Ile
 130 135 140
 Gly Val Ser Phe Gly Val Thr Phe Ala Ile Ala Met Val Leu Gly Pro
 145 150 155 160
 Ile Ile Thr His Ser Leu Gly Leu His Ala Leu Phe Trp Met Ile Ala
 165 170 175
 Met Leu Ala Thr Ile Gly Ile Ala Leu Thr Leu Trp Val Val Pro Asp
 180 185 190
 Ser Lys Asn His Val Leu Asn Arg Glu Ser Gly Met Val Lys Gly Cys

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      195              200              205
Phe Ser Lys Val Ile Val Glu Pro Arg Leu Leu Lys Leu Asn Phe Gly
210              215              220
Ile Met Cys Leu His Ile Leu Leu Met Ser Thr Phe Val Ala Leu Pro
225              230              235              240
Gly Gln Leu Ala Ala Ala Gly Phe Pro Ala Ala Glu His Trp Lys Ile
      245              250              255
Tyr Leu Val Thr Met Leu Ile Ser Phe Val Ser Val Val Pro Phe Ile
      260              265              270
Ile Tyr Ala Glu Val Lys Arg Lys Met Lys Arg Val Phe Val Gly Cys
275              280              285
Val Ala Leu Leu Leu Ile Ala Glu Ile Val Leu Trp Gly Ala Gly Pro
290              295              300
His Phe Trp Glu Leu Ile Ala Gly Val Gln Leu Phe Phe Leu Ala Phe
305              310              315              320
Asn Leu Met Glu Ala Leu Leu Pro Ser Leu Ile Ser Lys Glu Ser Pro
      325              330              335
Ala Gly Tyr Lys Gly Thr Ala Met Gly Ile Tyr Ser Thr Ser Gln Phe
      340              345              350
Leu Gly Val Ala Ile Gly Gly Ser Leu Gly Gly Trp Val Asp Gly Leu
355              360              365
Phe Asp Ser Gln Thr Val Phe Leu Ala Gly Ala Leu Ala Met Leu
370              375              380
Trp Leu Phe Val Ala Ser Thr Met Lys Glu Pro Arg Tyr Val Ser Ser
385              390              395              400
Leu Arg Val Glu Ile Pro Asp Asp Val Ala Ile Gly Asp Ala Leu Gln
      405              410              415
Gln Arg Leu Glu Ala Thr Glu Gly Val Ser Glu Val Leu Ile Val Pro
      420              425              430
Glu Glu Arg Ser Ala Tyr Val Lys Ile Asp Ser Lys Val Thr Asn Arg
435              440              445
Phe Glu Val Glu Gln Ala Leu Lys Ala
450              455

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<210> 7578

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 7578

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Asp Lys Gly Ser Met Pro Asp Gly Thr Ile Leu Ser Thr Ile Ala Ala
1      5      10      15
Ile Cys Asp Phe Lys Glu Leu Asn Ala Met Thr Arg Arg Tyr Leu Lys
20      25      30
Ile Val Leu Val Gly Ser Leu Phe Thr Leu Ser Ala Cys Ala Gln Gln
35      40      45
Ser Glu Val Arg Glu Met Lys Gln Ser Val Asn Thr Leu Asn Val Ala
50      55      60
Met Asp Lys Leu Asn Lys Glu Thr Val Lys Ile Thr Gln Gln Asn Ala
65      70      75      80
Leu Asn Ala Lys Ser Ser Asn Gly Val His Leu Leu Pro Gly Ala Asn
85      90      95
Thr Pro Ala Arg Leu Asn Ser Gln Ile Gly Thr Leu Lys Met Ser Leu
100      105      110
Val Asn Val Ala Ala Asn Ala Asp Gly Thr Arg Ala Thr Leu Arg Ile
115      120      125
Gln Gly Glu Ser Asn Asp Pro Leu Pro Ala Phe Ser Gly Thr Val Glu
130      135      140
Trp Gly Gln Ile Gln Gly Thr Thr Glu Ser Tyr Gln Glu Val Asn Val
145      150      155      160
Lys Asn Gln Leu Phe Thr Ala Pro Ala Ser Thr Leu Ala Pro Ser Asp

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165 170 175
 Val Asp Ile Pro Leu Gln Leu Ser Gly Leu Thr Pro Glu Gln Leu Gly
 180 185 190
 Phe Ile Arg Ile His Asp Ile Gln Pro Ala Ala Gln
 195 200 205

<210> 7579

<211> 677

<212> PRT

<213> Enterobacter cloacae

<400> 7579

Ala Thr Arg Lys Pro Leu Thr Lys Gly Pro Arg Lys Lys Met Phe Gly
 1 5 10 15
 Lys Leu Thr Leu Asp Ala Val Pro Tyr His Glu Pro Ile Ile Met Val
 20 25 30
 Thr Val Ala Ala Ile Ile Ile Gly Gly Ala Ala Leu Val Gly Leu Ile
 35 40 45
 Thr Tyr Phe Gly Lys Trp Ser Tyr Leu Trp Asn Glu Trp Leu Thr Ser
 50 55 60
 Val Asp His Lys Lys Leu Gly Ile Met Tyr Cys Ile Val Gly Ile Val
 65 70 75 80
 Met Leu Ile Arg Gly Phe Ala Asp Ala Ile Met Met Arg Ser Gln Gln
 85 90 95
 Ala Leu Ala Ser Ala Gly Glu Ala Gly Phe Leu Pro Pro His His Tyr
 100 105 110
 Asp Gln Ile Phe Thr Ala His Gly Val Ile Met Ile Phe Phe Val Ala
 115 120 125
 Met Pro Leu Val Ile Gly Leu Met Asn Val Val Val Pro Leu Gln Ile
 130 135 140
 Gly Ala Arg Asp Val Ala Phe Pro Phe Leu Asn Asn Leu Ser Phe Trp
 145 150 155 160
 Phe Thr Val Val Gly Val Ile Leu Val Asn Leu Ser Leu Gly Val Gly
 165 170 175
 Glu Phe Ala Gln Thr Gly Trp Leu Ala Tyr Pro Pro Leu Ser Gly Ile
 180 185 190
 Glu Tyr Ser Pro Gly Val Gly Val Asp Tyr Trp Ile Trp Ala Leu Gln
 195 200 205
 Leu Ser Gly Val Gly Thr Thr Leu Thr Gly Ile Asn Phe Phe Val Thr
 210 215 220
 Ile Leu Lys Met Arg Ala Pro Gly Met Thr Met Phe Lys Met Pro Val
 225 230 235 240
 Phe Thr Trp Ala Ser Leu Cys Ala Asn Val Leu Ile Ile Ala Ser Phe
 245 250 255
 Pro Ile Leu Thr Val Thr Ile Ala Leu Leu Thr Leu Asp Arg Tyr Leu
 260 265 270
 Gly Thr His Phe Phe Thr Asn Asp Met Gly Gly Asn Met Met Tyr
 275 280 285
 Ile Asn Leu Ile Trp Ala Trp Gly His Pro Glu Val Tyr Ile Leu Val
 290 295 300
 Leu Pro Val Phe Gly Val Phe Ser Glu Ile Ala Ala Thr Phe Ser Arg
 305 310 315 320
 Lys Arg Leu Phe Gly Tyr Thr Ser Leu Val Trp Ala Thr Val Cys Ile
 325 330 335
 Thr Val Leu Ser Phe Ile Val Trp Leu His His Phe Phe Thr Met Gly
 340 345 350
 Ala Gly Ala Asn Val Asn Ala Phe Phe Gly Ile Thr Thr Met Ile Ile
 355 360 365
 Ala Ile Pro Thr Gly Val Lys Ile Phe Asn Trp Leu Phe Thr Met Tyr
 370 375 380
 Gln Gly Arg Ile Val Phe His Ser Ala Met Leu Trp Thr Ile Gly Phe

385 390 395 400
 Ile Val Thr Phe Ser Val Gly Gly Met Thr Gly Val Leu Leu Ala Val
 405 410 415
 Pro Gly Ala Asp Phe Val Leu His Asn Ser Leu Phe Leu Ile Ala His
 420 425 430
 Phe His Asn Val Ile Ile Gly Gly Val Val Phe Gly Cys Phe Ala Gly
 435 440 445
 Val Thr Tyr Trp Trp Pro Lys Ala Phe Gly Phe Thr Leu Asn Glu Lys
 450 455 460
 Trp Gly Lys Arg Ala Phe Trp Phe Trp Ile Ile Gly Phe Phe Val Ala
 465 470 475 480
 Phe Met Pro Leu Tyr Val Leu Gly Phe Met Gly Met Thr Arg Arg Leu
 485 490 495
 Ser Gln Gln Ile Asp Pro Gln Phe His Pro Met Leu Met Ile Ala Ala
 500 505 510
 Gly Gly Ala Ala Leu Ile Ala Cys Gly Ile Leu Cys Gln Leu Ile Gln
 515 520 525
 Tyr Tyr Val Ser Ile Arg Asp Arg Asn Leu Asn Arg Asp Leu Thr Gly
 530 535 540
 Asp Pro Trp Gly Gly Arg Thr Leu Glu Trp Ser Thr Ser Ser Pro Pro
 545 550 555 560
 Pro Phe Tyr Asn Phe Ala Val Val Pro His Ile His Glu Arg Asp Ala
 565 570 575
 Phe Trp Glu Met Lys Glu Lys Gly Glu Ala Tyr Lys Gln Pro Glu His
 580 585 590
 Tyr Glu Glu Ile His Met Pro Lys Asn Ser Gly Ala Gly Ile Val Ile
 595 600 605
 Ala Ala Phe Ala Thr Val Phe Gly Phe Ala Met Ile Trp His Ile Trp
 610 615 620
 Trp Met Ala Ile Val Gly Phe Ala Gly Ile Val Ile Ser Trp Ile Val
 625 630 635 640
 Lys Ser Phe Asp Glu Asp Val Asp Tyr Tyr Val Pro Val Arg Glu Val
 645 650 655
 Glu Lys Leu Glu Asn Gln His Phe Asp Glu Ile Ser Lys Ala Gly Leu
 660 665 670
 Lys Asn Gly Asn
 675

<210> 7580

<211> 141

<212> PRT

<213> *Enterobacter cloacae*

<400> 7580

Pro Tyr Pro Tyr Tyr Val Pro Glu Pro Val Leu Ala Leu Pro Gly Arg
 1 5 10 15
 Gly Met Asp Leu Cys Val Leu Cys Cys Leu Ser Asp Gly Gly Asp Val
 20 25 30
 Met Ser His Ser Asn Asp His Gly Ala Ser His Gly Ser Val Lys Thr
 35 40 45
 Tyr Met Thr Gly Phe Ile Leu Ser Ile Ile Leu Thr Val Ile Pro Phe
 50 55 60
 Trp Met Val Met Asn Gly Ser Ala Ser Lys Pro Val Ile Leu Gly Ala
 65 70 75 80
 Ile Leu Val Thr Ala Val Ile Gln Ile Leu Val His Leu Val Cys Phe
 85 90 95
 Leu His Met Asn Thr Lys Ser Asp Glu Gly Trp Asn Met Thr Ala Phe
 100 105 110
 Ile Phe Thr Val Ile Ile Ile Ala Ile Leu Val Val Gly Ser Ile Trp
 115 120 125
 Ile Met Trp Asn Leu Asn Tyr Asn Met Met Val His

130

135

140

<210> 7581

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 7581

Gly Gly Thr Met Lys Val Thr Val Leu Gly Cys Gly Ala Leu Gly Gln
 1 5 10 15
 Leu Trp Leu Thr Ala Leu Cys Lys Gln Gly His Asp Val Gln Gly Trp
 20 25 30
 Leu Arg Ile Pro Gln Pro Tyr Cys Ser Val Asn Val Met Gly Thr Asp
 35 40 45
 Gly Ser Ile Phe Asn Glu Ser Leu Thr Ala Asn Asp Pro Glu Phe Leu
 50 55 60
 Ala Thr Ser Asp Leu Leu Leu Val Thr Leu Lys Ala Trp Gln Val Ser
 65 70 75 80
 Asp Ala Val Lys Ser Leu Ala Ala Gln Leu Pro Glu Ser Thr Pro Ile
 85 90 95
 Leu Leu Ile His Asn Gly Met Gly Thr Ile Glu Glu Leu Lys Ser Val
 100 105 110
 Arg Gln Pro Leu Leu Met Gly Thr Thr Thr His Ala Ala Arg Arg Asp
 115 120 125
 Gly Asn Val Ile Ile His Val Ala Ser Gly Ile Thr His Ile Gly Pro
 130 135 140
 Ala Arg Glu Gln Pro Gly Asp Tyr Ser Tyr Leu Ala Asp Thr Leu Gln
 145 150 155 160
 Ser Thr Leu Pro Asp Val Ala Trp His Asn Asn Ile Arg Ala Glu Leu
 165 170 175
 Trp Arg Lys Leu Ala Val Asn Cys Ala Ile Asn Pro Leu Thr Ala Leu
 180 185 190
 Leu Asp Cys Pro Asn Gly Glu Leu Arg Gln His Pro Asp Arg Val Ala
 195 200 205
 Leu Ile Cys Arg Glu Val Ala Ala Val Ile Glu Arg Glu Gly Tyr His
 210 215 220
 Thr Ser Glu Ser Asp Leu Arg Tyr Tyr Val Asp Gln Val Ile Glu Ser
 225 230 235 240
 Thr Ala Glu Asn Ile Ser Ser Met Leu Gln Asp Ile Arg Ala Met Arg
 245 250 255
 His Thr Glu Ile Asp Tyr Ile Thr Gly Tyr Leu Leu Lys Arg Ala Arg
 260 265 270
 Ala His Gly Ile Thr Val Ala Glu Asn Ser Arg Leu Phe Glu Leu Val
 275 280 285
 Lys Arg Lys Glu Ser Glu Tyr Glu Arg Ile Gly Thr Gly Met Pro Arg
 290 295 300
 Pro Trp
 305

<210> 7582

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 7582

Thr Tyr Cys Leu Asn Ser Arg Ser Gly Thr Met Gln Tyr Thr Thr Leu
 1 5 10 15
 Gly Lys Thr Asp Leu Lys Val Ser Arg Leu Cys Leu Gly Cys Met Thr
 20 25 30
 Phe Gly Glu Pro Asp Arg Gly Asn His Ala Trp Thr Leu Pro Glu Glu
 35 40 45

Ser Ser Arg Pro Ile Ile Lys Arg Ala Ile Asp Gly Gly Ile Asn Phe
 50 55 60
 Phe Asp Thr Ala Asn Ser Tyr Ser Asp Gly Ser Ser Glu Glu Ile Val
 65 70 75 80
 Gly Arg Ala Leu Arg Asp Phe Ala Arg Arg Asp Asp Val Val Val Ala
 85 90 95
 Thr Lys Val Tyr Tyr Pro Ser Gly Asp Leu Ala Glu Gly Leu Ser Arg
 100 105 110
 Ala Gln Ile Leu Arg Ser Ile Asp Asp Ser Leu Arg Arg Leu Asn Met
 115 120 125
 Asp Tyr Val Asp Leu Leu Gln Ile His Arg Trp Asp Tyr Asn Thr Pro
 130 135 140
 Ile Glu Glu Thr Leu Glu Ala Leu Asn Asp Val Val Lys Ala Gly Lys
 145 150 155 160
 Ala Arg Tyr Ile Gly Ala Ser Ser Met His Ala Ser Gln Phe Ala Gln
 165 170 175
 Ala Leu Asp Leu Gln Ala Gln His Gly Trp Ala Arg Phe Val Thr Met
 180 185 190
 Gln Asp His Tyr Asn Leu Ile Tyr Arg Glu Glu Glu Arg Glu Met Leu
 195 200 205
 Pro Leu Cys Tyr Gln Glu Gly Val Ala Val Ile Pro Trp Ser Pro Leu
 210 215 220
 Ala Arg Gly Arg Leu Thr Arg Pro Trp Gly Glu Thr Thr Ala Arg Leu
 225 230 235 240
 Val Ser Asp Glu Val Gly Lys Asn Leu Tyr Asp Asp Thr Glu Thr Ser
 245 250 255
 Asp Ala Leu Ile Ala Glu Arg Leu Ala Gly Ile Ala Asp Asp Ile Gly
 260 265 270
 Ala Thr Arg Ala Gln Val Ala Leu Ala Trp Leu Leu Ser Lys Arg Gly
 275 280 285
 Val Ala Ala Pro Ile Val Gly Thr Ser Arg Glu Glu Gln Leu Asp Glu
 290 295 300
 Leu Leu Ser Ala Val Asp Leu Ser Leu Thr Pro Glu Gln Ile Ala Glu
 305 310 315 320
 Leu Glu Thr Pro Tyr Gln Gln His Pro Val Val Gly Phe Lys
 325 330 335

<210> 7583

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 7583

Lys Met Ala Thr Asp Thr Leu Ala His Ser Thr Ala His Ala His Glu
 1 5 10 15
 His Ala His His Asp Thr Gly Pro Thr Lys Val Phe Gly Phe Trp Ile
 20 25 30
 Tyr Leu Met Ser Asp Cys Ile Leu Phe Cys Cys Leu Phe Ala Thr Tyr
 35 40 45
 Ala Val Leu Val Asn Gly Thr Ala Gly Gly Pro Thr Gly Lys Asp Ile
 50 55 60
 Phe Glu Leu Pro Phe Val Leu Val Glu Thr Ala Leu Leu Leu Phe Ser
 65 70 75 80
 Ser Ile Thr Tyr Gly Met Ala Ala Ile Ala Met Tyr Lys Asn Asn Lys
 85 90 95
 Ser Gln Val Val Ser Trp Leu Ala Leu Thr Trp Leu Phe Gly Ala Gly
 100 105 110
 Phe Ile Gly Met Glu Ile Tyr Glu Phe His His Leu Ile Met Glu Gly
 115 120 125
 Phe Gly Pro Asp Arg Ser Gly Phe Leu Ser Ala Phe Phe Ala Leu Val
 130 135 140

Gly Thr His Gly Leu His Val Thr Ser Gly Leu Ile Trp Met Ala Val
 145 150 155 160
 Leu Met Phe Gln Ile Ser Arg Arg Gly Leu Thr Ser Thr Asn Arg Thr
 165 170 175
 Arg Ile Met Cys Leu Ser Leu Phe Trp His Phe Leu Asp Val Val Trp
 180 185 190
 Ile Cys Val Phe Ser Val Val Tyr Leu Met Gly Ala Met
 195 200 205

<210> 7584

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 7584

Asn Glu Arg Arg Val Ser Met Ser Ala Ser Ala Leu Val Cys Leu Ala
 1 5 10 15
 Pro Gly Ser Glu Glu Thr Glu Ala Val Thr Thr Ile Asp Leu Leu Val
 20 25 30
 Arg Gly Gly Ile Lys Val Thr Thr Ala Ser Val Ala Ser Asp Gly Ser
 35 40 45
 Leu Ala Ile Thr Cys Ser Arg Gly Val Lys Ile Leu Ala Asp Ala Pro
 50 55 60
 Leu Val Gln Val Ala Asp Gly Asp Tyr Asp Ile Ile Val Leu Pro Gly
 65 70 75 80
 Gly Leu Lys Gly Ala Glu Cys Phe Arg Asp Ser Pro Leu Leu Val Glu
 85 90 95
 Thr Val Arg Gln Phe His Leu Ser Gly Arg Ile Val Ala Ala Ile Cys
 100 105 110
 Ala Ala Ala Gly Thr Val Leu Val Pro His Asp Ile Phe Pro Ile Gly
 115 120 125
 Asn Met Thr Gly Phe Pro Gly Leu Lys Asp Thr Ile Pro Glu Asp Gln
 130 135 140
 Trp Val Asp Lys Arg Val Val Trp Asp Pro Arg Val Asn Leu Leu Thr
 145 150 155 160
 Ser Gln Gly Pro Gly Thr Ala Ile Asp Phe Gly Leu Lys Ile Ile Asp
 165 170 175
 Leu Leu Val Gly Arg Glu Lys Ala Tyr Glu Val Ala Ser Ser Leu Val
 180 185 190
 Met Ala Ala Gly Ile Tyr Asn Tyr Tyr Glu
 195 200

<210> 7585

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 7585

Phe Thr Met Pro Lys Lys Asn Asp Ala Pro Ala Ser Phe Glu Thr Ala
 1 5 10 15
 Leu Ser Glu Leu Glu Gln Ile Val Thr Arg Leu Glu Ser Gly Asp Leu
 20 25 30
 Pro Leu Glu Asp Ala Leu Asn Glu Phe Glu Arg Gly Val Gln Leu Ala
 35 40 45
 Arg Gln Gly Gln Val Lys Leu Gln Gln Ala Glu Gln Arg Val Gln Ile
 50 55 60
 Leu Leu Ser Asp Ser Glu Asp Ala Lys Thr Thr Pro Phe Thr Pro Asp
 65 70 75 80
 Ala Glu

<210> 7586
 <211> 300
 <212> PRT
 <213> Enterobacter cloacae

<400> 7586
 Met Asp Phe Ser Asn Ala Leu Gln Ala Arg Val Ile Arg Ala Asn Asp
 1 5 10 15
 Ala Leu Arg Arg Phe Ile Glu Pro Gln Pro Phe Gln Asn Thr Pro Leu
 20 25 30
 Val Glu Ala Met His Tyr Gly Ala Leu Leu Gly Gly Lys Arg Leu Arg
 35 40 45
 Pro Phe Leu Val Tyr Ala Thr Gly Asn Met Phe Gly Ile Ser Asp Asn
 50 55 60
 Thr Leu Asp Ala Pro Ala Ala Ala Val Glu Cys Ile His Ala Tyr Ser
 65 70 75 80
 Leu Ile His Asp Asp Leu Pro Ala Met Asp Asp Asp Leu Arg Arg
 85 90 95
 Gly Gln Pro Thr Cys His Ile Lys Phe Gly Glu Ala Asn Ala Ile Leu
 100 105 110
 Ala Gly Asp Ala Leu Gln Thr Leu Ala Phe Ser Ile Leu Ser Asp Ala
 115 120 125
 Pro Met Val Glu Val Ser Asp Arg Asp Arg Leu Ala Met Val Ser Glu
 130 135 140
 Leu Ala Met Ala Ser Gly Val Ala Gly Met Cys Gly Gly Gln Ala Leu
 145 150 155 160
 Asp Leu Glu Ala Glu Gly Arg Gln Val Thr Leu Glu Gln Leu Glu Arg
 165 170 175
 Ile His Arg His Lys Thr Gly Ala Leu Ile Arg Ala Ala Val Arg Leu
 180 185 190
 Gly Ala Leu Ser Ala Gly Glu Arg Gly Arg Lys Ala Leu Pro Ile Leu
 195 200 205
 Asp Arg Tyr Ala Glu Ser Ile Gly Leu Ala Phe Gln Val Gln Asp Asp
 210 215 220
 Ile Leu Asp Val Val Gly Asp Thr Ala Thr Leu Gly Lys Arg Gln Gly
 225 230 235 240
 Ala Asp Gln Gln Leu Gly Lys Ser Thr Tyr Pro Ala Leu Leu Gly Leu
 245 250 255
 Glu His Ala Gln Arg Lys Ala Arg Asp Leu Ile Asp Asp Ala Arg Gln
 260 265 270
 Ser Leu Asn Glu Leu Ala Ala Gln Ser Leu Asp Thr Ser Ala Leu Glu
 275 280 285
 Ala Leu Ala Asp Tyr Ile Ile Gln Arg Asp Lys 300
 290 295

<210> 7587
 <211> 629
 <212> PRT
 <213> Enterobacter cloacae

<400> 7587
 Thr Ile Asn Leu Asp Glu Pro Leu Met Ser Phe Asp Ile Ala Lys Tyr
 1 5 10 15
 Pro Thr Leu Ala Leu Val Asp Ser Thr Gln Glu Leu Arg Leu Leu Pro
 20 25 30
 Lys Glu Ser Leu Pro Lys Leu Cys Asp Glu Leu Arg Arg Tyr Leu Leu
 35 40 45
 Asp Ser Val Ser Arg Ser Ser Gly His Phe Ala Ser Gly Leu Gly Thr
 50 55 60
 Val Glu Leu Thr Val Ala Leu His Tyr Val Tyr Asn Thr Pro Phe Asp
 65 70 75 80

Gln Leu Ile Trp Asp Val Gly His Gln Ala Tyr Pro His Lys Ile Leu
 85 90 95
 Thr Gly Arg Arg Asp Lys Ile Gly Thr Ile Arg Gln Lys Gly Gly Leu
 100 110
 His Pro Phe Pro Trp Arg Gly Glu Ser Glu Tyr Asp Val Leu Ser Val
 115 120 125
 Gly His Ser Ser Thr Ser Ile Ser Ala Gly Ile Gly Ile Ala Val Ala
 130 135 140
 Ala Glu Lys Glu Asn Lys Gln Arg Arg Thr Val Cys Val Ile Gly Asp
 145 150 155 160
 Gly Ala Ile Thr Ala Gly Met Ala Phe Glu Ala Met Asn His Ala Gly
 165 170 175
 Asp Ile Lys Pro Asp Met Leu Val Ile Leu Asn Asp Asn Glu Met Ser
 180 185 190
 Ile Ser Glu Asn Val Gly Ala Leu Asn Asn His Leu Ala Gln Leu Leu
 195 200 205
 Ser Gly Lys Leu Tyr Ser Ser Leu Arg Glu Gly Gly Lys Lys Val Phe
 210 215 220
 Ser Gly Val Pro Pro Ile Lys Glu Leu Leu Lys Arg Thr Glu Glu His
 225 230 235 240
 Ile Lys Gly Met Val Val Pro Gly Thr Leu Phe Glu Glu Leu Gly Phe
 245 250 255
 Asn Tyr Ile Gly Pro Val Asp Gly His Asp Val Leu Gly Leu Val Thr
 260 265 270
 Thr Leu Lys Asn Met Arg Asp Leu Lys Gly Pro Gln Phe Leu His Ile
 275 280 285
 Met Thr Lys Lys Gly Arg Gly Tyr Glu Pro Ala Glu Lys Asp Pro Ile
 290 295 300
 Thr Phe His Ala Val Pro Lys Phe Asp His Thr Ser Gly Cys Leu Pro
 305 310 315 320
 Lys Ser Ser Gly Gly Met Pro Ser Tyr Ser Lys Ile Phe Gly Asp Trp
 325 330 335
 Leu Cys Glu Thr Ala Ala Lys Asp Asn Met Leu Met Ala Val Thr Pro
 340 345 350
 Ala Met Arg Glu Gly Ser Gly Met Val Glu Phe Ser Lys Lys Tyr Pro
 355 360 365
 Asp Gln Tyr Phe Asp Val Ala Ile Ala Glu Gln His Ala Val Thr Phe
 370 375 380
 Ala Ala Gly Leu Ala Ile Gly Gly Tyr Lys Pro Val Val Ala Ile Tyr
 385 390 395 400
 Ser Thr Phe Leu Gln Arg Ala Tyr Asp Gln Val Ile His Asp Val Ala
 405 410 415
 Ile Gln Lys Leu Pro Val Leu Phe Ala Ile Asp Arg Ala Gly Ile Val
 420 425 430
 Gly Ala Asp Gly Gln Thr His Gln Gly Ala Phe Asp Leu Ser Phe Leu
 435 440 445
 Arg Cys Ile Pro Asp Met Val Ile Met Thr Pro Ser Asp Glu Asn Glu
 450 455 460
 Cys Arg Gln Met Leu Tyr Thr Gly Tyr His Tyr Gln Asp Gly Pro Cys
 465 470 475 480
 Ala Val Arg Tyr Pro Arg Gly Asn Ala Leu Gly Val Glu Leu Gln Pro
 485 490 495
 Leu Glu Lys Leu Asp Ile Gly Lys Ala Leu Val Lys Arg Arg Gly Glu
 500 505 510
 Lys Val Ala Ile Leu Asn Phe Gly Thr Leu Met Pro Glu Ala Ala Lys
 515 520 525
 Val Ala Glu Asn Leu Asn Ala Thr Leu Val Asp Met Arg Phe Val Lys
 530 535 540
 Pro Leu Asp Glu Ser Leu Ile Leu Ser Met Ala Glu Ser His Asp Val
 545 550 555 560
 Leu Val Thr Leu Glu Glu Asn Ala Ile Met Gly Gly Ala Gly Ser Gly

Val Asn Glu Val 565 Leu Met Ala Asn Arg 570 Lys Ala Val Pro Val Leu Asn
 580 585 590
 Leu Gly Leu Pro Asp His Phe Ile Pro Gln Gly Thr Gln Asp Glu Ala
 595 600 605
 Arg Ala Asp Ile Gly Leu Asp Ala Ala Gly Ile Glu Ala Lys Ile Arg
 610 615 620
 Thr Trp Leu Ala
 625

<210> 7588

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 7588

Lys Ser Ser Ile Lys Ser Pro Ile Ser Ala Leu Pro Pro Phe Thr Ala
 1 5 10 15
 Ala Ser Lys Thr Ser Lys Ser Leu Ala Lys Arg Ser Pro Ala Tyr Arg
 20 25 30
 Ile Lys Thr Met His Asp Glu Met Tyr Met Ala Arg Ala Met Lys Leu
 35 40 45
 Ala Gln Arg Gly Arg Phe Thr Thr His Pro Asn Pro Asn Val Gly Cys
 50 55 60
 Val Ile Val Lys Asp Gly Glu Ile Val Gly Glu Gly Phe His Tyr Arg
 65 70 75 80
 Ala Gly Glu Pro His Ala Glu Val His Ala Leu Arg Met Ala Gly Glu
 85 90 95
 Lys Ala Arg Gly Ala Thr Ala Tyr Val Thr Leu Glu Pro Cys Ser His
 100 105 110
 His Gly Arg Thr Pro Pro Cys Cys Glu Ala Leu Ile Ala Gly Val
 115 120 125
 Ser Arg Val Val Ala Ala Met Gln Asp Pro Asn Pro Gln Val Ala Gly
 130 135 140
 Arg Gly Leu Tyr Arg Leu Gln Gln Glu Gly Ile Asp Val Ser His Gly
 145 150 155 160
 Leu Met Met Gln Asp Ala Glu Ala Leu Asn Lys Gly Phe Leu Lys Arg
 165 170 175
 Met Arg Thr Gly Phe Pro Phe Ile Gln Leu Lys Leu Gly Ala Ser Leu
 180 185 190
 Asp Gly Arg Thr Ala Met Ala Asn Gly Glu Ser Gln Trp Ile Thr Ser
 195 200 205
 Pro Gln Ala Arg Arg Asp Val Gln Arg Leu Arg Ala Gln Ser His Ala
 210 215 220
 Ile Leu Thr Ser Ser Glu Thr Val Leu Ala Asp Asp Pro Ala Met Thr
 225 230 235 240
 Val Arg Trp Glu Glu Leu Asn Ala Asp Thr Gln Ala Leu Tyr Pro Gln
 245 250 255
 Glu Asn Leu Arg Gln Pro Leu Arg Ile Ile Asp Ser Gln Asn Arg
 260 265 270
 Val Thr Pro Glu His Arg Ile Val Gln Gln Pro Gly Glu Thr Trp Ile
 275 280 285
 Ala Arg Thr Lys Glu Asp Thr Arg Glu Trp Pro Gln Gly Val Arg Ser
 290 295 300
 Ile Thr Val Pro Glu His Asn Gly His Leu Asp Leu Val Val Leu Met
 305 310 315 320
 Met Leu Leu Gly Lys Gln Gln Val Asn Ser Ile Trp Val Glu Ala Gly
 325 330 335
 Pro Thr Leu Ala Gly Ala Leu Leu Gln Ala Gly Leu Val Asp Glu Leu
 340 345 350
 Leu Val Tyr Val Ala Pro Lys Leu Leu Gly Asn Asp Ala Arg Gly Leu

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          355          360          365
Phe Val Leu Pro Gly Leu Glu Lys Leu Ala Asp Ala Pro Gln Leu Ser
   370          375          380
Phe Ser Glu Ile Arg Pro Val Gly Pro Asp Val Cys Leu His Leu Thr
   385          390          395          400
Thr Ala

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<210> 7589

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 7589

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Arg Lys Ser Met Asn Ile Ile Glu Ala Ala Val Ala Thr Pro Asp Ala
 1          5          10          15
Arg Val Ala Ile Thr Ile Ala Arg Phe Asn Asn Phe Ile Asn Asp Ser
          20          25          30
Leu Leu Glu Gly Ala Val Asp Ala Leu Lys Arg Ile Gly Gln Val Lys
   35          40          45
Asp Asp Asn Ile Thr Val Val Trp Val Pro Gly Ala Tyr Glu Leu Pro
   50          55          60
Leu Ala Ala Gly Ala Leu Ala Lys Thr Gly Lys Tyr Asp Ala Val Ile
   65          70          75          80
Ala Leu Gly Thr Val Ile Arg Gly Gly Thr Ala His Phe Glu Tyr Val
          85          90          95
Ala Gly Gly Ala Ser Asn Gly Leu Ala His Val Ala Gln Asp Ala Glu
          100          105          110
Ile Pro Val Ala Phe Gly Val Leu Thr Thr Glu Ser Ile Glu Gln Ala
          115          120          125
Ile Glu Arg Ala Gly Thr Lys Ala Gly Asn Lys Gly Ala Glu Ala Ala
          130          135          140
Leu Thr Ala Leu Glu Met Ile Asn Val Leu Lys Ala Ile Lys Ala
145          150          155          160

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<210> 7590

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 7590

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Phe Phe Cys Lys Gly Asn Ser Val Lys Pro Ala Ala Arg Arg Arg Ala
 1          5          10          15
Arg Glu Cys Ala Val Gln Ala Leu Tyr Ser Trp Gln Leu Ser Gln Asn
          20          25          30
Asp Ile Ala Asp Val Glu Tyr Gln Phe Leu Ser Glu Gln Asp Val Lys
   35          40          45
Asp Val Asp Val Leu Tyr Phe Arg Glu Leu Leu Ser Gly Val Ala Thr
   50          55          60
Asn Ser Ala Tyr Leu Asp Gly Leu Met Lys Pro Tyr Leu Ser Arg Leu
   65          70          75          80
Leu Glu Glu Leu Gly Gln Val Glu Lys Ala Val Leu Arg Ile Ala Leu
          85          90          95
Phe Glu Leu Ser Lys Arg Asp Asp Val Pro Tyr Lys Val Ala Ile Asn
          100          105          110
Glu Ala Ile Glu Leu Ala Lys Thr Phe Gly Ala Glu Asp Ser His Lys
          115          120          125
Phe Val Asn Gly Val Leu Asp Lys Ala Ala Pro Ala Ile Arg Pro His
          130          135          140
Lys Lys
145

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<210> 7591

<211> 185

<212> PRT

<213> *Enterobacter cloacae*

<400> 7591

Ala Ser Arg Tyr Ala Ser Leu Arg Val Leu Cys Asn Ala Thr Lys Met
 1 5 10 15
 Lys Gly Glu Glu Lys Met Pro Ser Phe Asp Ile Val Ser Glu Val Asp
 20 25 30
 Leu Gln Glu Ala Arg Asn Gly Val Glu Asn Ala Val Arg Glu Val Glu
 35 40 45
 Ser Arg Phe Asp Phe Arg Gly Val Glu Ala Thr Ile Glu Leu Asn Asp
 50 55 60
 Ala Asn Lys Thr Ile Lys Val Leu Ser Glu Ser Asp Phe Gln Val Asn
 65 70 75 80
 Gln Leu Leu Asp Ile Leu Arg Ala Lys Leu Lys Arg Gly Ile Glu
 85 90 95
 Gly Thr Ser Leu Asp Val Pro Glu Asp Phe Val His Ser Gly Lys Thr
 100 105 110
 Trp Phe Val Glu Ala Lys Leu Lys Gln Gly Ile Glu Ser Ala Val Gln
 115 120 125
 Lys Lys Ile Val Lys Leu Ile Lys Asp Ser Lys Leu Lys Val Gln Ala
 130 135 140
 Gln Ile Gln Gly Glu Glu Ile Arg Val Thr Gly Lys Ser Arg Asp Asp
 145 150 155 160
 Leu Gln Ser Val Met Ala Leu Val Arg Gly Gly Asp Leu Gly Gln Pro
 165 170 175
 Phe Gln Phe Lys Asn Phe Arg Asp
 180 185

<210> 7592

<211> 154

<212> PRT

<213> *Enterobacter cloacae*

<400> 7592

Gln Gly His Arg Met His Cys Pro Phe Cys Ser Ala Val Asp Thr Lys
 1 5 10 15
 Val Ile Asp Ser Arg Leu Val Gly Glu Gly Ser Ser Val Arg Arg Arg
 20 25 30
 Arg Gln Cys Leu Val Cys Asn Glu Arg Phe Thr Thr Phe Glu Val Ala
 35 40 45
 Glu Leu Val Met Pro Arg Val Val Lys Ser Asn Asp Val Arg Glu Pro
 50 55 60
 Phe Asn Glu Glu Lys Leu Arg Ser Gly Met Leu Lys Ala Leu Glu Lys
 65 70 75 80
 Arg Pro Val Ser Ser Asp Asp Val Glu Met Ala Leu Asn His Ile Lys
 85 90 95
 Ser Tyr Leu Arg Gly Leu Gly Glu Arg Glu Val Pro Ser Lys Met Ile
 100 105 110
 Gly Asn Leu Val Met Glu Gln Leu Lys Lys Leu Asp Lys Val Ala Tyr
 115 120 125
 Ile Arg Phe Ala Ser Val Tyr Arg Ser Phe Glu Asp Ile Lys Glu Phe
 130 135 140
 Gly Glu Glu Ile Ala Arg Leu Gln Asp
 145 150

<210> 7593

<211> 325

<212> PRT

<213> *Enterobacter cloacae*

<400> 7593

Arg Met Ala Cys Gly Glu Phe Ser Leu Ile Ala Arg Tyr Phe Asp Arg
 1 5 10 15
 Val Arg Thr Ser Arg Leu Asp Val Glu Thr Gly Ile Gly Asp Asp Cys
 20 25 30
 Ala Leu Leu Asn Ile Pro Glu Lys Gln Thr Leu Ala Ile Ser Thr Asp
 35 40 45
 Thr Leu Val Cys Gly Arg His Phe Leu Pro Asp Ile Ser Pro Ala Asp
 50 55 60
 Leu Ala Tyr Lys Ala Leu Ala Val Asn Val Ser Asp Leu Ala Ala Met
 65 70 75 80
 Gly Ala Asp Pro Ala Trp Leu Thr Leu Ala Leu Thr Leu Pro Glu Val
 85 90 95
 Asp Glu Ala Trp Leu Glu Ala Phe Ser Asp Ala Leu Phe Glu Gln Leu
 100 105 110
 Asn Tyr Tyr Asp Met Gln Leu Ile Gly Gly Asp Thr Thr Ala Gly Pro
 115 120 125
 Leu Ser Met Thr Leu Ala Ile His Gly Tyr Val Pro Ala Gly Arg Ala
 130 135 140
 Leu Lys Arg Ser Gly Ala Lys Pro Gly Asp Trp Ile Tyr Val Thr Gly
 145 150 155 160
 Thr Pro Gly Asp Ser Ala Ala Gly Leu Ala Ile Leu Gln Asn Arg Leu
 165 170 175
 Thr Val Glu Asp Ala Asp Asp Ala Ala Tyr Leu Val Lys Arg His Leu
 180 185 190
 Arg Pro Thr Pro Arg Ile Leu His Gly Gln Ala Leu Arg Glu Arg Ala
 195 200 205
 Ser Ser Ala Ile Asp Leu Ser Asp Gly Leu Ile Ser Asp Leu Gly His
 210 215 220
 Ile Leu Lys Ala Ser Gly Val Gly Ala Arg Ile Asp Leu Asp Leu Phe
 225 230 235 240
 Pro Leu Ser Glu Pro Leu Arg Arg His Ala Glu Pro Glu Gln Ala Leu
 245 250 255
 Arg Trp Ala Leu Ser Gly Gly Glu Asp Tyr Glu Leu Cys Phe Thr Val
 260 265 270
 Pro Glu Leu Asn Arg Gly Thr Leu Asp Val Ala Leu Ala His Leu Gly
 275 280 285
 Ala Lys Phe Thr Cys Ile Gly Gln Val Met Pro Glu Ser Glu Gly Leu
 290 295 300
 Leu Phe Val Arg Asp Gly Ala Pro Val Thr Leu Asp Trp Lys Gly Tyr
 305 310 315 320
 Asp His Phe Ala

325

<210> 7594

<211> 491

<212> PRT

<213> *Enterobacter cloacae*

<400> 7594

Ala Cys Leu Arg Asn Ile Ala Ala Met Lys Phe Ile Ile Lys Leu Phe
 1 5 10 15
 Pro Glu Ile Thr Ile Lys Ser Gln Ser Val Arg Leu Arg Phe Ile Lys
 20 25 30
 Ile Leu Thr Gly Asn Ile Arg Asn Val Leu Lys His Tyr Asp Glu Thr
 35 40 45
 Leu Ala Val Val Arg His Trp Asp His Val Glu Val Arg Ala Lys Asp
 50 55 60

Glu Ser Lys Arg Leu Asp Ile Arg Asp Ala Leu Thr Arg Ile Pro Gly
 65 70 75 80
 Ile His His Ile Leu Glu Val Glu Asp Val Pro Phe Ser Asp Met His
 95
 Asp Ile Phe Glu Lys Ala Leu Val Gln Tyr Arg Asp Gln Ile Glu Gly
 100 105 110
 Lys Thr Phe Cys Val Arg Val Lys Arg Arg Gly Lys His Glu Phe Ser
 115 120 125
 Ser Ile Glu Val Glu Arg Tyr Val Gly Gly Gly Leu Asn Gln His Val
 130 135 140
 Glu Thr Ala Arg Val Arg Leu Thr Asn Pro Asp Val Thr Val Asn Leu
 145 150 155 160
 Glu Ile Glu Asn Asp Arg Leu Leu Leu Val Lys Gly Arg Tyr Glu Gly
 165 170 175
 Ile Gly Gly Phe Pro Ile Gly Thr Gln Glu Asp Val Leu Ser Leu Ile
 180 185 190
 Ser Gly Gly Phe Asp Ser Gly Val Ser Ser Tyr Met Leu Met Arg Arg
 195 200 205
 Gly Cys Arg Val His Tyr Cys Phe Phe Asn Leu Gly Gly Ala Ala His
 210 215 220
 Glu Ile Gly Val Arg Gln Val Ala His Tyr Leu Trp Asn Arg Phe Gly
 225 230 235 240
 Ser Ser His Arg Val Arg Phe Val Ala Ile Asn Phe Glu Pro Val Val
 245 250 255
 Gly Glu Ile Leu Glu Lys Val Asp Asp Gly Gln Met Gly Val Val Leu
 260 265 270
 Lys Arg Met Met Val Arg Ala Ala Ser Lys Val Ala Glu Arg Tyr Gly
 275 280 285
 Val Gln Ala Leu Val Thr Gly Glu Ala Leu Gly Gln Val Ser Ser Gln
 290 295 300
 Thr Leu Thr Asn Leu Arg Leu Ile Asp Asn Val Ser Asp Thr Leu Ile
 305 310 315 320
 Leu Arg Pro Leu Ile Ser His Asp Lys Glu His Ile Ile Asp Leu Ala
 325 330 335
 Arg Lys Ile Gly Thr Glu Asp Phe Ala Arg Thr Met Pro Glu Tyr Cys
 340 345 350
 Gly Val Ile Ser Lys Ser Pro Thr Ile Lys Ala Val Lys Ala Lys Ile
 355 360 365
 Glu Ala Glu Glu Glu Asn Phe Asp Phe Ser Ile Leu Glu Lys Val Val
 370 375 380
 Ala Glu Ala Ser Asn Ile Asp Ile Arg Glu Ile Ala Gln Gln Thr Glu
 385 390 395 400
 Gln Glu Val Val Glu Val Glu Thr Val Ser Gly Phe Gly Ala Asn Asp
 405 410 415
 Thr Ile Leu Asp Ile Arg Ser Val Asp Glu Gln Asp Asp Lys Pro Leu
 420 425 430
 Gln Val Glu Gly Val Glu Val Val Ser Leu Pro Phe Tyr Lys Leu Ser
 435 440 445
 Thr Gln Phe Gly Asp Leu Asp Gln Ser Lys Thr Tyr Leu Leu Trp Cys
 450 455 460
 Glu Arg Gly Val Met Ser Arg Leu Gln Ala Leu Tyr Leu Arg Glu Gln
 465 470 475 480
 Gly Phe Ala Asn Val Lys Val Tyr Arg Pro
 485 490

<210> 7595

<211> 720

<212> PRT

<213> Enterobacter cloacae

<400> 7595

Arg Ser Glu Arg Ile Leu Ala Thr Thr Thr Ala Glu Arg Val Ile Gln
 1 5 10 15
 Ala Thr Pro Asp Tyr His Ala Leu Asn Ala Met Leu Asn Leu Tyr Asp
 20 25 30
 Arg Glu Gly Arg Ile Gln Phe Asp Lys Asp Arg Glu Ala Val Asp Ala
 35 40 45
 Phe Phe Ala Ala His Val Arg Pro Asn Ser Ile Val Phe Gly Ser Gln
 50 55 60
 Gln Glu Arg Leu Asp Trp Leu Val Lys Glu Gly Tyr Tyr Glu Glu Arg
 65 70 75 80
 Val Leu Thr Arg Tyr Asp Arg Ala Phe Val Val Ala Leu Phe Glu Arg
 85 90 95
 Ala His Ala Ser Gly Phe Arg Phe Gln Thr Phe Leu Gly Ala Trp Lys
 100 105 110
 Tyr Tyr Thr Ser Tyr Thr Leu Lys Thr Phe Asp Gly Lys Arg Tyr Leu
 115 120 125
 Glu Ser Phe Glu Asp Arg Val Val Met Val Ala Leu Thr Leu Ala Gln
 130 135 140
 Gly Asp Glu Val Leu Ala Glu Ser Leu Thr Glu Glu Ile Leu Ser Gly
 145 150 155 160
 Arg Phe Gln Pro Ala Thr Pro Thr Phe Leu Asn Cys Gly Lys Ala Gln
 165 170 175
 Arg Gly Glu Leu Val Ser Cys Phe Leu Leu Arg Ile Glu Asp Asn Met
 180 185 190
 Glu Ser Ile Gly Arg Ala Val Asn Ser Ala Leu Gln Leu Ser Lys Arg
 195 200 205
 Gly Gly Gly Val Ala Phe Leu Leu Ser Asn Leu Arg Glu Ala Gly Ala
 210 215 220
 Pro Ile Lys Arg Ile Glu Asn Gln Ser Ser Gly Val Ile Pro Val Met
 225 230 235 240
 Lys Met Leu Glu Asp Ala Phe Ser Tyr Ala Asn Gln Leu Gly Ala Arg
 245 250 255
 Gln Gly Ala Gly Ala Val Tyr Leu His Ala His His Pro Asp Ile Leu
 260 265 270
 Arg Phe Leu Asp Thr Lys Arg Glu Asn Ala Asp Glu Lys Ile Arg Ile
 275 280 285
 Lys Thr Leu Ser Leu Gly Val Val Ile Pro Asp Ile Thr Phe Lys Leu
 290 295 300
 Ala Lys Glu Asn Ala Asp Met Ala Leu Phe Ser Pro Tyr Asp Val Glu
 305 310 315 320
 Arg Ile Tyr Gly Lys Ala Phe Gly Asp Val Ala Ile Ser Glu Leu Tyr
 325 330 335
 Asp Glu Leu Val Ala Asp Asp Arg Ile Arg Lys Lys Thr Ile Asn Ala
 340 345 350
 Arg Asp Phe Phe Gln Thr Leu Ala Glu Ile Gln Phe Glu Ser Gly Tyr
 355 360 365
 Pro Tyr Ile Met Tyr Glu Asp Thr Val Asn Arg Ala Asn Pro Ile Gly
 370 375 380
 Gly Arg Ile Asn Met Ser Asn Leu Cys Ser Glu Ile Leu Gln Val Asn
 385 390 395 400
 Ser Ala Ser Ser Tyr Asp Glu Asn Leu Asp Tyr Ala Asp Val Gly Lys
 405 410 415
 Asp Ile Ser Cys Asn Leu Gly Ser Leu Asn Ile Ala His Thr Met Asp
 420 425 430
 Ser Pro Asp Phe Gly Arg Thr Val Glu Thr Ala Ile Arg Gly Leu Thr
 435 440 445
 Ala Val Ser Asp Met Ser His Ile Arg Ser Val Pro Ser Ile Glu Ala
 450 455 460
 Gly Asn Ala Ala Ser His Ala Ile Gly Leu Gly Gln Met Asn Leu His
 465 470 475 480
 Gly Tyr Leu Ala Arg Glu Gly Ile Ala Tyr Gly Ser Pro Glu Gly Leu

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          485                      490                      495
Asp Phe Thr Asn Leu Tyr Phe Tyr Thr Val Thr Trp His Ala Val His
          500                      505                      510
Thr Ser Met Met Leu Ala Arg Glu Arg His Gln Arg Phe Ala Gly Phe
          515                      520                      525
Glu Gln Ser Arg Tyr Ala Ser Gly Glu Tyr Phe Ser Gln Tyr Leu Glu
          530                      535                      540
Gly Asp Trp Gln Pro Lys Thr Glu Lys Val Arg Ala Leu Phe Ala Arg
          545                      550                      555
Ala Gly Ile Thr Leu Pro Thr Arg Glu Met Trp Gln Gln Leu Arg Glu
          565                      570                      575
Glu Val Met Arg Tyr Gly Ile Tyr Asn Gln Asn Leu Gln Ala Val Pro
          580                      585                      590
Pro Thr Gly Ser Ile Ser Tyr Ile Asn His Ala Thr Ser Ser Ile His
          595                      600                      605
Pro Ile Val Ser Lys Ile Glu Ile Arg Lys Glu Gly Lys Thr Gly Arg
          610                      615                      620
Val Tyr Tyr Pro Ala Pro Phe Met Thr Asn Glu Asn Leu Ala Leu Tyr
          625                      630                      635
Gln Asp Ala Tyr Glu Ile Gly Pro Glu Lys Ile Ile Asp Thr Tyr Ala
          645                      650                      655
Glu Ala Thr Lys His Val Asp Gln Gly Leu Ser Leu Thr Leu Phe Phe
          660                      665                      670
Pro Asp Thr Ala Thr Thr Arg Asp Ile Asn Lys Ala Gln Ile Tyr Ala
          675                      680                      685
Trp Lys Lys Gly Ile Lys Thr Leu Tyr Tyr Ile Arg Leu Arg Gln Leu
          690                      695                      700
Ala Leu Glu Gly Thr Glu Ile Glu Gly Cys Val Ser Cys Ala Leu
          705                      710                      715                      720

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<210> 7596

<211> 323

<212> PRT

<213> Enterobacter cloacae

<400> 7596

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Gly Glu Trp Met Lys Leu Ser Arg Val Ser Ala Val Asn Trp Asn Lys
1          5          10          15
Ile Gln Asp Asp Lys Asp Leu Glu Val Trp Asn Arg Leu Thr Ser Asn
20          25          30
Phe Trp Leu Pro Glu Lys Val Pro Leu Ser Asn Asp Ile Pro Ala Trp
35          40          45
Gln Thr Leu Ser His Ala Glu Gln Gln Leu Thr Ile Arg Val Phe Thr
50          55          60
Gly Leu Thr Leu Leu Asp Thr Ile Gln Asn Thr Val Gly Ala Pro Ala
65          70          75          80
Leu Met Ser Asp Ala Leu Thr Pro His Glu Glu Ala Val Met Ser Asn
85          90          95
Ile Ser Phe Met Glu Ala Val His Ala Arg Ser Tyr Ser Ser Ile Phe
100          105          110
Ser Thr Leu Cys Gln Thr Arg Asp Val Asp Ala Ala Tyr Ala Trp Ser
115          120          125
Glu Glu Ser Ala Ser Leu Gln Arg Lys Ala Asp Leu Val Leu Glu Tyr
130          135          140
Tyr Arg Ala Asp Glu Pro Leu Lys Lys Lys Ile Ala Ser Val Phe Leu
145          150          155          160
Glu Ser Phe Leu Phe Tyr Ser Gly Phe Trp Leu Pro Met Tyr Trp Ser
165          170          175
Ser Arg Gly Lys Leu Thr Asn Thr Ala Asp Leu Ile Arg Leu Ile Ile
180          185          190
Arg Asp Glu Ala Val His Gly Tyr Tyr Ile Gly Tyr Lys Tyr Gln Lys

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195 200 205
 Gly Leu Glu Lys Val Ile Pro Glu Lys Arg Glu Glu Leu Lys Gly Phe
 210 215 220
 Ala Leu Asp Leu Leu Met Asp Leu Tyr Asp Asn Glu Leu Ser Tyr Thr
 225 230 235 240
 Glu Glu Leu Tyr Ala Gly Thr Gly Trp Glu Glu Asp Val Lys Ala Phe
 245 250 255
 Leu Cys Tyr Asn Ala Asn Lys Ala Leu Met Asn Leu Gly Tyr Glu Ala
 260 265 270
 Leu Phe Pro Pro Glu Met Ala Glu Val Asn Pro Ala Ile Leu Ala Ala
 275 280 285
 Leu Ser Pro Asn Ala Asp Glu Asn His Asp Phe Phe Ser Gly Ser Gly
 290 295 300
 Ser Ser Tyr Val Met Gly Lys Ala Val Glu Thr Gln Asp Glu Asp Trp
 305 310 315 320
 Asp Phe

<210> 7597

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 7597

Gln Asp Thr Leu Tyr Cys Met Ala Ile Lys Leu Glu Val Lys Asn Leu
 1 5 10 15
 Tyr Lys Val Phe Gly Glu His Pro Gln Arg Ala Phe Lys Tyr Ile Glu
 20 25 30
 Lys Gly Leu Ser Lys Glu Gln Ile Leu Glu Lys Thr Gly Leu Ser Leu
 35 40 45
 Gly Val Lys Asp Ala Ser Leu Ala Ile Glu Glu Gly Ile Phe Val
 50 55 60
 Ile Met Gly Leu Ser Gly Ser Gly Lys Ser Thr Met Val Arg Leu Leu
 65 70 75 80
 Asn Arg Leu Ile Glu Pro Thr Arg Gly Gln Val Leu Ile Asp Gly Val
 85 90 95
 Asp Ile Ala Arg Ile Ser Asp Ala Glu Leu Arg Glu Val Arg Arg Lys
 100 105 110
 Lys Ile Ala Met Val Phe Gln Ser Phe Ala Leu Met Pro His Met Thr
 115 120 125
 Val Leu Asp Asn Thr Ala Phe Gly Met Glu Leu Ala Gly Ile Pro Ala
 130 135 140
 Gln Glu Arg Gln Glu Lys Ala Leu Asp Ala Leu Arg Gln Val Gly Leu
 145 150 155
 Glu Asn Tyr Ala His Ala Tyr Pro Asp Glu Leu Ser Gly Gly Met Arg
 165 170 175
 Gln Arg Val Gly Leu Ala Arg Ala Leu Ala Ile Asn Pro Asp Ile Leu
 180 185 190
 Leu Met Asp Glu Ala Phe Ser Ala Leu Asp Pro Leu Ile Arg Thr Glu
 195 200 205
 Met Gln Asp Glu Leu Val Lys Leu Gln Ala Lys His Gln Arg Thr Ile
 210 215 220
 Val Phe Ile Ser His Asp Leu Asp Glu Ala Met Arg Ile Gly Asp Arg
 225 230 235 240
 Ile Ala Ile Met Gln Asn Gly Glu Val Val Gln Val Gly Thr Pro Asp
 245 250 255
 Glu Ile Leu Asn Asn Pro Ala Asn Asp Tyr Val Arg Thr Phe Phe Arg
 260 265 270
 Gly Val Asp Ile Ser His Val Phe Ser Ala Lys Asp Ile Ala Arg Arg
 275 280 285
 Thr Pro Asn Gly Ile Ile Arg Lys Thr Pro Gly Phe Gly Pro Arg Ser

290 295 300
 Ala Leu Lys Leu Leu Gln Asp Glu Asp Arg Glu Tyr Gly Tyr Leu Val
 305 310 315 320
 Glu Arg Gly Asn Lys Phe Val Gly Val Val Ser Ile Asp Ser Leu Lys
 325 330 335
 Thr Ala Leu Ser Glu Asn Gln Gly Ile Asp Ala Ala Leu Ile Asp Ala
 340 345 350
 Pro Leu Ala Val Asp Ala Glu Thr Pro Leu Ser Glu Leu Leu Ser His
 355 360 365
 Val Gly Gln Ala Pro Cys Ala Val Pro Val Val Gly Glu Glu Gln Gln
 370 375 380
 Tyr Val Gly Ile Ile Ser Lys Arg Met Leu Leu Gln Ala Leu Asp Arg
 385 390 395 400
 Glu Gly Thr Asn Asn Gly
 405

<210> 7598

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7598

Ser Leu Asn Ser Arg Phe Leu Lys Leu Met Thr Lys Thr Thr Gln Gly
 1 5 10 15
 Leu Ser Pro Ala Leu Ile Leu Leu Met Ser Val Ala Thr Gly Leu Ala
 20 25 30
 Val Ala Ser Asn Tyr Tyr Ala Gln Pro Leu Leu Asp Thr Ile Ala Arg
 35 40 45
 Ala Phe Asp Leu Ser Ala Ser Ser Ala Gly Phe Ile Val Thr Ala Ala
 50 55 60
 Gln Leu Gly Tyr Ala Ala Gly Leu Leu Phe Leu Val Pro Leu Gly Asp
 65 70 75 80
 Met Phe Glu Arg Arg Met Leu Ile Val Ser Met Thr Leu Leu Ala Ala
 85 90 95
 Gly Gly Met Leu Ile Thr Ala Ser Ser Gln Ser Leu Thr Met Met Ile
 100 105 110
 Ile Gly Thr Ala Leu Thr Gly Leu Phe Ser Val Val Ala Gln Ile Leu
 115 120 125
 Val Pro Leu Ala Ala Thr Leu Ala Ser Pro Glu Lys Arg Gly Lys Val
 130 135 140
 Val Gly Thr Ile Met Ser Gly Leu Leu Leu Gly Ile Leu Leu Ala Arg
 145 150 155 160
 Thr Val Ala Gly Leu Leu Ala Ser Leu Gly Gly Trp Arg Thr Val Tyr
 165 170 175
 Trp Val Ala Ser Val Leu Met Leu Ile Met Ala Leu Ala Leu Trp Arg
 180 185 190
 Gly Leu Pro Lys Val Lys Gln Glu Asn His Leu Asn Tyr Pro Gln Leu
 195 200 205
 Leu Ala Ser Val Phe Ser Leu Phe Thr Arg Asp Lys Leu Leu Arg Thr
 210 215 220
 Arg Ala Ile Leu Gly Cys Leu Thr Phe Ala Asn Phe Ser Ile Leu Trp
 225 230 235 240
 Thr Ser Met Ala Phe Leu Leu Ala Ala Pro Phe Asn Tyr Ser Glu
 245 250 255
 Gly Val Ile Gly Leu Phe Gly Leu Ala Gly Ala Ala Gly Ala Leu Gly
 260 265 270
 Ala Arg Pro Ala Gly Gly Leu Ala Asp Lys Gly Lys Ser His Met Thr
 275 280 285
 Thr Ser Ala Gly Leu Val Leu Leu Leu Leu Ser Trp Ala Ala Ile Trp
 290 295 300
 Tyr Gly His Val Ser Val Leu Ala Leu Ile Val Gly Ile Leu Val Leu

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305          310          315          320
Asp Leu Thr Val Gln Gly Val His Ile Thr Asn Gln Thr Val Ile Tyr
          325          330          335
Arg Met Lys Pro Asp Ala Arg Asn Arg Leu Thr Ala Gly Tyr Met Thr
          340          345          350
Ser Tyr Phe Ile Gly Gly Ala Ala Gly Ser Leu Ile Ser Ala Ser Ala
          355          360          365
Trp Gln His Ala Gly Trp Thr Gly Val Cys Ala Ile Gly Ala Ile Val
          370          375          380
Ala Ala Ile Asn Leu Leu Val Trp Trp Arg Gly Tyr His Arg Gln Glu
385          390          395          400
Ala Ile His

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<210> 7599

<211> 408

<212> PRT

<213> Enterobacter cloacae

<400> 7599

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Gln Gln Val Gly Ser Ala Asp Val Lys Ile Lys Arg Ser Trp Arg Thr
1          5          10          15
Thr Met Ser Ala Asn Ala Glu Asn Thr Pro Pro Gln Gln Pro Val Asn
          20          25          30
Lys Lys Gly Lys Arg Lys Ser Ala Leu Ile Leu Leu Thr Leu Leu Phe
          35          40          45
Ile Ile Ile Ala Val Ala Tyr Gly Ile Tyr Trp Phe Leu Val Leu Arg
          50          55          60
His Val Glu Glu Thr Asp Asp Ala Tyr Val Ala Gly Asn Gln Val Gln
65          70          75          80
Ile Met Ala Gln Val Ser Gly Ser Val Thr Lys Val Trp Ala Asp Asn
          85          90          95
Thr Asp Phe Val Lys Lys Ser Asp Val Leu Val Thr Leu Asp Pro Thr
          100          105          110
Asp Ala Gln Gln Ala Phe Glu Lys Ala Gln Thr Ala Leu Ala Ser Ser
          115          120          125
Val Arg Gln Thr Arg Gln Leu Met Ile Asn Ser Lys Gln Leu Gln Ala
          130          135          140
Asn Ile Asp Val Gln Lys Thr Ala Leu Ala Gln Ala Gln Ser Asp Leu
145          150          155          160
Asn Arg Arg Val Pro Leu Gly Thr Ala Asn Leu Ile Gly Arg Glu Glu
          165          170          175
Leu Gln His Ala Arg Asp Ala Val Ala Ser Ala Gln Ala Gln Leu Asp
          180          185          190
Val Ala Ile Gln Gln Tyr Asn Ala Asn Gln Ala Met Val Leu Gly Thr
          195          200          205
Ser Leu Glu Asn Gln Pro Ala Val Lys Gln Ala Ala Thr Glu Val Arg
          210          215          220
Asn Ala Trp Leu Ala Leu Gln Arg Thr Lys Ile Val Ser Pro Met Thr
225          230          235          240
Gly Tyr Val Ser Arg Arg Ser Val Gln Pro Gly Ala Gln Ile Ser Thr
          245          250          255
Thr Thr Pro Leu Met Ala Val Val Pro Ala Asn Asn Leu Trp Val Asp
          260          265          270
Ala Asn Phe Lys Glu Thr Gln Leu Ala His Met Arg Ile Gly Gln Thr
          275          280          285
Ala Thr Val Val Ser Asp Ile Tyr Gly Asp Asp Ile Lys Tyr Thr Gly
290          295          300
Lys Val Val Gly Leu Asp Met Gly Thr Gly Ser Ala Phe Ser Leu Leu
305          310          315          320
Pro Ala Gln Asn Ala Thr Gly Asn Trp Ile Lys Val Val Gln Arg Leu

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          325          330          335
Pro Val Arg Ile Glu Leu Asp Pro Lys Gln Leu Ala Asp His Pro Leu
          340          345          350
Arg Ile Gly Leu Ser Thr Leu Val Thr Val Asp Thr Ala Asn Arg Asp
          355          360          365
Gly Gln Ile Leu Ala Ser Gln Val Arg Ser Thr Pro Ala Tyr Glu Ser
          370          375          380
Asn Ala Arg Glu Ile Ser Leu Asp Pro Val Asn Lys Leu Ile Asp Asp
          385          390          395          400
Ile Val Lys Ala Asn Ala Gly
          405

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<210> 7600

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 7600

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Asn Ala Thr Phe Leu Ser Cys Ser Arg Ser Ser Asp Met Phe Ser Pro
1          5          10          15
Gln Ser Arg Leu Arg His Ala Val Ala Asp Thr Phe Ala Met Val Val
          20          25          30
Tyr Cys Ser Val Val Asn Met Leu Ile Glu Ile Phe Leu Ser Gly Met
          35          40          45
Ser Phe Glu Gln Ser Leu Ser Ser Arg Leu Val Ala Ile Pro Val Asn
          50          55          60
Ile Met Ile Ala Trp Pro Tyr Gly Leu Tyr Arg Asp Ala Val Met Arg
          65          70          75          80
Leu Ala Arg Arg Ile Ser Pro Ala Gly Trp Val Lys Asn Leu Ala Asp
          85          90          95
Val Leu Ala Tyr Val Thr Phe Gln Ser Pro Val Tyr Val Phe Ile Leu
          100          105          110
Leu Thr Val Gly Ala Asp Trp His Gln Ile Ala Ala Val Ser Ser
          115          120          125
Asn Ile Val Val Ser Met Leu Met Gly Ala Val Tyr Gly Tyr Phe Leu
          130          135          140
Asp Tyr Cys Arg Arg Leu Phe Lys Val Ser Pro Tyr Ser Gln Ala Lys
          145          150          155          160
Ala

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<210> 7601

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 7601

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Ser Gly Ala Arg Arg Gly Arg His Pro Ala Gly Ala Gly Phe Pro Ser
1          5          10          15
Ala Ser Gly Cys Gly Cys Arg Arg His Gln Leu Val Trp Leu Pro Ser
          20          25          30
Gly His Asp Gln Pro Pro Cys Arg Ser Gly Arg Gln Cys Met Ser Thr
          35          40          45
Leu Val Tyr Phe Ser Ser Ser Ser Glu Asn Thr Leu Arg Phe Met Glu
          50          55          60
Arg Leu Gly Leu Pro Ala Ile Arg Ile Pro Leu Asn Glu Arg Glu Arg
          65          70          75          80
Ile Gln Val Asp Glu Pro Tyr Ile Leu Val Val Pro Ser Tyr Gly Gly
          85          90          95
Gly Gly Thr Ala Gly Ala Val Pro Arg Gln Val Ile Arg Phe Leu Asn
          100          105          110

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Asp Pro His Asn Arg Gln Leu Ile Arg Gly Val Ile Ala Ala Gly Asn
 115 120 125
 Arg Asn Phe Gly Glu Ala Phe Ala Arg Ala Gly Asp Val Ile Ser Gln
 130 135 140
 Lys Cys Gly Val Pro Tyr Leu Tyr Arg Phe Glu Leu Met Gly Thr Gln
 145 150 155 160
 Gln Asp Val Glu Asn Val Arg Lys Gly Val Asn Glu Phe Trp Gln Arg
 165 170 175
 Gln Pro Gln Ser Ala
 180

<210> 7602

<211> 361

<212> PRT

<213> Enterobacter cloacae

<400> 7602

Ile Ala Arg Gly Gln Thr Met Ala Asp Gln Ser Asn Pro Trp Gly Thr
 1 5 10 15
 Thr Glu Ala Ala Asp Ser Ala Ala Gln Ser Ala Asp Ala Trp Gly Ser
 20 25 30
 Thr Pro Ala Pro Ala Asp Gly Gly Gly Ala Ala Asp Trp Leu Asn Ser
 35 40 45
 Ala Pro Ala Pro Ala Pro Glu His Phe Asn Ile Met Asp Pro Phe His
 50 55 60
 Lys Thr Leu Ile Pro Leu Asp Ser Trp Val Thr Glu Gly Ile Asp Trp
 65 70 75 80
 Val Val Thr His Phe Arg Pro Val Phe Gln Gly Ile Arg Ile Pro Val
 85 90 95
 Asp Tyr Ile Leu Asn Gly Phe Gln Gln Leu Met Leu Gly Met Pro Ala
 100 105 110
 Pro Val Ala Ile Ile Leu Phe Ser Leu Ile Ala Trp Gln Phe Gly Ser
 115 120 125
 Ala Gly Met Gly Ile Ala Thr Leu Ile Ser Leu Ile Ala Ile Gly Ala
 130 135 140
 Ile Gly Ala Trp Ser Gln Ala Met Ile Thr Leu Ala Leu Val Leu Thr
 145 150 155 160
 Ala Leu Leu Phe Cys Val Val Ile Gly Leu Pro Met Gly Ile Trp Leu
 165 170 175
 Ala Arg Ser Pro Arg Ala Ala Lys Ile Ile Arg Pro Leu Leu Asp Ala
 180 185 190
 Met Gln Thr Thr Pro Ala Phe Val Tyr Leu Val Pro Ile Val Met Leu
 195 200 205
 Phe Gly Ile Gly Asn Val Pro Gly Val Val Val Thr Ile Ile Phe Ala
 210 215 220
 Leu Pro Pro Ile Ile Arg Leu Thr Ile Leu Gly Ile Asn Gln Val Pro
 225 230 235 240
 Ala Asp Leu Ile Glu Ala Ser Arg Ser Phe Gly Ala Ser Pro Arg Gln
 245 250 255
 Met Leu Phe Lys Val Gln Leu Pro Leu Ala Met Pro Thr Ile Met Ala
 260 265 270
 Gly Val Asn Gln Thr Leu Met Leu Ala Leu Ser Met Val Val Ile Ala
 275 280 285
 Ser Met Ile Ala Val Gly Gly Leu Gly Gln Met Val Leu Arg Gly Ile
 290 295 300
 Gly Arg Leu Asp Met Gly Leu Ala Thr Val Gly Gly Val Gly Ile Val
 305 310 315 320
 Ile Leu Ala Ile Ile Leu Asp Arg Leu Thr Gln Ala Val Gly Arg Asp
 325 330 335
 Ser Arg Ser Arg Gly Asn Arg Arg Trp Tyr Thr Thr Gly Pro Val Gly
 340 345 350

Leu Leu Thr Arg Pro Phe Thr Lys
355 360

<210> 7603

<211> 335

<212> PRT

<213> *Enterobacter cloacae*

<400> 7603

Gly Thr Thr Met Arg His Asn Val Leu Phe Ala Thr Ala Phe Ala Thr
1 5 10 15
Leu Val Ser Thr Ser Ala Val Ala Ala Asp Leu Pro Gly Lys Gly Ile
20 25 30
Thr Val Gln Pro Val Gln Ser Thr Ile Ser Glu Glu Ser Phe Gln Thr
35 40 45
Gln Ile Val Ser Arg Ala Leu Glu Lys Leu Gly Tyr Thr Val Asn Thr
50 55 60
Ala Ser Glu Val Asp Tyr Asn Val Gly Tyr Thr Ser Ile Ala Ser Gly
65 70 75 80
Asp Ala Thr Phe Thr Ala Val Asn Trp Gln Pro Leu His Asp Asp Met
85 90 95
Tyr Ala Ala Ala Gly Gly Asp Lys Lys Phe Tyr Arg Glu Gly Thr Phe
100 105 110
Val Thr Gly Ala Ala Gln Gly Tyr Leu Ile Asp Lys Lys Thr Ala Asp
115 120 125
Lys Tyr His Ile Thr Asn Ile Glu Gln Leu Lys Asp Pro Lys Ile Ala
130 135 140
Lys Leu Phe Asp Thr Asn Gly Asp Gly Lys Ala Asp Met Met Gly Cys
145 150 155 160
Ser Pro Gly Trp Gly Cys Glu Ala Val Ile Asn His Gln Asn Lys Ala
165 170 175
Phe Asp Leu Ala Lys Thr Val Asp Val Ser His Gly Asn Tyr Ser Ala
180 185 190
Met Met Ala Asp Thr Ile Ala Arg Phe Lys Glu Gly Lys Pro Val Ile
195 200 205
Tyr Tyr Thr Trp Thr Pro Tyr Trp Val Ser Asp Val Leu Lys Pro Gly
210 215 220
Lys Asp Val Val Trp Leu Gln Val Pro Phe Ser Ser Leu Pro Gly Glu
225 230 235 240
Gln Lys Asp Ile Asp Thr Lys Leu Pro Asn Gly Met Asn Tyr Gly Phe
245 250 255
Pro Val Asn Thr Met His Ile Val Ala Asn Lys Ala Trp Ala Glu Lys
260 265 270
Asn Pro Ala Ala Ala Lys Leu Phe Ser Val Met Lys Leu Pro Leu Ala
275 280 285
Asp Ile Asn Ala Gln Asn Ala Met Met His Ala Gly Lys Ser Ser Glu
290 295 300
Ala Asp Ile Lys Gly His Val Asp Gly Trp Ile Lys Ala His Gln Gln
305 310 315 320
Gln Phe Asp Gly Trp Val Lys Glu Ala Leu Glu Ala Gln Lys
325 330 335

<210> 7604

<211> 527

<212> PRT

<213> *Enterobacter cloacae*

<400> 7604

Arg Gln Thr Pro Val Lys Pro Lys Val Ser Val Met Gln Gln Gln Lys
1 5 10 15
Pro Gln Lys Pro Leu Glu Gly Ala Gln Leu Val Ile Met Thr Ile Ala

				20					25					30	
Leu	Ser	Leu	Ala	Thr	Phe	Met	Gln	Val	Leu	Asp	Ser	Thr	Ile	Ala	Asn
		35					40					45			
Val	Ala	Ile	Pro	Thr	Ile	Ala	Gly	Asn	Leu	Gly	Ser	Ser	Leu	Ser	Gln
		50				55					60				
Gly	Thr	Trp	Val	Ile	Thr	Ser	Phe	Gly	Val	Ala	Asn	Ala	Ile	Ser	Ile
65					70				75					80	
Pro	Ile	Thr	Gly	Trp	Leu	Ala	Lys	Arg	Val	Gly	Glu	Val	Lys	Leu	Phe
				85					90				95		
Leu	Trp	Ser	Thr	Ile	Leu	Phe	Val	Leu	Ala	Ser	Trp	Ala	Cys	Gly	Met
			100				105					110			
Ser	Ser	Ser	Leu	Thr	Met	Leu	Ile	Phe	Phe	Arg	Val	Ile	Gln	Gly	Ile
		115					120					125			
Val	Ala	Gly	Pro	Leu	Ile	Pro	Leu	Ser	Gln	Ser	Leu	Leu	Leu	Asn	Asn
		130				135					140				
Tyr	Pro	Pro	Ala	Lys	Arg	Ser	Ile	Ala	Leu	Ala	Leu	Trp	Ser	Met	Thr
145				150					155					160	
Val	Ile	Val	Ala	Pro	Ile	Cys	Gly	Pro	Ile	Leu	Gly	Gly	Tyr	Ile	Ser
			165					170					175		
Asp	Asn	Tyr	His	Trp	Gly	Trp	Ile	Phe	Phe	Ile	Asn	Val	Pro	Ile	Gly
			180					185				190			
Ala	Leu	Val	Val	Leu	Met	Thr	Leu	Gln	Ser	Leu	Arg	Gly	Arg	Glu	Thr
		195					200				205				
Arg	Thr	Glu	Gln	Arg	Arg	Ile	Asp	Gly	Ile	Gly	Leu	Ala	Leu	Leu	Val
		210				215					220				
Val	Gly	Ile	Gly	Ser	Leu	Gln	Ile	Met	Leu	Asp	Arg	Gly	Lys	Glu	Leu
225				230					235					240	
Asp	Trp	Phe	Ala	Ser	Thr	Glu	Ile	Ile	Val	Leu	Thr	Val	Val	Ala	Val
			245					250					255		
Val	Ala	Ile	Ser	Phe	Leu	Ile	Val	Trp	Glu	Leu	Thr	Asp	Asp	Asn	Pro
		260					265					270			
Ile	Val	Asp	Leu	Ser	Leu	Phe	Lys	Ser	Arg	Asn	Phe	Thr	Ile	Gly	Cys
		275					280					285			
Leu	Cys	Ile	Ser	Leu	Ala	Tyr	Met	Leu	Tyr	Phe	Gly	Ala	Ile	Val	Leu
		290				295					300				
Leu	Pro	Gln	Leu	Leu	Gln	Glu	Val	Tyr	Gly	Tyr	Thr	Ala	Thr	Trp	Ala
		305			310					315				320	
Gly	Leu	Ala	Ser	Ala	Pro	Val	Gly	Leu	Ile	Pro	Val	Leu	Leu	Ser	Pro
			325					330					335		
Ile	Ile	Gly	Arg	Phe	Ala	His	Lys	Leu	Asp	Met	Arg	Arg	Leu	Val	Thr
			340				345					350			
Phe	Ser	Phe	Ile	Met	Tyr	Ala	Val	Cys	Phe	Tyr	Trp	Arg	Ala	Tyr	Thr
		355				360						365			
Phe	Glu	Pro	Gly	Met	Asp	Phe	Gly	Ala	Ser	Ala	Trp	Pro	Gln	Phe	Ile
		370				375					380				
Gln	Gly	Phe	Ala	Val	Ala	Cys	Phe	Phe	Met	Pro	Leu	Thr	Thr	Ile	Thr
385				390					395					400	
Leu	Ser	Gly	Leu	Pro	Pro	Glu	Arg	Met	Ala	Ala	Ala	Ser	Ser	Leu	Ser
			405					410					415		
Asn	Phe	Thr	Arg	Thr	Leu	Ala	Gly	Ser	Ile	Gly	Thr	Ser	Ile	Thr	Thr
			420				425					430			
Thr	Leu	Trp	Thr	Asn	Arg	Glu	Ser	Met	His	His	Ala	Gln	Leu	Thr	Glu
		435				440						445			
Ala	Val	Asn	Pro	Phe	Asn	Pro	Asn	Ala	Gln	Gln	Met	Tyr	Ser	Gln	Leu
		450				455					460				
Glu	Gly	Met	Gly	Met	Thr	Glu	Gln	Gln	Ala	Ser	Gly	Trp	Leu	Ala	Gln
465				470					475					480	
Gln	Ile	Thr	Asn	Gln	Gly	Leu	Ile	Ile	Ser	Ala	Asn	Glu	Ile	Phe	Trp
			485				490					495			
Ile	Ser	Ala	Gly	Ile	Phe	Ile	Val	Leu	Leu	Gly	Leu	Val	Trp	Phe	Ala
		500					505					510			

Lys Pro Pro Phe Gly Ala Gly Ser Gly Gly Gly Ala His
 515 520 525

<210> 7605

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 7605

Thr Gly Thr Gln Ile Met Glu Asp Arg Met Phe Asn Arg Pro Asn Arg
 1 5 10 15
 Asn Asp Ile Asn Asp Asp Thr Gln Asp Ile Arg Asn Asp Val Ser Gln
 20 25 30
 Leu Ala Asp Thr Leu Glu Ala Val Leu Lys Ser Trp Gly Ser Asp Ala
 35 40 45
 Lys Asp Glu Ala Asp Ala Ala Lys Arg Lys Ala Gln Ser Leu Leu Arg
 50 55 60
 Glu Thr Arg Ala Arg Met Asn Gly Arg Ser Arg Thr Thr Gln Ala Ala
 65 70 75 80
 Cys Asp Met Ala Ser Cys Ala Thr Thr Phe Val Arg Glu Lys Pro Leu
 85 90 95
 Cys Thr Leu Gly Thr Val Ala Ala Val Gly Ile Phe Val Gly Ala Leu
 100 105 110
 Leu Ser Leu Arg Lys
 115

<210> 7606

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 7606

Met Glu Met Arg Ile Met Ser Ile Ile Ile Tyr Thr Arg Asn Asp Cys
 1 5 10 15
 Val Gln Cys His Ala Thr Lys Arg Ala Met Glu Ser Arg Gly Val Ala
 20 25 30
 Phe Glu Met Val Asn Ile Asp Gln Val Pro Asp Ala Ala Asp Thr Leu
 35 40 45
 Arg Ala Gln Gly Phe Arg Gln Leu Pro Val Val Val Ala Gly Asp Thr
 50 55 60
 Ser Trp Ser Gly Phe Arg Pro Asp Met Ile Asn Arg Leu Ala Ala Gln
 65 70 75 80
 Gly Val Ser Ala
 85

<210> 7607

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 7607

His Thr Phe Gly Gly Tyr Asn Arg Thr Asn Asn Ser Phe Thr Leu Phe
 1 5 10 15
 Val Thr Val Val Thr Ile Ser Ala Val Ile Asn Glu Val Met Pro Lys
 20 25 30
 Met Asp Ser Ser Phe Thr Pro Ile Glu Gln Met Leu Lys Phe Arg Ala
 35 40 45
 Ser Arg His Glu Asp Phe Pro Tyr Gln Glu Ile Leu Leu Thr Arg Leu
 50 55 60
 Cys Met His Met Gln Gly Lys Leu Leu Glu Asn Arg Asn Lys Met Leu
 65 70 75 80

```

Lys Ala Gln Gly Ile Asn Glu Thr Leu Phe Met Ala Leu Ile Thr Leu
      85          90
Glu Ser Gln Glu Asn His Ser Ile Gln Pro Ser Glu Leu Ser Cys Ala
      100         105
Leu Gly Ser Ser Arg Thr Asn Ala Thr Arg Ile Ala Asp Glu Leu Glu
      115         120
Lys Arg Gly Trp Ile Glu Arg Arg Glu Ser Asp Asn Asp Arg Arg Cys
      130         135
Leu His Leu Gln Leu Thr Glu Lys Gly His Glu Phe Leu Arg Glu Val
      145         150
Leu Pro Pro Gln His Asn Cys Leu His Gln Leu Trp Ser Ala Leu Ser
      165         170
Thr Ala Glu Arg Asp Gln Leu Glu His Ile Thr Arg Lys Leu Leu Thr
      180         185
Arg Leu Asp Gln Met Asp Glu Asp Gly Val Ile Leu Glu Ala Leu Arg
      195         200

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<210> 7608

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 7608

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Asn Arg Phe Thr Ile Val Lys Arg Gln Gln Glu Arg Thr Met Leu Asn
1          5          10          15
Thr Pro Ala Asp Lys Tyr Gln Pro Tyr Pro Thr Leu Ser Leu Pro Asp
      20          25          30
Arg Arg Trp Pro Glu Gln Ile Ile Thr Cys Ala Pro Arg Trp Leu Ser
      35          40          45
Thr Asp Leu Arg Asp Gly Asn Gln Ala Leu Ala Glu Pro Met Asp Ser
      50          55          60
Ala Arg Lys Leu Gln Phe Trp Asp Leu Leu Leu Thr Cys Gly Phe Lys
      65          70          75
Glu Ile Glu Val Ala Phe Pro Ser Ala Ser Gln Thr Asp Phe Asn Phe
      85          90          95
Val Arg Gln Leu Ile Glu Glu Asn Arg Ile Pro Asp Asp Val Thr Ile
      100         105         110
Gln Val Leu Thr Gln Ala Arg Asp Asp Leu Ile His Arg Thr Phe Asp
      115         120         125
Ser Leu Arg Gly Ala Lys Gln Ala Thr Val His Leu Tyr Asn Ala Thr
      130         135         140
Ala Pro Leu Phe Arg Arg Leu Val Phe Gly Met Glu Lys Ala Gln Ile
      145         150         155
Val Glu Leu Ala Thr Arg Ala Thr Arg Leu Ile Arg Gln Leu Cys Glu
      165         170         175
Glu Asn Pro Asp Thr Arg Trp Gln Tyr Glu Tyr Ser Pro Glu Thr Phe
      180         185         190
Cys Phe Thr Glu Pro Glu Phe Ala Leu Glu Ile Cys Glu Ala Val Ala
      195         200         205
Glu Ile Trp Gln Pro Cys Ala Ala Arg Pro Met Ile Val Asn Leu Pro
      210         215         220
Ala Thr Val Glu Val Ser Thr Pro Asn Val Tyr Ala Asp Gln Ile Glu
      225         230         235
Tyr Phe Cys Arg His Phe Ser Arg Arg Ser Asp Val Cys Ile Ser Val
      245         250         255
His Pro His Asn Asp Arg Gly Thr Gly Val Ala Ser Ala Glu Leu Ala
      260         265         270
Val Met Ala Gly Ala Asp Arg Val Glu Gly Cys Leu Phe Gly Asn Gly
      275         280         285

```

Glu Arg Thr Gly Asn Val Cys Leu Val Thr Leu Ala Met Asn Leu Tyr
 290 295 300
 Ser Gln Gly Ile Ser Pro Asn Leu Asp Phe Ser Asp Met Asn Arg Val
 305 310 315 320
 Val Glu Thr Val Glu Thr Cys Asn Gln Leu Pro Val His Pro Arg His
 325 330 335
 Pro Trp Ala Gly Arg Leu Ala Tyr Thr Ala Phe Ser Gly Ser His Gln
 340 345 350
 Asp Ala Ile Lys Lys Gly Phe Asp Ala Arg Lys Pro Gly Glu Arg Trp
 355 360 365
 Glu Met Pro Tyr Leu Pro Val Asp Pro Gln Asp Ile Gly Cys Thr Tyr
 370 375 380
 Glu Ala Val Ile Arg Val Asn Ser Gln Ser Gly Lys Ser Gly Ser Ala
 385 390 395 400
 Trp Leu Ile Glu Gln Asn His Gly Leu Lys Leu Pro Arg Ala Leu Gln
 405 410 415
 Gln Asp Phe Ser Gln His Val Gln Gln Glu Thr Asp Asn His Gly Lys
 420 425 430
 Glu Met Thr Gln Asn Ala Leu Trp Gln Leu Phe Arg Ala Arg Tyr Gly
 435 440 445
 Leu Val Ala Ser Pro Pro Leu Ala Leu Gln Ser Tyr Arg Ser Asp Ser
 450 455 460
 Gln Gln Asp Gly Gln Leu Arg Leu Thr Ala Ser Val Ala Thr His Gly
 465 470 475 480
 Gly Thr Arg Gln Leu Glu Gly Gln Gly Asn Gly Leu Leu Ser Ala Ala
 485 490 495
 Ala His Gly Leu Ser Arg Trp Ile Asn Ala Ser Phe Val Ile Lys Asp
 500 505 510
 Tyr His Glu His Thr Leu Gly Glu Arg Ser Asp Ser Arg Ser Val Ala
 515 520 525
 Tyr Ile Arg Cys Leu Phe Gln Asp Gly Thr Ser Arg Trp Gly Val Gly
 530 535 540
 Ile Asp Ser Asp Val Ala Arg Ala Ser Ile Gln Ala Leu Phe Asn Ala
 545 550 555 560
 Val Ser Arg Ser
 565

<210> 7609

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 7609

Ser Phe Ser Glu Ser Thr Met Tyr Ala Gln Tyr Asp Gly Leu Ile Phe
 1 5 10 15
 Asp Met Asp Gly Thr Leu Leu Asp Thr Glu Pro Thr His Arg Gln Ala
 20 25 30
 Trp Thr Glu Val Leu Gly Arg Tyr Gly Met Arg Phe Asp Leu Gln Ala
 35 40 45
 Met Ile Ala Leu Asn Gly Ser Pro Thr Trp Arg Ile Ala Gln Ala Val
 50 55 60
 Ile Glu Leu Asn Gln Ala Asp Leu Asp Pro His Gln Leu Ala Arg Glu
 65 70 75 80
 Lys Thr Asp Ala Val Lys Ala Met Leu Leu Asp Thr Val Gln Pro Leu
 85 90 95
 Pro Leu Ile Asp Val Val Lys Glu Trp His Gly Arg Arg Pro Met Ser
 100 105 110
 Val Gly Thr Gly Ser Glu Ser Ala Ile Ala Glu Ala Leu Leu Asn His
 115 120 125
 Leu Gly Pro Ala Pro Leu Phe Phe Cys Arg Arg Cys Arg Arg Ser Cys
 130 135 140

145

<210> 7610

<211> 154

<212> PRT

<213> *Enterobacter cloacae*

<400> 7610

Cys Arg Asn Gly Gly Gly Arg Ser Leu Thr Val Ser Asp Ala Leu
 1 5 10 15
 Ser Leu Ala Ser Leu Phe Ala Ser Ser Phe Leu Ser Ser Thr Leu Leu
 20 25 30
 Pro Gly Asn Ser Glu Val Val Leu Val Ala Met Leu Leu Ser Gly Val
 35 40 45
 Ser Gln Pro Trp Leu Leu Val Leu Ile Ala Thr Met Gly Asn Ser Leu
 50 55 60
 Gly Gly Leu Thr Asn Val Ile Leu Gly Arg Phe Phe Pro Leu Arg Glu
 65 70 75 80
 Lys Ser Arg Trp Gln Glu Lys Ala Val Gly Trp Leu Lys Arg Tyr Gly
 85 90 95
 Ala Ala Thr Leu Leu Ser Trp Met Pro Val Ile Gly Asp Leu Leu
 100 105 110
 Cys Leu Leu Ala Gly Trp Met Arg Ile Ser Trp Gly Pro Val Leu Phe
 115 120 125
 Phe Leu Cys Leu Gly Lys Ala Leu Arg Tyr Val Leu Leu Ala Trp Val
 130 135 140
 Thr Leu Gln Gly Ile Thr Trp Trp His
 145 150

<210> 7611

<211> 295

<212> PRT

<213> *Enterobacter cloacae*

<400> 7611

Cys Ser Cys Lys Gln Gln Arg Arg Ala Gly Pro Ala Lys Arg Lys Thr
 1 5 10 15
 Ser Gly Thr Ala His Leu Val Ser Cys Leu Trp Met Pro Gly Gly Ala
 20 25 30
 Ser Leu Thr Gly Pro Thr Ile Leu Met Thr Thr Thr Thr Thr Phe Ser
 35 40 45
 Phe Thr His Arg Pro Leu Val Pro Phe Ser His Asp Tyr Ala His Gly
 50 55 60
 Asp Ser Glu Pro Trp His Gln His Asp Cys Ala Gln Leu Leu His Ser
 65 70 75 80
 Leu Thr Gly Val Val Arg Val Asp Thr Ala Ser Gly Cys Trp Val Val
 85 90 95
 Pro Pro Gly Arg Gly Val Trp Leu Pro Ala Gly Thr Gln His Ala Leu
 100 105 110
 Arg Ile Thr Gly Asn Val Ala Ala Arg Thr Leu Phe Ile Asp Pro Leu
 115 120 125
 Ala Arg Ala Asp Leu Pro Ala Thr Cys Gln Ile Val Gln Ile Ser Pro
 130 135 140
 Leu Leu Arg Glu Leu Ile Leu Thr Ser Leu Thr Leu Pro Glu Ser Tyr
 145 150 155 160
 Ala Pro Gly Ser Arg Asp Glu Arg Val Tyr Glu Leu Ile Leu Asp Glu
 165 170 175
 Ile Arg Leu Met Pro Val Leu Pro Phe His Leu Pro Glu Pro Glu Ser
 180 185 190
 Glu Ala Leu Arg His Leu Cys Gln Gln Ile Arg Met Ala Pro Gly Glu

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      195                200                205
Ser Trp Ser Ser Ala Gln Ala Ala Gly Ile Val Gly Met Ser Glu Arg
 210                215                220
Thr Leu Asn Arg His Phe Gln Gln Gln Thr Gly Leu Ser Tyr Gly Glu
 225                230                235                240
Trp Val Arg Arg Ala Arg Leu Leu Glu Ala Leu Val Arg Leu Ala Gln
      245                250                255
Gly Gln Pro Val Leu Arg Val Ala Leu Asp Leu Gly Tyr Gly Ser His
      260                265                270
Ser Ala Phe Thr Ala Met Phe Arg Arg Val Met Gly Leu Ser Pro Ser
      275                280                285
Asp Tyr Phe Arg Asn Asp
 290                295

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<210> 7612

<211> 118

<212> PRT

<213> Enterobacter cloacae

<400> 7612

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Gly Lys Asp Met Tyr Leu Arg Pro Asp Glu Val Ala Arg Val Leu Glu
 1                5                10                15
Lys Glu Gly Phe Thr Met Asp Glu Val Thr Ser Lys Ala Tyr Gly Tyr
      20                25                30
Arg Arg Gly Glu Asn Tyr Val Tyr Val Asn Arg Glu Ala Arg Met Gly
      35                40                45
Arg Thr Ala Leu Ile Ile His Pro Thr Leu Lys Asp Arg Ser Leu Ser
      50                55                60
Phe Ala Glu Pro Ala Ser Asp Ile Lys Thr Cys Asp His Tyr Gln Gln
      65                70                75                80
Phe Pro Leu Tyr Leu Gly Gly Glu Thr His Glu His Tyr Gly Ile Pro
      85                90                95
His Gly Phe Ser Ser Arg Met Ala Leu Glu Arg Phe Leu Lys Gly Leu
      100                105                110
Phe Gly Asp Val Gln
 115

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<210> 7613

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 7613

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Thr Pro Cys Ser Leu Tyr His Ser Leu Thr Ser Ser Arg Ser Gly Thr
 1                5                10                15
Ala Val Val Leu Cys Leu Ser Val Arg Ala Ala Arg Ala Arg Leu Leu
      20                25                30
Lys Arg Tyr Ser Ile Thr Leu Gly Leu Arg His Tyr Phe Ser Ala Val
      35                40                45
Val Ala Ala Asp His Val Lys His His Lys Pro Ala Pro Asp Thr Phe
      50                55                60
Leu Leu Cys Ala Glu Leu Met Gly Val Pro Pro Ala Lys Cys Val Val
      65                70                75                80
Phe Glu Asp Ala Asp Phe Gly Ile Gln Pro Ala Arg Asp Ala Gly Met
      85                90                95
Ala Ala Val Asp Val Arg Leu Leu
 100                105

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<210> 7614

<211> 173

<212> PRT

<213> *Enterobacter cloacae*

<400> 7614

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Arg Met Pro Leu Leu Asp Ser Phe Thr Val Asp His Thr Arg Met Glu
1      5      10      15
Ala Pro Ala Val Arg Val Ala Lys Thr Met Asn Thr Pro His Gly Asp
      20      25      30
Thr Ile Thr Val Phe Asp Leu Arg Phe Cys Val Pro Asn Lys Glu Val
      35      40      45
Met Pro Glu Lys Gly Ile His Thr Leu Glu His Leu Phe Ala Gly Phe
      50      55      60
Met Arg Asp His Leu Asn Gly Asn Gly Val Glu Ile Ile Asp Ile Ser
65      70      75      80
Pro Met Gly Cys Arg Thr Gly Phe Tyr Met Ser Leu Ile Gly Gln Pro
      85      90      95
Glu Glu Lys Arg Val Ala Asp Ala Trp Lys Ala Ala Met Glu Asp Val
      100     105     110
Leu Lys Val Lys Glu Gln Asn Gln Ile Pro Glu Leu Asn Val Tyr Gln
      115     120     125
Cys Gly Thr Tyr Gln Met His Ser Leu Glu Glu Ala Gln Glu Ile Ala
      130     135     140
Arg His Ile Ile Glu Arg Asp Val Arg Val Asn Ser Asn Asp Glu Leu
145     150     155     160
Ala Leu Pro Lys Glu Lys Leu Gln Glu Leu His Ile
      165     170

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<210> 7615

<211> 524

<212> PRT

<213> *Enterobacter cloacae*

<400> 7615

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Gln Phe Phe Asp Arg Arg Glu Val Lys Leu Ile Pro Asp Val Ser Gln
1      5      10      15
Ala Leu Ala Trp Leu Glu Asn His Pro Gln Ala Leu Lys Gly Ile Gln
      20      25      30
Arg Gly Leu Glu Arg Glu Thr Leu Arg Val Asn Ala Asp Gly Ser Leu
      35      40      45
Ala Thr Thr Gly His Pro Lys Ala Leu Gly Ser Ala Leu Thr His Lys
      50      55      60
Trp Ile Thr Thr Asp Phe Ala Glu Ala Leu Leu Glu Phe Ile Thr Pro
65      70      75      80
Val Asp Gly Asp Ile Asp His Met Leu Thr Ile Met Arg Asp Val His
      85      90      95
Arg Phe Thr Ala Arg Asn Leu Gly Asp Glu Arg Met Trp Pro Leu Ser
      100     105     110
Met Pro Cys Tyr Ile Glu Gln Gly Gln Asp Ile Glu Leu Ala Gln Tyr
      115     120     125
Gly Thr Ser Asn Ile Gly Arg Leu Lys Thr Leu Tyr Arg Glu Gly Leu
      130     135     140
Lys Asn Arg Tyr Gly Ala Leu Met Gln Thr Ile Ser Gly Val His Tyr
145     150     155     160
Asn Phe Ser Leu Pro Met Ala Phe Trp Gln Ala Lys Cys Gly Glu Thr
      165     170     175
Asp Lys Glu Ala Ile Ser Ala Gly Tyr Phe Arg Leu Ile Arg Asn Tyr
      180     185     190
Tyr Arg Phe Gly Trp Val Ile Pro Tyr Leu Phe Gly Ala Ser Pro Ala
      195     200     205
Ile Cys Ser Ser Phe Leu Gln Gly Lys Pro Thr Thr Leu Pro Phe Glu
210     215     220
Lys Thr Glu Cys Gly Met Tyr Tyr Leu Pro Tyr Ala Thr Ser Leu Arg

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225 230 235 240
 Leu Ser Asp Leu Gly Tyr Thr Asn Lys Ser Gln Ser Asn Leu Gly Ile
 245 250 255
 Thr Phe Asn Asp Leu His Glu Tyr Val Ala Gly Leu Lys Arg Ala Ile
 260 265 270
 Lys Thr Pro Ser Glu Glu Tyr Glu Lys Ile Gly Leu Glu Lys Asp Gly
 275 280 285
 Lys Arg Leu Gln Ile Asn Thr Asn Val Leu Gln Ile Glu Asn Glu Leu
 290 295 300
 Tyr Ala Pro Ile Arg Pro Lys Arg Val Thr Arg Ser Gly Glu Thr Pro
 305 310 315 320
 Ser Asp Ala Leu Gln Arg Gly Gly Ile Glu Tyr Ile Glu Val Arg Ser
 325 330 335
 Leu Asp Ile Asn Pro Phe Ser Pro Ile Gly Val Asp Glu Gln Gln Val
 340 345 350
 Arg Phe Leu Asp Leu Phe Met Val Trp Cys Val Leu Ala Asp Ala Pro
 355 360 365
 Glu Met Ser Ser Asp Glu Leu Leu Cys Thr Arg Ala Asn Trp Asn Arg
 370 375 380
 Val Ile Leu Glu Gly Arg Lys Pro Gly Leu Thr Leu Gly Ile Gly Cys
 385 390 395 400
 Glu Thr Ala Gln Phe Pro Leu Ser Lys Val Gly Lys Asp Leu Phe His
 405 410 415
 Asp Leu Lys Arg Val Ala Gln Thr Leu Asp Ser Val Tyr Gly Gly Glu
 420 425 430
 Ala Tyr Gln Lys Val Cys Asp Glu Leu Val Glu Ser Phe Asp Asn Pro
 435 440 445
 Glu Leu Thr Phe Ser Ala Arg Ile Leu Arg Ser Met Ile Glu Gln Gly
 450 455 460
 Ile Gly Gly Thr Gly Arg Ser Leu Ser Ala Glu Tyr Arg Glu Met Leu
 465 470 475 480
 Met Gln Glu Pro Leu Glu Ile Leu Ser Glu Ala Asp Phe Val Ala Glu
 485 490 495
 Arg Asp Ala Ser Val Val Arg Gln Lys Glu Val Glu Ala Ala Asp Thr
 500 505 510
 Glu Ser Phe Glu Ala Phe Leu Ala Lys Gln Ala
 515 520

<210> 7616

<211> 119

<212> FRT

<213> Enterobacter cloacae

<400> 7616

Pro Thr Glu Lys Arg Cys Gly Glu Thr Gly Leu Ile Val Pro Ala Cys
 5 10 15
 Phe Thr Leu Lys Pro Pro His Gln Glu Ala Ser Ala Met Ala Thr Pro
 20 25 30
 Arg Leu Thr Thr Lys Asp Met Thr Glu Ala Glu Gln Arg Glu Leu Lys
 35 40 45
 Thr Leu Leu Asp Arg Ala Arg Ile Ala His Gly Arg Thr Leu Thr Asn
 50 55 60
 Ala Glu Thr Asn Gln Val Lys Lys Glu Tyr Ile Asp Lys Leu Met Ala
 65 70 75 80
 Gln Arg Glu Ala Ala Lys Lys Ala Arg Lys Leu Lys Lys Glu Gln
 85 90 95
 Ala Tyr Lys Pro Asp Ala Glu Ala Thr Phe Ser Trp Ser Ala Asn Thr
 100 105 110
 Ser Thr Arg Gly Arg Arg
 115

<210> 7617

<211> 454

<212> PRT

<213> Enterobacter cloacae

<400> 7617

His Glu Val Val Met Thr Ser Phe Val Val Ala Lys Phe Gly Gly Thr
 1 5 10 15
 Ser Val Ala Asp Tyr Asp Ala Met Asn Arg Ser Ala Asp Val Val Leu
 20 25 30
 Ala Asp Pro Asn Thr Arg Leu Val Val Leu Ser Ala Ser Ala Gly Val
 35 40 45
 Thr Asn Leu Leu Val Ser Leu Ser Glu Gly Leu Glu Ala Thr Glu Arg
 50 55 60
 Phe Val Lys Leu Asp Ala Leu Arg Lys Ile Gln Phe Asp Ile Leu Glu
 65 70 75 80
 Arg Leu Gln Asn Pro Asn Val Ile Arg Glu Glu Val Glu Arg Leu Leu
 85 90 95
 Glu Asn Ile Thr Thr Leu Ala Glu Ala Ala Ser Leu Ala Thr Ser Thr
 100 105 110
 Ala Leu Thr Asp Glu Leu Val Ser His Gly Glu Leu Met Ser Thr Leu
 115 120 125
 Leu Phe Val Glu Ile Met Arg Glu Arg Asn Ile Gln Ala Gln Trp Phe
 130 135 140
 Asp Val Arg Lys Val Met Arg Thr Ser Asp Arg Phe Gly Arg Ala Glu
 145 150 155 160
 Pro Asp Val Glu Val Leu Ala Glu Leu Thr Asn Gln Gln Leu Ala Pro
 165 170 175
 Arg Leu Asp Glu Gly Ile Val Ile Thr Gln Gly Phe Ile Gly Ser Glu
 180 185 190
 Ala Lys Gly Arg Thr Thr Thr Leu Gly Arg Gly Gly Ser Asp Tyr Thr
 195 200 205
 Ala Ala Leu Leu Gly Glu Ala Leu His Ala Thr Arg Val Asp Ile Trp
 210 215 220
 Thr Asp Val Pro Gly Ile Tyr Thr Thr Asp Pro Arg Val Val Ser Ala
 225 230 235 240
 Ala Lys Arg Ile Asp Val Ile Ala Phe Glu Glu Ala Ala Glu Met Ala
 245 250 255
 Thr Phe Gly Ala Lys Val Leu His Pro Ala Thr Leu Leu Pro Ala Val
 260 265 270
 Arg Ser Asp Ile Pro Val Phe Val Gly Ser Ser Lys Asp Pro Lys Ala
 275 280 285
 Gly Gly Thr Leu Val Cys Lys Lys Thr Glu Asn Pro Pro Leu Phe Arg
 290 295 300
 Ala Leu Ala Leu Arg Arg Lys Gln Thr Leu Val Thr Leu His Ser His
 305 310 315 320
 Asn Met Leu His Ser Arg Gly Phe Leu Ala Glu Val Phe Gly Ile Leu
 325 330 335
 Ala Arg His Asn Ile Ser Val Asp Leu Ile Thr Thr Ser Glu Val Ser
 340 345 350
 Ile Ala Leu Thr Leu Asp Thr Thr Gly Ser Thr Ser Thr Gly Asp Thr
 355 360 365
 Leu Leu Thr Gln Ser Leu Leu Ile Glu Leu Ser Glu Leu Cys Arg Val
 370 375 380
 Glu Val Glu Glu Asp Leu Ala Leu Val Ala Ile Ile Gly Asn Lys Leu
 385 390 395 400
 Ser Arg Ala Cys Gly Val Gly Lys Glu Val Phe Gly Val Leu Asp Pro
 405 410 415
 Phe Asn Ile Arg Met Ile Cys Tyr Gly Ala Ser Ser Tyr Asn Leu Cys
 420 425 430
 Phe Leu Val Pro Ala Asp Gln Ala Glu Gln Val Val Gln Lys Leu His

435
Gln Asn Leu Phe Glu
450

440

445

<210> 7618
<211> 340
<212> PRT
<213> Enterobacter cloacae

<400> 7618
Thr Ile Ser Ile Ser Arg Ala Gln Thr Arg Leu Phe Tyr Asn Lys Thr
1 5 10 15
Thr Arg Gln Tyr Cys Lys Glu Phe Thr Met Leu Ser Ala Ile Thr Arg
20 25 30
Leu Phe Pro Leu Trp Ala Leu Leu Ser Val Leu Ala Tyr Tyr Thr
35 40 45
Pro Ala Thr Phe Thr Gly Ile Gly Pro Trp Val Thr Thr Leu Leu Met
50 55 60
Leu Ile Met Phe Gly Met Gly Val His Leu Lys Ile Asp Asp Phe Lys
65 70 75 80
Arg Val Leu Ser Arg Pro Ala Pro Val Ala Ala Gly Ile Phe Leu His
85 90 95
Tyr Leu Val Met Pro Leu Ala Ala Trp Leu Leu Ala Met Ala Phe Lys
100 105 110
Met Pro Pro Asp Leu Ser Ala Gly Met Val Leu Val Gly Ser Val Ala
115 120 125
Ser Gly Thr Ala Ser Asn Val Met Ile Tyr Leu Ala Lys Gly Asp Val
130 135 140
Ala Leu Ser Val Thr Ile Ser Ser Val Ser Thr Leu Val Gly Val Ile
145 150 155 160
Ala Thr Pro Leu Leu Thr Arg Leu Tyr Val Asp Ala His Ile Gln Val
165 170 175
Asp Val Met Gly Met Leu Leu Ser Ile Leu Gln Ile Val Val Ile Pro
180 185 190
Ile Ala Leu Gly Leu Val Ile His His Leu Phe Pro Arg Val Val Lys
195 200 205
Ala Val Glu Pro Tyr Leu Pro Ala Phe Ser Met Ile Cys Ile Leu Ala
210 215 220
Ile Ile Ser Ala Val Val Ala Gly Ser Ala Ser His Ile Ala Ser Val
225 230 235 240
Gly Phe Val Val Ile Val Ala Val Val Leu His Asn Thr Ile Gly Leu
245 250 255
Leu Gly Gly Tyr Trp Gly Gly Lys Leu Phe Gly Phe Asp Glu Ser Thr
260 265 270
Cys Arg Thr Leu Ala Ile Glu Val Gly Met Gln Asn Ser Gly Leu Ala
275 280 285
Ala Ala Leu Gly Lys Ile Tyr Phe Ser Pro Leu Ala Ala Leu Pro Gly
290 295 300
Ala Leu Phe Ser Val Trp His Asn Leu Ser Gly Ser Leu Leu Ala Gly
305 310 315 320
Tyr Trp Ser Gly Lys Pro Ile Asp Asp Gln Pro Lys Lys Asp Ala Val
325 330 335
Lys Gln Gly
340

<210> 7619
<211> 311
<212> PRT
<213> Enterobacter cloacae

<400> 7619

His Glu Thr Cys Ser Leu Ser Leu Leu Arg Ser Val Arg Lys Ala Val
 1 5 10 15
 Ala Lys Pro Pro Asn Lys Thr Lys Met Ile Ser Thr Ile Gln Lys Lys
 20 25 30
 Glu Phe Val Met Val Thr Thr Val Pro Ala Lys Arg Gly Arg Lys Pro
 35 40 45
 Ala Ala Thr Thr Ala Ala Gln Pro Gly Gly Gln Val Gln Ser Leu Thr
 50 55 60
 Arg Gly Leu Lys Leu Leu Glu Trp Ile Ala Glu Ser His Gly Ser Val
 65 70 75 80
 Ala Leu Thr Glu Leu Ala Gln Gln Ala Gly Leu Pro Asn Ser Thr Thr
 85 90 95
 His Arg Leu Leu Thr Thr Met Gln Gln Leu Gly Phe Val Arg Gln Val
 100 105 110
 Gly Glu Leu Gly His Trp Ala Val Gly Ala His Ala Phe Ile Val Gly
 115 120 125
 Ser Ser Phe Leu Gln Ser Arg Asn Leu Leu Ala Ile Val His Pro Ile
 130 135 140
 Leu Arg Lys Leu Met Glu Glu Ser Gly Glu Thr Val Asn Leu Ala Val
 145 150 155 160
 Leu Asp Gln Ser Asp His Gln Ala Ile Ile Ile Asp Gln Val Gln Cys
 165 170 175
 Thr Gln Leu Met Arg Met Ser Ala Pro Ile Gly Gly Lys Leu Pro Met
 180 185 190
 His Ala Ser Gly Ala Gly Lys Ala Phe Leu Ser Gln Leu Ser Glu Glu
 195 200 205
 Gln Val Thr Gly Leu Leu His Arg Lys Gly Leu His Ala Tyr Thr His
 210 215 220
 Ala Thr Leu Val Ser Pro Val His Leu Lys Glu Asp Leu Ala Leu Thr
 225 230 235 240
 Arg Lys Arg Gly Tyr Ser Phe Asp Asp Glu His Ala Leu Gly Leu
 245 250 255
 Arg Cys Leu Ala Ser Cys Ile Phe Asp Glu His Arg Glu Pro Phe Ala
 260 265 270
 Ala Ile Ser Ile Ser Gly Pro Ile Ser Arg Met Thr Asp Asp Arg Val
 275 280 285
 Thr Glu Leu Gly Ala Met Val Ile Lys Ala Ala Lys Glu Val Thr Leu
 290 295 300
 Ala Tyr Gly Gly Ile Arg
 305 310

<210> 7620

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 7620

Ile Thr Gly Ser Asn Met Lys Glu Ile Val Gln Thr Glu Ser Phe Arg
 1 5 10 15
 Arg Trp Glu Gln Asn Leu Lys Asp Arg Arg Ala Lys Thr Ile Ile Ala
 20 25 30
 Ser Arg Leu Phe Arg Leu Ala Asn Gly Leu Ala Gly Asp Ile Arg Pro
 35 40 45
 Val Gly Glu Gly Ile Ser Glu Leu Arg Ile His Phe Gly Pro Gly Tyr
 50 55 60
 Arg Val Tyr Phe Lys Asp Gln Gly Asn Cys Ile Ile Val Leu Leu Cys
 65 70 75 80
 Gly Gly Asp Lys Ser Ser Gln Ala Arg Asp Ile Leu Met Ala Lys Met
 85 90 95
 Leu Ser Asn Val Ser Gln Trp Gln Glu
 100 105

<210> 7621
 <211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 7621
 Met Ser Met His Lys Leu Thr Pro Tyr Asp Pro Ala Asn Ala Leu Val
 1 5 10 15
 Asp Asp Glu Glu Ile Ala Val Phe Met Ala Asp Ala Leu Glu Thr Gly
 20 25 30
 Asp Ser Ala Tyr Ile Ala Lys Ala Leu Gly Val Ile Ala Arg Ala Lys
 35 40 45
 Gly Met Ser Thr Ile Ser Gln Gln Thr Gly Leu Ser Arg Glu Gln Leu
 50 55 60
 Tyr Arg Ser Phe Ser Asp Lys Gly Asn Pro Thr Leu Lys Thr Thr Leu
 65 70 75 80
 Ala Val Met Lys Ala Leu Gly Leu Gly Leu Thr Ile Lys Pro Ser Gly
 85 90 95
 Asp

<210> 7622
 <211> 314
 <212> PRT
 <213> Enterobacter cloacae

<400> 7622
 Gly Phe Lys Val Met Pro Ile Arg Val Gln Asp Glu Leu Pro Ala Val
 1 5 10 15
 Asn Phe Leu Arg Glu Glu Asn Val Phe Val Met Thr Thr Ser Arg Ala
 20 25 30
 Ser Gly Gln Glu Ile Arg Pro Leu Lys Val Leu Ile Leu Asn Leu Met
 35 40 45
 Pro Lys Lys Ile Glu Thr Glu Asn Gln Phe Leu Arg Leu Leu Ser Asn
 50 55 60
 Ser Pro Leu Gln Val Asp Ile Gln Leu Leu Arg Ile Asp Ala Arg Glu
 65 70 75 80
 Ser Arg Asn Thr Pro Ala Glu His Leu Asn Asn Phe Tyr Cys Asn Phe
 85 90 95
 Glu Asp Ile Arg Asp Glu Asn Phe Asp Gly Leu Ile Val Thr Gly Ala
 100 105 110
 Pro Leu Gly Leu Val Glu Phe Asn Asp Val Ala Tyr Trp Pro Gln Ile
 115 120 125
 Arg Gln Val Leu Glu Trp Ala Lys Asp His Val Thr Ser Thr Leu Phe
 130 135 140
 Val Cys Trp Ala Val Gln Ala Ala Leu Asn Ile Leu Tyr Gly Ile Pro
 145 150 155 160
 Lys Gln Thr Arg Ser Asp Lys Leu Ser Gly Val Tyr Glu His His Ile
 165 170 175
 Leu His Pro His Ala Leu Leu Thr Arg Gly Phe Asp Asp Thr Phe Leu
 180 185 190
 Ala Pro His Ser Arg Tyr Ala Asp Phe Pro Ala Gln Leu Ile Arg Asp
 195 200 205
 Tyr Thr Asp Leu Glu Ile Leu Ala Glu Thr Glu Asp Gly Asp Ala Tyr
 210 215 220
 Leu Phe Ala Ser Lys Asp Lys Arg Ile Ala Phe Val Thr Gly His Pro
 225 230 235 240
 Glu Tyr Asp Pro His Thr Leu Ala Ala Glu Tyr Phe Arg Asp Val Glu
 245 250 255
 Ala Gly Leu Asn Pro Asp Val Pro Tyr Asn Tyr Phe Pro Lys Asn Asp

260 265 270
 Pro Gln Asn Thr Pro Arg Ala Thr Trp Arg Ser His Gly Asn Leu Leu
 275 280 285
 Phe Thr Asn Trp Leu Asn Tyr Tyr Val Tyr Gln Ile Thr Pro Tyr Asp
 290 295 300
 Leu Arg His Met Asn Pro Thr Leu Glu
 305 310

<210> 7623

<211> 455

<212> PRT

<213> Enterobacter cloacae

<400> 7623

Pro Cys Arg Ala Thr Ala Ser Trp Arg Asn Ser Pro His Asn Asn Met
 1 5 10 15
 Glu His Leu His Met Lys Thr Arg Thr Gln Gln Ile Glu Glu Leu Gln
 20 25 30
 Lys Glu Trp Thr Gln Pro Arg Trp Glu Gly Ile Arg Arg Pro Tyr Ser
 35 40 45
 Ala Glu Glu Val Val Lys Leu Arg Gly Ser Val Asn Pro Glu Cys Thr
 50 55 60
 Leu Ala Gln Asn Gly Ala Ala Lys Met Trp Asp Leu Leu His Gly Gly
 65 70 75 80
 Ala Lys Lys Gly Tyr Ile Asn Ser Leu Gly Ala Leu Thr Gly Gly Gln
 85 90 95
 Ala Leu Gln Gln Ala Lys Ala Gly Ile Glu Ala Ile Tyr Leu Ser Gly
 100 105 110
 Trp Gln Val Ala Ala Asp Ala Asn Leu Ala Ser Ser Met Tyr Pro Asp
 115 120 125
 Gln Ser Leu Tyr Pro Ala Asn Ser Val Pro Ser Val Val Asp Arg Ile
 130 135 140
 Asn Asn Thr Phe Arg Arg Ala Asp Gln Ile Gln Trp Ala Ala Gly Ile
 145 150 155 160
 Glu Pro His Asp Pro Arg Phe Ile Asp Tyr Phe Leu Pro Ile Val Ala
 165 170 175
 Asp Ala Glu Ala Gly Phe Gly Gly Val Leu Asn Ala Phe Glu Leu Met
 180 185 190
 Lys Ser Met Ile Glu Ala Gly Ala Ala Val His Phe Glu Asp Gln
 195 200 205
 Leu Ala Ser Val Lys Lys Cys Gly His Met Gly Gly Lys Val Leu Val
 210 215 220
 Pro Thr Gln Glu Ala Ile Gln Lys Leu Val Ala Ala Arg Leu Ala Ala
 225 230 235 240
 Asp Val Leu Gly Val Pro Thr Leu Val Ile Ala Arg Thr Asp Ala Asp
 245 250 255
 Ala Ala Asp Leu Ile Thr Ser Asp Cys Asp Pro Tyr Asp Ser Glu Phe
 260 265 270
 Ile Thr Gly Glu Arg Thr Ser Glu Gly Phe Tyr Arg Thr His Ala Gly
 275 280 285
 Ile Glu Gln Ala Ile Ser Arg Gly Leu Ala Tyr Ala Pro Tyr Ala Asp
 290 295 300
 Leu Val Trp Cys Glu Thr Ser Thr Pro Asp Leu Ala Leu Ala Lys Arg
 305 310 315 320
 Phe Ala Asp Ala Ile His Ala Lys Tyr Pro Gly Lys Leu Leu Ala Tyr
 325 330 335
 Asn Cys Ser Pro Ser Phe Asn Trp Gln Lys Asn Leu Asp Asp Thr Thr
 340 345 350
 Ile Ala Ser Phe Gln Gln Gln Leu Ser Asp Met Gly Tyr Lys Tyr Gln
 355 360 365
 Phe Ile Thr Leu Ala Gly Ile His Ser Met Trp Phe Asn Met Phe Asp

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      370              375              380
Leu Ala His Ala Tyr Ala Gln Gly Glu Gly Met Lys His Tyr Val Glu
385              390              395              400
Lys Val Gln Gln Pro Glu Phe Ala Ala Gly Lys Glu Gly Tyr Thr Phe
      405              410              415
Val Ser His Gln Gln Glu Val Gly Thr Gly Tyr Phe Asp Asn Val Thr
      420              425              430
Thr Ile Ile Gln Gly Gly Ala Ser Ser Val Thr Ala Leu Thr Gly Ser
      435              440              445
Thr Glu Glu Ala Gln Phe
      450              455

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<210> 7624

<211> 601

<212> PRT

<213> Enterobacter cloacae

<400> 7624

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Ser Phe Pro Pro Leu Pro Pro Arg Gly Glu Gly Trp Gly Glu Gly Glu
1      5      10      15
Tyr Met Ser Arg Gly Leu Glu Leu Ile Ala Gln Thr Ile Leu Gln
      20      25      30
Gly Phe Asp Ala Gln Tyr Gly Arg Phe Leu Glu Val Thr Ser Gly Ala
      35      40      45
Gln Gln Arg Phe Glu His Ala Asp Trp His Ala Val Gln Gln Ala Met
      50      55      60
Lys Gln Arg Ile His Leu Tyr Asp His His Val Gly Leu Val Val Glu
      65      70      75      80
Gln Leu Arg Cys Ile Thr Asp Gly Lys Ser Pro Asp Ala Asp Phe Leu
      85      90      95
Leu Arg Val Lys Glu His Tyr Thr His Leu Leu Pro Asp Tyr Pro Arg
      100      105      110
Phe Glu Ile Ala Glu Ser Phe Phe Asn Ser Val Tyr Cys Arg Leu Phe
      115      120      125
Asp His Arg Ser Leu Ser Pro Glu Arg Leu Phe Ile Phe Ser Ser Gln
      130      135      140
Pro Glu Arg Arg Phe Arg Thr Ile Pro Arg Pro Leu Ala Lys Asp Phe
      145      150      155      160
Phe Pro Asp Arg Gly Trp Glu Lys Leu Leu His Arg Val Leu Thr Asp
      165      170      175
Leu Pro Leu Arg Leu Pro Trp Glu Asn Lys Pro Arg Asp Ile Gly Tyr
      180      185      190
Ile His Ala Tyr Leu Ser Glu Thr Phe Gly Glu Glu Val Leu Ser Arg
      195      200      205
Ser His Leu Gln Val Ala Asn Glu Leu Phe Tyr Arg Asn Lys Ala Ala
      210      215      220
Trp Leu Val Gly Lys Leu Val Thr Pro Thr Ala Ile Val Pro Phe Leu
      225      230      235      240
Leu Pro Ile His Arg Thr Asp Asp Gly Glu Leu Phe Val Asp Thr Cys
      245      250      255
Leu Thr Thr Ser Ala Glu Ala Ser Ile Val Phe Gly Phe Ala Arg Ser
      260      265      270
Tyr Phe Met Val Tyr Ala Pro Leu Pro Ala Ala Leu Val Glu Trp Leu
      275      280      285
Arg Glu Ile Leu Pro Gly Lys Thr Thr Ala Glu Leu Tyr Met Ala Ile
      290      295      300
Gly Cys Gln Lys His Ala Lys Thr Glu Ser Tyr Arg Glu Tyr Leu Arg
      305      310      315      320
Tyr Val Thr Thr Ala Asp Glu Gln Phe Ile Glu Ala Pro Gly Ile Arg
      325      330      335
Gly Met Val Met Leu Val Phe Thr Leu Pro Gly Phe Asp Arg Val Phe

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340 345 350
 Lys Val Ile Lys Asp Lys Phe Ala Pro Gln Lys Glu Met Ser Ala Ala
 355 360 365
 His Val Arg Ala Cys Tyr Gln Leu Val Lys Glu His Asp Arg Val Gly
 370 375 380
 Arg Met Ala Asp Thr Gln Glu Phe Glu Asn Phe Val Leu Asp Lys Gln
 385 390 395 400
 Gln Ile Asp Pro Ser Leu Val Ser Leu Leu Met Gln Glu Ala Pro Thr
 405 415
 Lys Ile Thr Asp Leu Gly Asp Lys Ile Ala Ile Ser His Leu Tyr Ile
 420 425 430
 Glu Arg Arg Met Val Pro Leu Asn Ile Trp Leu Glu Gln Ser Glu Gly
 435 440 445
 Gln Ala Leu Arg Asp Ala Ile Glu Glu Tyr Gly Asn Ala Ile Arg Gln
 450 455 460
 Leu Ala Ala Ala Asn Ile Phe Pro Gly Asp Met Leu Phe Lys Asn Phe
 465 470 475 480
 Gly Val Thr Arg His Gly Arg Val Val Phe Tyr Asp Tyr Asp Glu Ile
 485 490 495
 Cys Tyr Met Thr Glu Val Asn Phe Arg Asp Ile Pro Pro Pro Arg Tyr
 500 505 510
 Pro Glu Asp Glu Leu Ser Ser Glu Pro Trp Tyr Ser Val Ser Pro Gly
 515 520 525
 Asp Val Phe Pro Glu Glu Phe Arg His Trp Leu Cys Ala Asp Pro Arg
 530 535 540
 Ile Gly Pro Leu Phe Glu Glu Met His Ala Asp Leu Phe Arg Ala Ser
 545 550 555 560
 Tyr Trp Arg Gly Leu Gln Thr Arg Ile Lys Asn Gly His Val Glu Asp
 565 570 575
 Val Tyr Ala Tyr Arg Arg Lys Gln Arg Phe Cys Ile Arg Phe Ser Pro
 580 585 590
 Ser Pro Cys Gly Arg Gly Pro Gly
 595 600

<210> 7625

<211> 1234

<212> PRT

<213> Enterobacter cloacae

<400> 7625

Ala Leu Ser Gly Ala Ser Val Ser Ser Lys Val Glu Gln Leu Arg Ala
 1 5 10 15
 Gln Leu Asn Glu Arg Ile Leu Val Leu Asp Gly Gly Met Gly Thr Met
 20 25 30
 Ile Gln Gly Tyr Arg Leu Cys Glu Asp Asp Phe Arg Gly Glu Arg Phe
 35 40 45
 Ala Asp Trp Pro Cys Asp Leu Lys Gly Asn Asn Asp Leu Leu Val Leu
 50 55 60
 Ser Lys Pro Ser Val Ile Arg Asp Ile His Asn Ala Tyr Phe Glu Ala
 65 70 75 80
 Gly Ala Asp Ile Val Glu Thr Asn Thr Phe Asn Ser Thr Thr Ile Ala
 85 90 95
 Met Ala Asp Tyr Gln Met Glu Ser Leu Ser Ala Glu Ile Asn Phe Glu
 100 105 110
 Ala Ala Lys Leu Ala Arg Ala Cys Ala Asp Glu Trp Thr Ala Arg Thr
 115 120 125
 Pro Asp Lys Pro Arg Tyr Val Ala Gly Val Leu Gly Pro Thr Asn Arg
 130 135 140
 Thr Ala Ser Ile Ser Pro Asp Val Asn Asp Pro Ala Phe Arg Asn Ile
 145 150 155 160
 Thr Phe Asp Gln Leu Val Ala Ala Tyr Arg Glu Ser Thr Lys Ala Leu

[illegible]

Gln Ala Glu Trp Arg Ser Trp Asp Val Asn Lys Arg Leu Glu Tyr Ser
 660 665 670
 Leu Val Lys Gly Ile Thr Glu Phe Ile Glu Gln Asp Thr Glu Glu Ala
 675 680 685
 Arg Gln Gln Ala Ala Arg Pro Ile Glu Val Ile Glu Gly Pro Leu Met
 690 695 700
 Asp Gly Met Asn Val Val Gly Asp Leu Phe Gly Glu Gly Lys Met Phe
 705 710 715 720
 Leu Pro Gln Val Val Lys Ser Ala Arg Val Met Lys Gln Ala Val Ala
 725 730 735
 Tyr Leu Glu Pro Phe Ile Glu Ala Ser Lys Glu Lys Gly Ser Ser Asn
 740 745 750
 Gly Lys Met Val Ile Ala Thr Val Lys Gly Asp Val His Asp Ile Gly
 755 760 765
 Lys Asn Ile Val Gly Val Val Leu Gln Cys Asn Asn Tyr Glu Ile Ile
 770 775 780
 Asp Leu Gly Val Met Val Pro Ala Asp Lys Ile Leu Arg Thr Ala Arg
 785 790 795 800
 Glu Val Asn Ala Asp Leu Ile Gly Leu Ser Gly Leu Ile Thr Pro Ser
 805 810 815
 Leu Asp Glu Met Val Asn Val Ala Lys Glu Met Glu Arg Gln Gly Phe
 820 825 830
 Thr Ile Pro Leu Leu Ile Gly Gly Ala Thr Thr Ser Lys Ala His Thr
 835 840 845
 Ala Val Lys Ile Glu Gln Asn Tyr Ser Gly Pro Thr Val Tyr Val Gln
 850 855 860
 Asn Ala Ser Arg Thr Val Gly Val Val Ser Ala Leu Leu Ser Asp Thr
 865 870 875 880
 Gln Arg Asp Asp Phe Val Ala Arg Thr Arg Lys Glu Tyr Glu Thr Val
 885 890 895
 Arg Ile Gln His Gly Arg Lys Lys Pro Arg Thr Pro Pro Val Ser Leu
 900 905 910
 Gln Ala Ala Arg Glu Asn Asp Leu Ala Phe Asp Trp Ser Ser Tyr Thr
 915 920 925
 Pro Pro Val Ala His Arg Leu Gly Val Gln Asp Val Thr Ala Ser Ile
 930 935 940
 Glu Thr Leu Arg Asn Tyr Ile Asp Trp Thr Pro Phe Phe Met Thr Trp
 945 950 955 960
 Ser Leu Ala Gly Lys Tyr Pro Arg Ile Leu Glu Asp Glu Val Val Gly
 965 970 975
 Glu Glu Ala Lys Arg Leu Phe Lys Asp Ala Asn Asp Met Leu Asp Arg
 980 985 990
 Leu Ser Ala Glu Lys Ala Leu Asn Pro Arg Gly Val Val Gly Leu Phe
 995 1000 1005
 Pro Ala Asn Arg Val Gly Asp Asp Val Glu Ile Tyr Arg Asp Glu Thr
 1010 1015 1020
 Arg Thr His Val Leu Ala Val Ser His His Leu Arg Gln Gln Thr Glu
 1025 1030 1035 1040
 Lys Val Gly Phe Ala Asn Tyr Cys Leu Ala Asp Phe Val Ala Pro Lys
 1045 1050 1055
 Leu Ser Gly Lys Ala Asp Tyr Ile Gly Ala Phe Ala Val Thr Gly Gly
 1060 1065 1070
 Leu Glu Glu Asp Ala Leu Ala Asp Ala Tyr Asp Ala Gln His Asp Asp
 1075 1080 1085
 Tyr Asn Lys Ile Met Val Lys Ala Ile Ala Asp Arg Leu Ala Glu Ala
 1090 1095 1100
 Phe Ala Glu Tyr Leu His Glu Arg Val Arg Lys Val His Trp Gly Tyr
 1105 1110 1115 1120
 Ala Ala Asn Glu Asn Leu Ser Asn Glu Glu Leu Ile Arg Glu Asn Tyr
 1125 1130 1135
 Gln Gly Ile Arg Pro Ala Pro Gly Tyr Pro Ala Cys Pro Glu His Thr

1140 1145 1150
 Glu Lys Gly Thr Ile Trp Lys Leu Leu Asp Val Glu Ala His Thr Gly
 1155 1160 1165
 Met Lys Leu Thr Glu Ser Phe Ala Met Trp Pro Gly Ala Ser Val Ser
 1170 1175 1180
 Gly Trp Tyr Phe Ser His Pro Asp Ser Lys Tyr Phe Ala Val Ala Gln
 1185 1190 1195 1200
 Leu Gln Arg Asp Gln Ile Glu Asp Tyr Ala Leu Arg Lys Gly Met Ser
 1205 1210 1215
 Val Ser Glu Val Glu Arg Trp Leu Ala Pro Asn Leu Gly Tyr Asp Ala
 1220 1225 1230
 Asp

<210> 7626

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 7626

Lys Thr Arg Leu Ser Asn Arg Arg Leu Ile Phe Phe Ser Ser Pro Asn
 1 5 10 15
 Leu Arg Tyr Ile Ser Pro Phe Thr Gly Glu Thr Met Leu Pro Thr Gln
 20 25 30
 Ser Thr Arg Leu Asn Lys Tyr Ile Ser Glu Ser Gly Ile Cys Ser Arg
 35 40 45
 Arg Glu Ala Asp Arg Tyr Ile Glu Gln Gly Asn Val Phe Leu Asn Gly
 50 55 60
 Lys Arg Ala Thr Ile Gly Asp Gln Val Val Pro Gly Asp Val Val Lys
 65 70 75 80
 Val Asn Gly Gln Val Ile Glu Pro Arg Asp Ala Glu Asp Leu Val Phe
 85 90 95
 Ile Ala Leu Asn Lys Pro Val Gly Ile Val Ser Thr Thr Glu Asp Gly
 100 105 110
 Glu Arg Asp Asn Ile Val Asp Phe Val Asn His Ser Ser Arg Ile Phe
 115 120 125
 Pro Ile Gly Arg Leu Asp Lys Asp Ser Gln Gly Leu Ile Phe Leu Thr
 130 135 140
 Asn His Gly Asp Leu Val Asn Lys Ile Leu Arg Ala Gly Asn Asp His
 145 150 155 160
 Glu Lys Glu Tyr Ile Val Thr Val Asn Lys Pro Val Thr Asp Glu Phe
 165 170 175
 Ile Arg Gly Met Gly Ala Gly Val Pro Ile Leu Gly Thr Val Thr Lys
 180 185 190
 Lys Cys Lys Val Arg Lys Glu Ala Pro Phe Ala Phe Arg Ile Thr Leu
 195 200 205
 Val Gln Gly Leu Asn Arg Gln Ile Arg Arg Met Cys Glu Tyr Phe Gly
 210 215 220
 Tyr Glu Val Thr Lys Leu Glu Arg Thr Arg Ile Met Asn Val Ser Leu
 225 230 235 240
 Ser Gly Ile Pro Leu Gly Glu Trp Arg Asp Leu Thr Asp Asp Glu Leu
 245 250 255
 Ile Glu Leu Phe Lys Leu Ile Glu Asn Ser Ser Ser Glu Ala Lys Pro
 260 265 270
 Lys Ala Lys Ala Lys Pro Lys Thr Gln Thr Ile Lys Arg Pro Val Val
 275 280 285
 Lys Ala Pro Gln Ala Glu Glu Lys Gly Arg Gly Lys Pro Gly Asn Gly
 290 295 300
 Lys Arg Phe Thr Gln Pro Gly Arg Lys Lys Lys Gly Arg
 305 310 315

<210> 7627

<211> 75

<212> PRT

<213> *Enterobacter cloacae*

<400> 7627

```

Lys Ser Ile Thr Pro Ile Cys Tyr Pro Thr Thr Arg Ala Ser Arg Leu
1          5          10          15
Arg Arg Ala Phe Ser Thr Pro Ser Ile Ala Gly Tyr Leu Thr Thr Ala
          20          25          30
His Tyr Leu Leu Ser Gly Tyr Leu Ser Ser Ala Pro Ser Arg Ser Ala
          35          40          45
Ala Ser Val Pro Phe Arg Val Arg Trp Arg Lys Ile Ser Phe Pro Ile
          50          55          60
Ala Ala Gly Lys Ser Ser Cys Thr Val Ser
65          70          75

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<210> 7628

<211> 543

<212> PRT

<213> *Enterobacter cloacae*

<400> 7628

```

Phe Gly Ser Leu Met Arg Ser Arg Thr Met Thr Gln Gln Ala Thr Thr
1          5          10          15
Val Asp Glu Leu Thr Phe Thr Gln Pro Asn Gly Glu Gln Glu Gln Gln
          20          25          30
Val Leu Thr Thr Ala Glu Ala Val Glu Phe Leu Thr Glu Leu Val Thr Arg
          35          40          45
Phe Thr Pro Gln Arg Asn Lys Leu Leu Ala Ala Arg Ile His Gln Gln
          50          55          60
Gln Gly Ile Asp Asn Gly Lys Leu Pro Gly Phe Ile Ser Glu Thr Ala
65          70          75          80
Ser Ile Arg His Gly Asp Trp Lys Ile Arg Gly Ile Pro Glu Asp Leu
          85          90          95
Gln Asp Arg Arg Val Glu Ile Thr Gly Pro Val Glu Arg Lys Met Val
          100          105          110
Ile Asn Ala Met Asn Ala Asn Val Lys Val Phe Met Ala Asp Phe Glu
          115          120          125
Asp Ser Leu Ala Pro Asp Trp Gln Lys Val Ile Asp Gly Gln Ile Asn
          130          135          140
Leu Arg Asp Ala Val Asn Gly Thr Ile Ser Tyr Thr Asn Glu Ala Gly
145          150          155          160
Lys Ile Tyr Gln Leu Lys Pro Asn Pro Ala Val Leu Ile Cys Arg Val
          165          170          175
Arg Gly Leu His Leu Pro Glu Lys His Val Thr Trp Arg Gly Glu Ala
          180          185          190
Ile Pro Gly Ser Leu Phe Asp Phe Ala Leu Tyr Phe Phe His Asn His
          195          200          205
Lys Asn Leu Leu Ala Lys Gly Ser Gly Pro Tyr Phe Tyr Leu Pro Lys
210          215          220
Thr Gln Ser Trp Gln Glu Ala Ala Trp Trp Ser Glu Val Phe Ser Tyr
225          230          235          240
Ala Glu Asp Arg Phe Ser Leu Pro Arg Gly Thr Ile Lys Ala Thr Leu
          245          250          255
Leu Ile Glu Thr Leu Pro Ala Val Phe Gln Met His Glu Ile Leu His
          260          265          270
Ala Leu Arg Asp His Ile Val Gly Leu Asn Cys Gly Arg Trp Asp Tyr
275          280          285
Ile Phe Ser Tyr Ile Lys Thr Leu Lys Asn His Ala Asp Arg Val Leu
290          295          300

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Pro Asp Arg Gln Val Val Thr Met Asp Lys Pro Phe Leu Ser Ala Tyr
 305 310 315 320
 Ser Arg Leu Leu Ile Lys Thr Cys His Lys Arg Gly Ala Phe Ala Met
 325 330 335
 Gly Gly Met Ala Ala Phe Ile Pro Ser Lys Asp Ala Glu Arg Asn Asn
 340 345 350
 His Val Leu Asn Lys Val Lys Ala Asp Lys Glu Leu Glu Ala Arg Asn
 355 360 365
 Gly His Asp Gly Thr Trp Ile Ala His Pro Gly Leu Ala Asp Thr Ala
 370 375 380
 Met Glu Val Phe Asn Arg Val Leu Gly Asp Asn Lys Asn Gln Leu Phe
 385 390 395 400
 Val Thr Arg Glu Asp Asp Ala Pro Ile Ala Glu Glu Gln Leu Leu Ala
 405 410 415
 Pro Cys Ala Gly Glu Arg Thr Glu Glu Gly Met Arg Ala Asn Ile Arg
 420 425 430
 Val Ala Val Gln Tyr Ile Glu Ala Trp Ile Ser Gly Asn Gly Cys Val
 435 440 445
 Pro Ile Tyr Gly Leu Met Glu Asp Ala Ala Thr Ala Glu Ile Ser Arg
 450 455 460
 Thr Ser Ile Trp Gln Trp Ile His His Gln Lys Thr Leu Ser Asn Gly
 465 470 475 480
 Lys Pro Val Thr Lys Ala Leu Phe Arg Gln Met Leu Ala Glu Glu Met
 485 490 495
 Arg Val Ile Gln Asp Glu Leu Gly Glu His Arg Phe Ser Ser Gly Arg
 500 505 510
 Phe Asp Asp Ala Ala Arg Leu Met Glu Gln Ile Thr Thr Ser Asp Asp
 515 520 525
 Leu Ile Asp Phe Leu Thr Leu Pro Gly Tyr Arg Phe Leu Ala
 530 535 540

<210> 7629

<211> 549

<212> PRT

<213> Enterobacter cloacae

<400> 7629

Gly Gly Met Pro Thr Val Leu Thr Leu Leu His Leu Leu Ser Ala Val
 1 5 10 15
 Ala Leu Leu Val Trp Gly Thr His Ile Val Arg Thr Gly Val Met Arg
 20 25 30
 Val Phe Gly Ala Arg Leu Arg Thr Val Leu Ser Gly Ser Val Glu Lys
 35 40 45
 Lys Pro Leu Ala Phe Cys Ala Gly Ile Gly Val Thr Ala Leu Val Gln
 50 55 60
 Ser Ser Asn Ala Thr Thr Met Leu Val Thr Ser Phe Val Ala Gln Asp
 65 70 75 80
 Leu Val Ala Leu Ala Pro Ala Leu Val Ile Val Leu Gly Ala Asp Val
 85 90 95
 Gly Thr Ala Leu Met Ala Arg Ile Leu Thr Phe Asp Leu Ser Trp Leu
 100 105 110
 Ser Pro Leu Leu Ile Phe Ile Gly Val Ile Phe Phe Leu Gly Arg Lys
 115 120 125
 Gln Ser Arg Ala Gly Gln Leu Gly Arg Val Gly Ile Gly Leu Gly Leu
 130 135 140
 Ile Leu Leu Ala Leu Glu Leu Ile Val Gln Ala Val Thr Pro Ile Thr
 145 150 155 160
 Gln Ala Asn Gly Val Gln Val Ile Phe Ala Ser Leu Thr Gly Asp Ile
 165 170 175
 Met Leu Asp Ala Leu Ile Gly Ala Val Phe Ala Ile Val Ser Tyr Ser
 180 185 190

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Ser Leu Ala Ala Val Leu Leu Thr Ala Thr Leu Thr Ala Ala Gly Val
195 200 205
Ile Ser Phe Pro Val Ala Leu Cys Leu Val Ile Gly Ala Asn Leu Gly
210 215 220
Ser Gly Leu Leu Ala Met Leu Asn Asn Ser Ala Ala Asn Ala Ala Ala
225 230 235 240
Arg Arg Val Ala Leu Gly Ser Leu Leu Phe Lys Leu Val Gly Ser Leu
245 250 255
Ile Ile Leu Pro Phe Val His Pro Leu Ala Asn Leu Met Asp Asn Leu
260 265 270
Ser Leu Pro Lys Ala Glu Leu Val Ile Tyr Phe His Val Phe Tyr Asn
275 280 285
Leu Val Arg Cys Leu Ala Met Val Pro Phe Ala Ala Pro Met Ala Arg
290 295 300
Phe Cys Glu Arg Leu Ile Arg Asp Glu Pro Glu Leu Asp Ala Arg Leu
305 310 315 320
Lys Pro Lys His Leu Asp Thr Ser Val Leu Asp Thr Pro Ala Leu Ala
325 330 335
Ile Ala Asn Ala Ala Arg Glu Thr Leu Arg Met Gly Asp Ala Met Glu
340 345 350
Thr Met Leu Glu Gly Leu Gln Lys Val Met His Gly Glu Pro Arg Glu
355 360 365
Glu Lys Glu Leu Arg Arg Leu Ala Asp Asp Ile Asn Val Leu Tyr Thr
370 375 380
Ala Ile Lys Leu Tyr Leu Ala Arg Ile Pro Gln Asp Glu Leu Ala Glu
385 390 395 400
Glu Glu Ser Arg Arg Trp Ala Glu Ile Ile Glu Met Ser Leu Asn Leu
405 410 415
Glu Gln Ala Ser Asp Ile Val Glu Arg Met Gly Ser Glu Ile Ala Asp
420 425 430
Lys Ser Leu Ala Ala Arg Arg Ala Phe Ser Val Glu Gly Leu Lys Glu
435 440 445
Leu Glu Ala Leu His Glu Gln Leu Val Ser Asn Leu Lys Leu Ala Met
450 455 460
Ser Val Phe Phe Ser Ser Asp Val Pro Ser Ala Arg Arg Leu Arg Arg
465 470 475 480
Asn Lys His Arg Phe Arg Ile Leu Asn Arg Arg Tyr Ser His Ala His
485 490 495
Val Glu Arg Leu His Gln Gln Asn Val Gln Ser Ile Glu Thr Ser Ser
500 505 510
Leu His Leu Gly Leu Leu Gly Asp Met Lys Arg Leu Asn Ser Leu Phe
515 520 525
Cys Ala Val Ala Tyr Ser Val Met Glu Gln Pro Asp Glu Asp Asp Glu
530 535 540
Arg Asp Glu Tyr
545

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<210> 7630

<211> 144

<212> PRT

<213> *Enterobacter cloacae*

<400> 7630

```

Ala Pro Phe Leu Ser Gly Glu Phe Ile Met Ala Lys Glu Phe Gly Arg
1 5 10 15
Pro Gln Arg Val Ala Gln Glu Met Gln Lys Glu Ile Ala Leu Ile Leu
20 25 30
Gln Arg Glu Ile Lys Asp Pro Arg Val Gly Met Met Thr Thr Val Ser
35 40 45
Gly Val Glu Met Ser Arg Asp Leu Ala Tyr Ala Lys Val Phe Val Thr
50 55 60

```

Phe Leu Asn Asp Gln Asp Glu Asp Ala Val Lys Asn Gly Ile Lys Ala
 65 70 75 80
 Leu Gln Glu Ala Ser Gly Phe Ile Arg Ser Leu Leu Gly Lys Ala Met
 85 90 95
 Arg Leu Arg Ile Val Pro Glu Leu Thr Phe Phe Tyr Asp Asn Ser Leu
 100 105 110
 Val Glu Gly Met Arg Met Ser Asn Leu Val Thr Ser Val Val Lys His
 115 120 125
 Asp Asp Glu Arg Arg Val Asn Pro Ala Asp Asp Ser Lys Glu Asp
 130 135 140

<210> 7631

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 7631

Arg Lys Val Thr Lys Gly Asn Ser Ser Val Trp Ala Lys Trp Thr Ala
 1 5 10 15
 Lys Gly Val Trp Arg Arg Val Val Trp Ser Ser Asn Ile Arg Ser Lys
 20 25 30
 Arg Asp Gly Asp Asn Ala Leu Pro Cys Asp Lys Gln Gly Arg Arg Val
 35 40 45
 Glu Tyr Arg Arg Leu Thr Pro Gly Lys Leu Phe Asn Asn Leu Arg Gly
 50 55 60
 Val His Gly Ile Ala Glu Leu Glu Ile Gly Ile Leu Thr Phe Phe Ile
 65 70 75 80
 Leu Trp Ser Leu Lys Met Ser Leu Ser Val Glu Ala Lys Ala Lys Ile
 85 90 95
 Val Ser Glu Phe Gly Arg Gly Thr Asn Asp Ser Gly Ser Thr Glu Val
 100 105 110
 Gln Val Ala Leu Leu Thr Ala Gln Ile Asn His Leu Gln Gly His Phe
 115 120 125
 Ala Glu His Lys Lys Asp His His Ser Arg Arg Gly Leu Leu Arg Met
 130 135 140
 Val Ser Gln Arg Arg Lys Leu Leu Asp Tyr Leu Lys Arg Lys Asp Val
 145 150 155 160
 Ala Arg Tyr Thr Ala Leu Ile Glu Arg Leu Gly Leu Arg Arg
 165 170 175

<210> 7632

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7632

Gln Asp Tyr Ser Tyr Gln Gly Val Lys Leu Val Leu Asp Lys Leu Arg
 1 5 10 15
 Ser Arg Leu Val Gln Phe Gly Pro Ser Met Leu Ser Val Pro Val Lys
 20 25 30
 Leu Ala Pro Phe Ala Leu Lys Arg Gln Val Leu Glu Gln Val Leu Ser
 35 40 45
 Trp Gln Phe Arg Gln Ala Leu Gln Asp Gly Glu Leu Glu Phe Leu Glu
 50 55 60
 Gly Arg Trp Leu Lys Ile Glu Val Arg Asp Ile Gly Leu Arg Trp Phe
 65 70 75 80
 Thr Ser Val Glu Asn Asp Arg Leu Ile Val Arg Glu Thr Ala Glu Ala
 85 90 95
 Asp Val Ser Phe Ser Ala Asp Ala Ser Asp Leu Leu Met Ile Ala Ala
 100 105 110
 Arg Lys Gln Asp Pro Asp Thr Leu Phe Phe Gln Arg Arg Leu Val Ile

115				120				125							
Glu	Gly	Asp	Thr	Glu	Leu	Gly	Leu	Tyr	Val	Lys	Asn	Leu	Met	Asp	Ala
130				135				140							
Ile	Glu	Leu	Glu	Gln	Met	Pro	Lys	Ala	Leu	Arg	Met	Met	Leu	Met	Gln
145				150				155				160			
Met	Ala	Asp	Phe	Val	Glu	Ala	Gly	Leu	Lys	Thr	Pro	Pro	Asp	Ser	Lys
165				170				175							
His	Thr	Ser	Val	Gly	Glu	Pro	Cys								
180				185											

<210> 7633

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 7633

[illegible]

<210> 7634

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 7634

Thr	Ala	Arg	Arg	Val	Arg	Leu	Pro	Phe	Ala	Leu	Arg	Ala	Gly	Gly	Gly
1				5					10					15	
Leu	Ile	Ile	Arg	Gln	Asp	Ala	Leu	Leu	Ser	Arg	Arg	Gly	Thr	Gly	Arg
			20					25					30		
Ser	Ser	Asn	Ser	Cys	Leu	Arg	Glu	Trp	Glu	Met	Lys	Pro	Phe	Leu	Arg
		35					40					45			
Trp	Cys	Phe	Val	Ala	Thr	Ala	Leu	Thr	Leu	Ala	Gly	Cys	Ser	Asn	Ser
						55					60				
Ala	Trp	Arg	Lys	Ser	Glu	Val	Leu	Ala	Val	Pro	Leu	Gln	Pro	Thr	Leu
65					70				75						80
Gln	Gln	Glu	Val	Ile	Leu	Ala	Arg	Met	Glu	Gln	Ile	Leu	Ala	Ser	Arg
				85					90					95	
Ala	Leu	Thr	Asp	Asp	Glu	Arg	Ala	Gln	Leu	Leu	Tyr	Glu	Arg	Gly	Val
			100					105					110		
Leu	Tyr	Asp	Ser	Leu	Gly	Leu	Arg	Ala	Leu	Ala	Arg	Asn	Asp	Phe	Ser
		115					120					125			

Gln Ala Leu Ala Ile Arg Pro Asp Met Pro Glu Val Phe Asn Tyr Leu
 130 135 140
 Gly Ile Tyr Leu Thr Gln Ala Gly Asn Phe Asp Ala Ala Tyr Glu Ala
 145 150 155 160
 Phe Asp Ser Val Leu Glu Leu Asp Pro Thr Tyr Asn Tyr Ala His Leu
 165 170 175
 Asn Arg Gly Ile Ala Leu Tyr Tyr Gly Gly Arg Asp Lys Leu Ala Gln
 180 185 190
 Asp Asp Leu Leu Ala Phe Tyr Gln Asp Asp Pro Asn Asp Pro Phe Arg
 195 200 205
 Ser Leu Trp Leu Tyr Ile Val Glu Gln Lys Leu Asp Glu Lys Gln Ala
 210 215 220
 Lys Glu Ala Leu Lys Gln Arg Phe Glu Lys Ser Asp Lys Glu Gln Trp
 225 230 235 240
 Gly Trp Asn Ile Val Glu Phe Tyr Leu Gly Asn Ile Ser Glu Ala Thr
 245 250 255
 Leu Met Glu Arg Leu Lys Ala Asp Ala Thr Asp Asn Thr Ser Leu Ala
 260 265 270
 Glu His Leu Ser Glu Thr Asn Phe Tyr Leu Gly Lys Tyr Tyr Leu Ser
 275 280 285
 Leu Gly Asp Met Asp Ser Ala Thr Ala Leu Phe Lys Leu Ala Val Ala
 290 295 300
 Asn Asn Val His Asn Phe Val Glu His Arg Tyr Ala Leu Leu Glu Leu
 305 310 315 320
 Ser Leu Leu Gly Gln Glu Gln Asp Asp Leu Ala Glu Ser Asp Gln Gln
 325 330 335

<210> 7635

<211> 645

<212> PRT

<213> Enterobacter cloacae

<400> 7635

Val Asp Trp Pro Pro Leu Ile Ser Arg His Leu Tyr Tyr Met Ala Glu
 1 5 10 15
 Phe Glu Thr Thr Phe Ala Asp Leu Gly Leu Lys Ala Pro Ile Leu Glu
 20 25 30
 Ala Leu Asn Asp Leu Gly Tyr Glu Lys Pro Ser Pro Ile Gln Ala Glu
 35 40 45
 Cys Ile Pro His Leu Leu Ser Gly Arg Asp Val Leu Gly Met Ala Gln
 50 55 60
 Thr Gly Ser Gly Lys Thr Ala Ala Phe Ser Leu Pro Leu Leu Asn Asn
 65 70 75 80
 Ile Asp Pro Asp Leu Arg Ala Pro Gln Ile Leu Val Leu Ala Pro Thr
 85 90 95
 Arg Glu Leu Ala Val Gln Val Ala Glu Ala Met Thr Glu Phe Ser Lys
 100 105 110
 His Met Arg Gly Val Asn Val Val Ala Leu Tyr Gly Gly Gln Arg Tyr
 115 120 125
 Asp Val Gln Leu Arg Ala Leu Arg Gln Gly Pro Gln Ile Val Val Gly
 130 135 140
 Thr Pro Gly Arg Leu Leu Asp His Leu Lys Arg Gly Thr Leu Asp Leu
 145 150 155 160
 Ser Lys Leu Ser Gly Leu Val Leu Asp Glu Ala Asp Glu Met Leu Arg
 165 170 175
 Met Gly Phe Ile Glu Asp Val Glu Thr Ile Met Ala Gln Ile Pro Glu
 180 185 190
 Gly His Gln Thr Ala Leu Phe Ser Ala Thr Met Pro Glu Ala Ile Arg
 195 200 205

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Arg Ile Thr Arg Arg Phe Met Lys Glu Pro Gln Glu Val Arg Ile Gln
210 215 220
Ser Ser Val Thr Thr Arg Pro Asp Ile Ser Gln Ser Tyr Trp Ser Val
225 230 235
Tyr Gly Met Arg Lys Asn Glu Ala Leu Val Arg Phe Leu Glu Ala Glu
245 250 255
Asp Phe Asp Ala Ala Ile Ile Phe Val Arg Thr Lys Asn Ala Thr Leu
260 265 270
Glu Val Ala Glu Ala Leu Glu Arg Ser Gly Tyr Asn Ser Ala Ala Leu
275 280 285
Asn Gly Asp Met Asn Gln Ala Leu Arg Glu Gln Thr Leu Glu Arg Leu
290 295 300
Lys Asp Gly Arg Leu Asp Ile Leu Ile Ala Thr Asp Val Ala Ala Arg
305 310 315
Gly Leu Asp Val Glu Arg Ile Ser Leu Val Val Asn Tyr Asp Ile Pro
325 330 335
Met Asp Ser Glu Ser Tyr Ile His Arg Ile Gly Arg Thr Gly Arg Ala
340 345 350
Gly Arg Ala Gly Arg Ala Leu Leu Phe Val Glu Asn Arg Glu Arg Arg
355 360 365
Leu Leu Arg Asn Ile Glu Arg Ser Met Lys Leu Thr Ile Pro Glu Ala
370 375 380
Glu Leu Pro Asn Ala Lys Leu Leu Gly Lys Arg Arg Leu Glu Lys Phe
385 390 395
Ala Ala Arg Val Gln Gln Gln Leu Glu Ser Ile Asp Leu Asp Gln Tyr
405 410 415
Arg Ala Leu Leu Ser Gln Ile Gln Pro Val Ala Glu Gly Glu Glu Leu
420 425 430
Asp Met Glu Thr Leu Ala Ala Ala Leu Lys Met Ala Gln Gly Glu
435 440 445
Arg Ser Leu Ile Val Pro Pro Asp Ala Pro Met Arg Pro Lys Arg Glu
450 455 460
Phe Arg Asp Arg Asp Asp Arg Phe Glu Arg Arg Gly Asp Arg Asn Asp
465 470 475
Arg Gly Pro Arg Gly Asp Arg Pro Glu Arg Gly Gly Glu Asp Arg Pro
485 490 495
Arg Arg Glu Arg Arg Asp Ala Gly Glu Met Glu Leu Tyr Arg Ile Glu
500 505 510
Val Gly Arg Asp Asp Gly Val Glu Val Arg His Ile Val Gly Ala Ile
515 520 525
Ala Asn Glu Gly Asp Ile Ser Ser Arg Tyr Ile Gly Asn Ile Lys Leu
530 535 540
Phe Gly Ser His Ser Thr Ile Glu Leu Pro Lys Gly Met Pro Gly Glu
545 550 555
Val Leu Gln His Phe Thr Arg Thr Arg Ile Leu Asn Lys Pro Met Asn
565 570 575
Met Gln Leu Leu Gly Asp Ala Gln Pro Arg Pro Asp Arg Gly Gly Glu
580 585 590
Arg Arg Gly Gly Gly Arg Gly Phe Gly Gly Glu Arg Arg Glu Gly Gly
595 600 605
Arg Ser Glu Gly Arg Gly Gly Glu Gly Arg Arg Phe Ser Gly Glu Arg
610 615 620
Arg Glu Asn Arg Gly Pro Arg Arg Glu Glu Gly Ala Ser Arg Arg Arg
625 630 635
Phe Gly Asp Ala
645

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<210> 7636

<211> 241

<212> PRT

<213> Enterobacter cloacae

<400> 7636

```

Ile Leu Thr Gly Asn Arg Leu Leu Ser Val Val Glu Gln Ala Gln Asn
1      5      10
Ala Asn Gly Gln Phe Cys Lys Gly Asp Lys Met Ser Gln Val Leu Ile
      20      25      30
Thr Gly Ala Thr Gly Leu Val Gly Gly His Leu Leu Arg Leu Ile
      35      40      45
Gln Asp Arg His Ile Asn Tyr Ile Ala Ala Pro Thr Arg Arg Pro Leu
      50      55      60
Leu Asp Ile Thr Gly Val Tyr Asn Pro His Asp Pro Gln Leu Thr Asp
65      70      75      80
Ala Leu Ala Gln Val Gln Asp Pro Ile Asp Ile Ala Phe Cys Cys Leu
      85      90      95
Gly Thr Thr Arg Arg Glu Ala Gly Ser Lys Glu Ala Phe Val His Ala
      100      105      110
Asp Tyr Thr Leu Val Val Asp Thr Ala Leu Thr Ala Lys Lys Leu Gly
      115      120      125
Ala Lys His Phe Leu Val Val Ser Ala His Gly Ala Asn Ala Gly Ser
      130      135      140
Pro Phe Phe Tyr Asn Gln Val Lys Gly Lys Met Glu Glu Ala Leu Ile
145      150      155      160
Ala Gln Lys Trp Glu Arg Leu Thr Ile Ala Arg Pro Ser Met Leu Met
      165      170      175
Gly His Arg Asp Glu Arg Arg Phe Asn Glu Ser Phe Phe Ala Pro Leu
      180      185      190
Phe Arg Ile Leu Pro Gly Asn Trp Lys Ser Ile Glu Ala Arg Asp Val
      195      200      205
Ala Leu Ala Met Leu Lys Glu Ala Leu Ala Pro Ser Gln Glu Gly Val
210      215      220
Asn Ile Ile Pro Ser Ala Lys Leu Arg Glu Ile Ala Gln Gly Glu Ala
225      230      235      240

```

<210> 7637

<211> 506

<212> PRT

<213> *Enterobacter cloacae*

<400> 7637

```

Gly Glu Lys Pro Ala Met Asn Lys Glu Ile Leu Ala Val Val Glu Ala
1      5      10      15
Val Ser Asn Glu Lys Ser Leu Pro Arg Glu Lys Ile Phe Glu Ala Leu
      20      25      30
Glu Ser Ala Leu Ala Thr Ala Thr Lys Lys Lys Tyr Glu Gln Glu Ile
      35      40      45
Asp Val Arg Val Glu Ile Asp Arg Lys Ser Gly Asp Phe Asp Thr Phe
      50      55      60
Arg Arg Trp Val Ile Val Glu Glu Val Thr Gln Pro Thr Lys Glu Ile
65      70      75      80
Thr Leu Glu Ala Ala Arg Phe Glu Asp Glu Ser Leu Asn Val Gly Asp
      85      90      95
Tyr Val Glu Asp Gln Ile Glu Ser Val Thr Phe Asp Arg Ile Thr Thr
      100      105      110
Gln Thr Ala Lys Gln Val Ile Val Gln Lys Val Arg Glu Ala Glu Arg
      115      120      125
Ala Leu Val Val Asp Gln Phe Arg Asp Gln Glu Gly Glu Ile Ile Thr
130      135      140
Gly Val Val Lys Lys Val Asn Arg Asp Asn Ile Ser Leu Glu Ile Lys
145      150      155      160

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Ser Glu Gly Leu Pro Gly Asn Ala Glu Ala Val Ile Leu Arg Glu Asp
 165 170 175
 Met Leu Pro Arg Glu Asn Phe Arg Pro Gly Asp Arg Ile Arg Gly Val
 180 185 190
 Leu Tyr Ala Val Arg Pro Glu Ala Arg Gly Ala Gln Leu Phe Val Thr
 195 200 205
 Arg Ser Lys Pro Glu Met Leu Val Glu Leu Phe Arg Ile Glu Val Pro
 210 215 220
 Glu Ile Gly Glu Glu Val Ile Glu Ile Lys Ala Ala Arg Asp Pro
 225 230 235 240
 Gly Ser Arg Ala Lys Ile Ala Val Lys Thr Asn Asp Lys Arg Ile Asp
 245 250 255
 Pro Val Gly Ala Cys Val Gly Met Arg Gly Ala Arg Val Gln Ala Val
 260 265 270
 Ser Thr Glu Leu Gly Gly Glu Arg Ile Asp Ile Val Leu Trp Asp Asp
 275 280 285
 Asn Pro Ala Gln Phe Val Ile Asn Ala Met Ala Pro Ala Asp Val Ala
 290 295 300
 Ser Ile Val Val Asp Glu Asp Lys His Thr Met Asp Ile Ala Val Glu
 305 310 315 320
 Ala Gly Asn Leu Ala Gln Ala Ile Gly Arg Asn Gly Gln Asn Val Arg
 325 330 335
 Leu Ala Ser Gln Leu Ser Gly Trp Glu Leu Asn Val Met Thr Val Asp
 340 345 350
 Asp Leu Gln Ala Lys His Gln Ala Glu Ala His Ala Ala Ile Asp Thr
 355 360 365
 Phe Thr Lys Tyr Leu Asp Ile Asp Glu Asp Phe Ala Thr Val Leu Val
 370 375 380
 Glu Glu Gly Phe Ser Thr Leu Glu Glu Leu Ala Tyr Val Pro Met Lys
 385 390 395 400
 Glu Leu Leu Glu Ile Asp Gly Leu Asp Glu Pro Thr Val Glu Ala Leu
 405 410 415
 Arg Glu Arg Ala Lys Asn Ala Leu Thr Thr Leu Ala Leu Ala Gln Glu
 420 425 430
 Glu Ser Leu Gly Asp Lys Lys Pro Ala Asp Asp Leu Leu Asn Leu Glu
 435 440 445
 Gly Leu Asp Arg Ala Ile Ala Phe Lys Leu Ala Ala Arg Gly Val Cys
 450 455 460
 Thr Leu Glu Asp Leu Ala Glu Gln Gly Val Asp Asp Leu Ala Asp Ile
 465 470 475 480
 Glu Gly Leu Thr Asp Glu Lys Ala Gly Glu Leu Ile Met Ala Ala Arg
 485 490 495
 Asn Ile Cys Trp Phe Gly Asp Glu Ala
 500 505

<210> 7638

<211> 903

<212> PRT

<213> *Enterobacter cloacae*

<400> 7638

Thr Val Ala Gly Arg Asn Ser Met Thr Asp Val Thr Val Lys Ser Leu
 1 5 10 15
 Ala Ala Glu Ile Gln Thr Ser Val Asp Arg Leu Val Gln Gln Phe Ala
 20 25 30
 Asp Ala Gly Ile Pro Lys Ser Ala Asp Asp Ser Val Thr Ala Gln Glu
 35 40 45
 Lys Gln Thr Leu Leu Ala His Leu Asn Arg Glu His Gly Ser Thr Pro
 50 55 60
 Asp Lys Leu Thr Leu Gln Arg Lys Thr Arg Ser Thr Leu Asn Ile Pro
 65 70 75 80

Gly Thr Gly Gly Lys Ser Lys Ser Val Gln Ile Glu Val Arg Lys Thr
 85 90
 Arg Thr Phe Val Lys Arg Asp Pro Gln Glu Ala Glu Arg Leu Ala Ala
 100 105
 Glu Glu Gln Ala Gln Arg Glu Ala Glu Glu Gln Ala Gln Arg Glu Ala
 115 120 125
 Glu Ala Thr Ala Lys Arg Glu Ala Glu Leu Lys Ala Glu Arg Glu Ala
 130 135 140
 Ala Glu Lys Ala Lys Arg Asp Ala Gly Glu Lys Ala Lys Arg Asp Ala
 145 150 155 160
 Ala Glu Lys Asp Lys Val Ser Asn Gln Gln Thr Asp Glu Met Thr Lys
 165 170 175
 Thr Ala Gln Ala Glu Lys Ala Arg Arg Glu Asn Glu Ala Ala Glu Leu
 180 185 190
 Lys Arg Lys Ala Glu Glu Glu Ala Arg Arg Lys Leu Glu Glu Glu Ala
 195 200 205
 Arg Arg Val Ala Glu Glu Ala Arg Arg Met Ala Glu Glu Asn Glu Lys
 210 215 220
 Asn Gly Val Asn Thr Ala Glu Pro Thr Glu Asp Thr Ser Asp Tyr His
 225 230 235 240
 Val Thr Thr Ser Gln His Ala Arg Gln Ala Glu Asp Asp Asn Asp Arg
 245 250 255
 Glu Val Glu Gly Gly Arg Gly Arg Thr Arg Ser Ala Lys Ala Ala Arg
 260 265 270
 Pro Ala Lys Lys Gly Asn Lys His Ala Glu Ser Lys Ala Asp Arg Glu
 275 280 285
 Glu Ala Arg Ala Ala Val Arg Gly Gly Lys Gly Lys Arg Lys Gly
 290 295 300
 Ser Ala Leu Gln Gln Gly Phe Gln Lys Pro Ala Gln Ala Val Asn Arg
 305 310 315 320
 Asp Val Val Ile Gly Glu Thr Ile Thr Val Gly Glu Leu Ala Asn Lys
 325 330 335
 Met Ala Val Lys Gly Ser Gln Val Ile Lys Ala Met Met Lys Leu Gly
 340 345 350
 Ala Met Ala Thr Ile Asn Gln Val Ile Asp Gln Glu Thr Ala Gln Leu
 355 360 365
 Val Ala Glu Glu Met Gly His Lys Val Ile Leu Arg Arg Glu Asn Glu
 370 375 380
 Leu Glu Glu Ala Val Met Ser Asp Arg Asp Thr Gly Ala Ala Ala Glu
 385 390 395 400
 Pro Arg Ala Pro Val Val Thr Ile Met Gly His Val Asp His Gly Lys
 405 410 415
 Thr Ser Leu Leu Asp Tyr Ile Arg Ser Thr Lys Val Ala Ser Gly Glu
 420 425 430
 Ala Gly Gly Ile Thr Gln His Ile Gly Ala Tyr His Val Glu Thr Glu
 435 440 445
 Asn Gly Met Ile Thr Phe Leu Asp Thr Pro Gly His Ala Ala Phe Thr
 450 455 460
 Ser Met Arg Ala Arg Gly Ala Gln Ala Thr Asp Ile Val Val Leu Val
 465 470 475 480
 Val Ala Ala Asp Asp Gly Val Met Pro Gln Thr Ile Glu Ala Ile Gln
 485 490 495
 His Ala Lys Ala Ala Gln Val Pro Leu Val Val Ala Val Asn Lys Ile
 500 505 510
 Asp Lys Pro Glu Ala Asp Met Asp Arg Val Lys Asn Glu Leu Ser Gln
 515 520 525
 Tyr Gly Val Met Pro Glu Glu Trp Gly Gly Glu Ala Gln Phe Ile Pro
 530 535 540
 Val Ser Ala Lys Ala Gly Thr Gly Ile Asp Asp Leu Leu Asn Ala Ile
 545 550 555 560
 Leu Leu Gln Ala Glu Val Leu Glu Leu Lys Ala Val Arg Lys Gly Met

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                    565                    570                    575
Ala Ser Gly Ala Val Ile Glu Ser Phe Leu Asp Lys Gly Arg Gly Pro
                    580                    585                    590
Val Ala Thr Val Leu Val Arg Glu Gly Thr Leu His Lys Gly Asp Ile
                    595                    600                    605
Val Leu Cys Gly Phe Glu Tyr Gly Arg Val Arg Ala Met Arg Asn Glu
                    610                    615                    620
Leu Gly Gln Glu Val Leu Glu Ala Gly Pro Ser Ile Pro Val Glu Ile
625                    630                    635                    640
Leu Gly Leu Ser Gly Val Pro Ala Ala Gly Asp Glu Val Thr Val Val
                    645                    650                    655
Arg Asp Glu Lys Lys Ala Arg Glu Val Ala Leu Tyr Arg Gln Gly Lys
                    660                    665                    670
Phe Arg Glu Val Lys Leu Ala Arg Gln Lys Ser Lys Leu Glu Asn
                    675                    680                    685
Met Phe Ala Asn Met Thr Glu Gly Glu Val His Glu Val Asn Val Val
                    690                    695                    700
Leu Lys Ala Asp Val Gln Gly Ser Val Glu Ala Ile Ser Asp Ser Leu
705                    710                    715                    720
Leu Lys Leu Ser Thr Asp Glu Val Lys Val Lys Ile Ile Gly Ser Gly
                    725                    730                    735
Val Gly Gly Ile Thr Glu Thr Asp Ala Thr Leu Ala Ala Ser Asn
                    740                    745                    750
Ala Ile Leu Val Gly Phe Asn Val Arg Ala Asp Ala Ser Ala Arg Lys
                    755                    760                    765
Val Ile Asp Ala Glu Ser Leu Asp Leu Arg Tyr Tyr Ser Val Ile Tyr
                    770                    775                    780
Asn Leu Ile Asp Glu Val Lys Ala Ala Met Ser Gly Met Leu Ser Pro
785                    790                    795                    800
Glu Leu Lys Gln Gln Ile Ile Gly Leu Ala Glu Val Arg Asp Val Phe
                    805                    810                    815
Lys Ser Pro Lys Phe Gly Ala Ile Ala Gly Cys Met Val Thr Glu Gly
                    820                    825                    830
Thr Ile Lys Arg His Asn Pro Ile Arg Val Leu Arg Asp Asn Val Val
                    835                    840                    845
Ile Tyr Glu Gly Glu Leu Glu Ser Leu Arg Arg Phe Lys Asp Asp Val
                    850                    855                    860
Asn Glu Val Arg Asn Gly Met Glu Cys Gly Ile Gly Val Lys Asn Tyr
865                    870                    875                    880
Asn Asp Val Arg Val Gly Asp Met Ile Glu Val Phe Glu Ile Ile Glu
                    885                    890                    895
Ile Gln Arg Thr Ile Ala
900

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<210> 7639

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 7639

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Pro Gly Gly Arg Gln Gln Gly Gly Leu Met Ser Arg Pro Arg Arg Arg
1                    5                    10                    15
Gly Arg Asp Val His Gly Val Leu Leu Asp Lys Pro Gln Gly Ala
20                    25                    30
Ser Ser Asn Asp Val Leu Gln Lys Val Lys Arg Ile Tyr Asn Ala Asn
35                    40                    45
Arg Ala Gly His Thr Gly Ala Leu Asp Pro Leu Ala Thr Gly Met Leu
50                    55                    60
Pro Ile Cys Leu Gly Glu Ala Thr Lys Phe Ser Gln Tyr Leu Leu Asp
65                    70                    75                    80
Ser Asp Lys Arg Tyr Arg Val Ile Ala Lys Leu Gly Gln Arg Thr Asp

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      85              90              95
Thr Ser Asp Ala Asp Gly Gln Val Val Glu Glu Arg Pro Val Thr Phe
      100              105              110
Ser Ala Glu Gln Leu Asp Ala Ala Leu Asp Ser Phe Arg Gly Asp Thr
      115              120              125
Leu Gln Val Pro Ser Met Tyr Ser Ala Leu Lys Tyr Gln Gly Lys Lys
      130              135              140
Leu Tyr Glu Tyr Ala Arg Gln Gly Ile Glu Val Pro Arg Glu Ala Arg
      145              150              155
Pro Ile Thr Val Tyr Glu Leu Leu Phe Ile Arg His Glu Gly Asp Glu
      165              170              175
Leu Glu Leu Glu Val His Cys Ser Lys Gly Thr Tyr Ile Arg Thr Ile
      180              185              190
Ile Asp Asp Leu Gly Glu Lys Leu Gly Cys Gly Ala His Val Ile Tyr
      195              200              205
Leu Arg Arg Leu Ala Val Ser Lys Tyr Pro Val Glu Arg Met Val Thr
      210              215              220
Leu Glu His Leu His Ala Leu Ile Glu Gln Ala Gln Ala Gln Gly Val
      225              230              235
Ala Pro Ala Asp Leu Leu Asp Pro Leu Leu Met Pro Met Asp Ser Pro
      245              250              255
Ala Val Asp Phe Pro Val Val Asn Leu Pro Leu Thr Ser Ser Val Tyr
      260              265              270
Phe Lys Asn Gly Asn Pro Val Arg Thr Thr Gly Ala Pro Leu Glu Gly
      275              280              285
Leu Val Arg Val Thr Glu Gly Asp Glu Gly Lys Phe Ile Gly Met Gly
      290              295              300
Glu Met Asp Gly Glu Gly Arg Val Ala Pro Arg Arg Leu Val Val Glu
      305              310              315
Tyr Pro Val Glu Ala
      325

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<210> 7640

<211> 740

<212> PRT

<213> Enterobacter cloacae

<400> 7640

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Ser Arg Gly Cys Glu Glu Arg Val Lys Ser Ser Ala His Leu Arg
1      5      10
Cys Ala Phe Lys His Leu Arg Lys Asp Arg Thr Leu Leu Asn Pro Ile
      20      25      30
Val Arg Lys Phe Gln Tyr Gly Gln His Thr Val Thr Leu Glu Thr Gly
      35      40      45
Met Met Ala Arg Gln Ala Thr Ala Ala Val Met Val Ser Met Asp Asp
      50      55      60
Thr Ala Val Phe Val Thr Val Val Gly Gln Lys Lys Ala Lys Pro Gly
      65      70      75      80
Gln Asp Phe Phe Pro Leu Thr Val Asn Tyr Gln Glu Arg Thr Tyr Ala
      85      90      95
Ala Gly Lys Ile Pro Gly Gly Phe Phe Arg Arg Glu Gly Arg Pro Ser
      100      105      110
Glu Gly Glu Thr Leu Ile Ala Arg Leu Ile Asp Arg Pro Val Arg Pro
      115      120      125
Leu Phe Pro Glu Gly Phe Val Asn Glu Val Gln Val Ile Ala Thr Val
      130      135      140
Val Ser Val Asn Pro Gln Val Asn Pro Asp Ile Val Ala Met Ile Gly
      145      150      155      160
Ala Ser Ala Ala Leu Ser Leu Ser Gly Ile Pro Phe Asn Gly Pro Ile
      165      170      175
Gly Ala Ala Arg Val Gly Tyr Ile Asn Asp Gln Tyr Val Leu Asn Pro

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Thr	Gln	Glu	Glu	Leu	Lys	Glu	Ser	Lys	Leu	Asp	Leu	Val	Val	Ala	Gly
180	195						200				205				
Thr	Glu	Ala	Ala	Val	Leu	Met	Val	Glu	Ser	Glu	Ala	Glu	Leu	Leu	Ser
210						215					220				
Glu	Asp	Gln	Met	Leu	Gly	Ala	Val	Val	Phe	Gly	His	Asp	Gln	Gln	Gln
225					230					235					240
Val	Val	Ile	Gln	Asn	Ile	Asn	Asp	Leu	Val	Lys	Glu	Ala	Gly	Lys	Pro
				245					250					255	
Arg	Trp	Asp	Trp	Gln	Pro	Glu	Ala	Ala	Asn	Asp	Ala	Leu	Asn	Ala	Arg
				260				265					270		
Val	Ala	Ala	Leu	Ala	Glu	Ser	Arg	Leu	Ser	Asp	Ala	Tyr	Arg	Ile	Thr
				275			280					285			
Asp	Lys	Gln	Glu	Arg	Tyr	Ala	Gln	Val	Asp	Val	Ile	Lys	Ser	Glu	Val
290						295					300				
Thr	Ala	Thr	Leu	Val	Ala	Glu	Asp	Glu	Thr	Leu	Asp	Ala	Asn	Glu	Ile
305					310					315					320
Gly	Glu	Ile	Leu	His	Ala	Ile	Glu	Lys	Asn	Val	Val	Arg	Ser	Arg	Val
				325					330					335	
Leu	Ala	Gly	Glu	Pro	Arg	Ile	Asp	Gly	Arg	Glu	Lys	Asp	Met	Ile	Arg
				340				345					350		
Gly	Leu	Asp	Val	Arg	Thr	Gly	Val	Leu	Pro	Arg	Thr	His	Gly	Ser	Ala
		355					360				365				
Leu	Phe	Thr	Arg	Gly	Glu	Thr	Gln	Ala	Leu	Val	Thr	Ala	Thr	Leu	Gly
		370				375					380				
Thr	Ala	Arg	Asp	Ala	Gln	Ile	Ile	Asp	Glu	Leu	Met	Gly	Glu	Arg	Thr
385					390				395						400
Asp	Ser	Phe	Leu	Phe	His	Tyr	Asn	Phe	Pro	Pro	Tyr	Ser	Val	Gly	Glu
				405					410					415	
Thr	Gly	Met	Val	Gly	Ser	Pro	Lys	Arg	Glu	Ile	Gly	His	Gly	Arg	
				420				425					430		
Leu	Ala	Lys	Arg	Gly	Val	Leu	Ala	Val	Met	Pro	Glu	Ala	Asp	Lys	Phe
		435					440					445			
Pro	Tyr	Thr	Val	Arg	Val	Val	Ser	Glu	Ile	Thr	Glu	Ser	Asn	Gly	Ser
		450				455					460				
Ser	Ser	Met	Ala	Ser	Val	Cys	Gly	Ala	Ser	Leu	Ala	Leu	Met	Asp	Ala
465					470				475						480
Gly	Val	Pro	Ile	Lys	Ala	Ala	Val	Ala	Gly	Ile	Ala	Met	Gly	Leu	Val
				485					490				495		
Lys	Glu	Gly	Asp	Asn	Tyr	Val	Val	Leu	Ser	Asp	Ile	Leu	Gly	Asp	Glu
			500					505					510		
Asp	His	Leu	Gly	Asp	Met	Asp	Phe	Lys	Val	Ala	Gly	Ser	Arg	Asp	Gly
		515					520					525			
Ile	Ser	Ala	Leu	Gln	Met	Asp	Ile	Lys	Ile	Glu	Gly	Ile	Thr	Lys	Glu
		530				535					540				
Ile															

Glu Gly Leu Val His Ile Ser Gln Ile Ala Asp Lys Arg Val Glu Lys
 675 680 685
 Val Thr Asp Tyr Leu Gln Met Gly Gln Glu Val Pro Val Lys Val Leu
 690 695 700
 Glu Val Asp Arg Gln Gly Arg Ile Arg Leu Ser Ile Lys Glu Ala Thr
 705 710 715 720
 Glu Gln Ser Gln Pro Ala Ala Ala Pro Glu Ala Pro Ala Ala Glu Gln
 725 730 735
 Gln Gly Glu 740

<210> 7641
 <211> 417
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(387)

<400> 7641
 Gly Arg Met Ala Thr Leu Thr Thr Thr Gln Thr Ser Pro Ser Leu Leu
 1 5 10 15
 Gly Gly Val Val Ile Ile Gly Gly Thr Ile Ile Gly Ala Gly Met Phe
 20 25 30
 Ser Leu Pro Val Val Met Ser Gly Ala Trp Phe Phe Trp Ser Leu Ala
 35 40 45
 Ala Leu Val Phe Thr Trp Phe Cys Met Leu His Ser Gly Leu Met Ile
 50 55 60
 Leu Glu Ala Asn Leu Asn Tyr Arg Ile Gly Ser Ser Phe Asp Thr Leu
 65 70 75 80
 Thr Arg Asp Leu Leu Gly Lys Gly Trp Asn Leu Val Asn Gly Leu Ser
 85 90 95
 Ile Ala Phe Val Leu Tyr Ile Leu Thr Tyr Ala Tyr Ile Ser Ala Ser
 100 105 110
 Gly Ser Ile Leu His His Thr Phe Ser Glu Met Ser Leu Asn Val Pro
 115 120 125
 Ala Arg Leu Ala Gly Leu Cys Phe Ala Leu Gly Val Ala Phe Ile Val
 130 135 140
 Trp Met Ser Thr Lys Ala Val Ser Arg Met Thr Ala Ile Val Leu Gly
 145 150 155 160
 Ala Lys Val Ile Thr Phe Phe Leu Thr Phe Gly Ser Leu Leu Gly His
 165 170 175
 Val Thr Pro Ala Thr Leu Phe Asn Val Ala Glu Thr Asn Thr Ser Tyr
 180 185 190
 Thr Pro Tyr Leu Leu Met Thr Leu Pro Phe Cys Leu Ala Ser Phe Gly
 195 200 205
 Tyr His Gly Asn Val Pro Ser Leu Met Lys Tyr Tyr Gly Lys Asp Pro
 210 215 220
 Arg Thr Ile Val Lys Cys Leu Val Tyr Gly Thr Leu Leu Ala Leu Ala
 225 230 235 240
 Leu Tyr Val Ile Trp Leu Leu Gly Thr Met Gly Asn Ile Pro Arg Pro
 245 250 255
 Glu Phe Ile Gly Ile Ala Gln Lys Gly Gly Asn Ile Asp Val Leu Val
 260 265 270
 Gln Ala Leu Gly Gly Val Leu Asn Ser His Ser Leu Asp Leu Leu Leu
 275 280 285
 Val Val Phe Ser Asn Phe Ala Val Ala Ser Ser Phe Leu Gly Val Thr
 290 295 300
 Leu Gly Leu Phe Asp Tyr Leu Ala Asp Leu Phe Gly Phe Asp Asp Ser
 305 310 315 320

Ala Thr Gly Arg Phe Lys Thr Ala Leu Leu Thr Phe Leu Pro Pro Ile
 325 330 335
 Val Gly Gly Leu Leu Trp Pro Asn Gly Phe Leu Tyr Ala Ile Gly Tyr
 340 345 350
 Ala Gly Leu Ala Ala Thr Ile Trp Ala Ala Ile Val Pro Ala Leu Leu
 355 360 365
 Ala Arg Lys Ser Arg Lys Arg Phe Gly Ser Pro Lys Phe Arg Val Trp
 370 375 380
 Gly Gly Xaa Pro Met Ile Ala Leu Ile Leu Val Phe Gly Ile Gly Asn
 385 390 395 400
 Ala Val Val His Val Leu Ser Ser Phe Asn Leu Leu Pro Val Tyr Gln
 405 410 415

<210> 7642

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 7642

Thr Met Leu Ile Arg Val Glu Ile Gly Ile Asp Ala Pro Gly Ile Asp
 1 5 10 15
 Ala Leu Leu Arg Arg Ser Phe Ala Gly Asp Ala Glu Ala Gln Leu Val
 20 25 30
 His Asp Leu Arg Glu Asp Gly Leu Ile Thr Leu Gly Leu Val Ala Thr
 35 40 45
 Asp Asp Glu Gly Gln Val Val Gly Tyr Val Ala Phe Ser Pro Val Ile
 50 55 60
 Val Gln Gly Glu Glu Leu Gln Trp Val Gly Met Ala Pro Leu Ala Val
 65 70 75 80
 Asp Glu Asn Tyr Arg Gly Gln Gly Leu Ala Arg Gln Leu Val Tyr Glu
 85 90 95
 Gly Leu Asp Ser Leu Asn Glu Phe Gly Tyr Ala Ala Val Val Val Leu
 100 105 110
 Gly Asp Pro Ala Phe Tyr Glu Arg Leu Gly Phe Glu Pro Ala Ser Arg
 115 120 125
 Tyr Asp Leu Arg Cys His Trp Pro Gly Thr Glu Thr Ser Phe Gln Val
 130 135 140
 His Pro Leu Ala Asp Asp Ala Leu Asp Gly Val Thr Gly Leu Val Glu
 145 150 155 160
 Tyr His Asp His Phe Asn Arg Phe
 165

<210> 7643

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 7643

Glu Arg Ala Lys Met Glu Thr Leu Ala Ala Ile Asn Arg Trp Leu Ala
 1 5 10 15
 Lys Gln His Val Val Thr Trp Cys Val Cys Lys Asp Glu Glu Met Trp
 20 25 30
 Cys Ala Asn Ala Phe Tyr Tyr Trp Asp Pro Glu Arg Val Ala Phe Tyr
 35 40 45
 Val Met Ser Glu Asp Lys Thr Arg His Ala Gln Met Thr Gly Gln Gln
 50 55 60
 Ala Lys Val Ala Gly Thr Val Asn Gly Gln Pro Lys Thr Val Ala Leu
 65 70 75 80
 Ile Arg Gly Val Gln Phe Lys Gly Glu Ile Arg Arg Leu Glu Gly Glu

85 90 95
 Glu Ser Asp Ala Gln Arg Lys Arg Tyr Thr Arg Arg Phe Pro Val Ala
 100 105 110
 Ala Ala Leu Lys Ala Pro Val Trp Glu Ile Arg Leu Asp Glu Leu Lys
 115 120 125
 Phe Thr Asp Asn Thr Leu Gly Phe Gly Lys Lys Leu His Trp Leu Arg
 130 135 140
 Ala Glu Gln Ala
 145

<210> 7644

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 7644

His Leu Pro Gly Asn Gly Met Thr Gly Gln Ser Ser Ser Gln Ala Ala
 1 5 10 15
 Thr Pro Val Gln Trp Trp Lys Pro Ala Leu Phe Phe Leu Val Val Ile
 20 25 30
 Ile Gly Leu Trp Tyr Val Lys Trp Gln Pro Tyr Tyr Gly Lys Ala Phe
 35 40 45
 Thr Ala Ala Asp Thr His Ser Ile Gly Lys Ser Ile Leu Ala Gln Ala
 50 55 60
 Asp Ser Ser Pro Leu Arg Ala Ala Trp Asp Tyr Ala Met Val Tyr Phe
 65 70 75 80
 Leu Ala Val Trp Lys Ala Ala Val Leu Gly Val Leu Leu Gly Ser Leu
 85 90 95
 Ile Gln Val Leu Ile Pro Arg Asn Trp Leu Val Lys Thr Leu Gly Gln
 100 105 110
 Pro Arg Leu Gln Gly Thr Leu Leu Gly Thr Ile Phe Ser Leu Pro Gly
 115 120 125
 Met Met Cys Ser Cys Cys Ala Ala Pro Val Ala Ala Gly Met Arg Arg
 130 135 140
 Gln Arg Val Ser Met Gly Gly Ala Leu Ala Phe Trp Met Gly Asn Pro
 145 150 155 160
 Leu Leu Asn Pro Ala Thr Leu Val Phe Met Gly Phe Val Leu Gly Trp
 165 170 175
 His Phe Ala Phe Ile Arg Leu Ala Ala Gly Leu Leu Thr Val Val Leu
 180 185 190
 Val Ala Thr Leu Val Gln His Leu Val Lys Asp Asn Glu Ala Gly Ser
 195 200 205
 Ala Ser Val Glu Leu Asp Val Ser Glu Pro Gln Gly Ser Phe Phe Ala
 210 215 220
 Arg Trp Gly Lys Ala Leu Trp Gln Leu Phe Leu Glu His His Ser Gly
 225 230 235 240
 Leu Tyr Pro Gly Phe
 245

<210> 7645

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 7645

Trp Arg Pro Val Phe Pro Phe Ser Leu Ser Leu Met Leu Trp Cys Val
 1 5 10 15
 His Leu Asn Ile Leu Asn Leu Phe Thr Val Cys Trp Phe Leu Tyr Leu
 20 25 30
 Val Arg Thr Ala Asp Asn Ala Leu Tyr Thr Gly Ile Thr Asp Val
 35 40 45

Ala Arg Arg Phe Leu Gln His Gln Thr Gly Lys Gly Ala Lys Ala Leu
 50 55 60
 Arg Gly Lys Gly Glu Leu Gln Leu Ala Phe Ser Ala Ala Val Gly Asp
 65 70 75 80
 Arg Ser Leu Ala Leu Arg Leu Glu Tyr Arg Ile Lys Gln Leu Thr Lys
 85 90 95
 Arg Gln Lys Glu Arg Leu Val Asn Gly Asp Gly Ser Phe Glu Ala Leu
 100 105 110
 Leu Glu Ser Leu Leu Lys Asn Asp
 115 120

<210> 7646

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 7646

Ala Arg Trp Gln Arg Cys Gly Val Arg Pro Ser Thr Ala Ala Trp Arg
 1 5 10 15
 Thr Arg Lys Thr Thr Leu Arg Arg Arg His Gly Trp Arg Arg Ser Ala
 20 25 30
 Arg Cys Pro Lys Ala Pro Lys Pro Arg Ser Ala Arg Ile Thr Val Asn
 35 40 45
 Gly Ser Glu Ile Ile Met Lys Tyr Ser Leu Gly Pro Val Leu Tyr Tyr
 50 55 60
 Trp Pro Lys Glu Thr Leu Glu Asp Phe Tyr Gln Gln Ala Ala Asn Ser
 65 70 75 80
 Ser Ala Asp Val Ile Tyr Leu Gly Glu Ala Val Cys Ser Lys Arg Arg
 85 90 95
 Ala Thr Lys Val Gly Asp Trp Leu Asp Met Ala Lys Ser Leu Ala Gly
 100 105 110
 Ser Gly Lys Gln Val Val Leu Ser Thr Leu Ala Leu Val Gln Ala Ser
 115 120 125
 Ser Glu Leu Gly Glu Leu Lys Arg Tyr Val Glu Asn Gly Glu Phe Leu
 130 135 140
 Leu Glu Ala Ser Asp Leu Gly Val Val Asn Met Cys Ala Glu Arg Lys
 145 150 155 160
 Leu Pro Phe Val Ala Gly His Ala Leu Asn Cys Tyr Asn Ala Val Thr
 165 170 175
 Leu Arg Leu Leu Leu Lys Gln Gly Met Thr Arg Trp Cys Met Pro Val
 180 185 190
 Glu Leu Ser Arg Asp Trp Leu Ala Asn Leu Leu Thr Gln Cys Glu Glu
 195 200 205
 Leu Gly Ile Arg Asn Lys Phe Glu Val Glu Val Leu Ser Tyr Gly His
 210 215 220
 Leu Pro Leu Ala Tyr Ser Ala Arg Cys Phe Thr Ala Arg Ser Glu Asp
 225 230 235 240
 Arg Pro Lys Asp Glu Cys Glu Thr Cys Cys Ile Lys Tyr Pro Asn Gly
 245 250 255
 Arg Ser Met Leu Ser Gln Glu Asn Gln Gln Val Phe Val Leu Asn Gly
 260 265 270
 Ile Gln Thr Met Ser Gly Tyr Val Tyr Asn Leu Gly Asn Glu Leu Ala
 275 280 285
 Ser Met His Gly Leu Val Asp Met Val Arg Leu Ser Pro Leu Asp Thr
 290 295 300
 Gly Val Phe Ala Met Leu Asp Ala Phe Arg Ala Asn Glu Asn Gly Ala
 305 310 315 320
 Ala Pro Leu Pro Leu Thr Ala Asn Ser Asp Cys Asn Gly Tyr Trp Arg
 325 330 335
 Arg Leu Ala Gly Leu Glu Leu Gln Ala
 340 345

<210> 7647
 <211> 338
 <212> PRT
 <213> Enterobacter cloacae

<400> 7647
 Ala Val Met Thr Asp Lys Thr Ile Pro Phe Ser Val Leu Asp Leu Ala
 1 5 10 15
 Pro Ile Pro Gln Gly Ser Ser Ala Arg Glu Ala Phe Thr His Ser Leu
 20 25 30
 Asp Leu Ala Gln Leu Ala Glu Lys Arg Gly Tyr His Arg Tyr Trp Leu
 35 40 45
 Ala Glu His His Asn Met Val Gly Ile Ala Ser Ala Ala Thr Ser Val
 50 55 60
 Leu Ile Gly Tyr Leu Ala Ala Asn Thr Thr Thr Leu His Leu Gly Ser
 65 70 75 80
 Gly Gly Val Met Leu Pro Asn His Ala Pro Leu Val Ile Ala Glu Gln
 85 90 95
 Phe Gly Thr Leu Asn Thr Leu Tyr Pro Gly Arg Ile Asp Leu Gly Leu
 100 105 110
 Gly Arg Ala Pro Gly Ser Asp Gln Pro Thr Met Arg Ala Leu Arg Arg
 115 120 125
 His Met Ser Gly Asp Ile Asp Asn Phe Pro Arg Asp Val Ala Glu Leu
 130 135 140
 Val Gly Trp Phe Asp Ala Arg Asp Pro Asn Pro His Val Arg Pro Val
 145 150 155 160
 Pro Gly Tyr Gly Glu Lys Ile Pro Val Trp Leu Leu Gly Ser Ser Leu
 165 170 175
 Tyr Ser Ala Gln Leu Ala Ala Gln Leu Gly Leu Pro Phe Ala Phe Ala
 180 185 190
 Ser His Phe Ala Pro Asp Met Leu His Gln Ala Leu His Leu Tyr Arg
 195 200 205
 Thr His Phe Lys Pro Ser Glu Arg Leu Glu Lys Pro Tyr Ala Met Val
 210 215 220
 Cys Ile Asn Ile Ile Ala Ala Asp Ser Asn Arg Asp Ala Glu Phe Leu
 225 230 235 240
 Phe Thr Ser Met Gln Gln Ala Phe Val Lys Leu Arg Arg Gly Glu Thr
 245 250 255
 Gly Gln Leu Pro Pro Val Glu Asn Met His Gln Leu Trp Ser Ala
 260 265 270
 Ser Glu Gln Tyr Gly Val Gln Gln Ala Leu Ser Met Ser Leu Val Gly
 275 280 285
 Asp Lys Ala Lys Val Arg His Gly Leu Glu Ser Val Leu Arg Glu Thr
 290 295 300
 Gln Ala Asp Glu Ile Met Val Asn Gly Gln Ile Phe Asp His Gln Ala
 305 310 315 320
 Arg Leu His Ser Phe Asp Leu Ala Met Gln Val Lys Glu Glu Leu Val
 325 330 335
 Gly

<210> 7648
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 7648
 Thr Gly Met Val Leu Gln Lys Lys Leu Pro Gln Arg Phe Ala Pro Ala
 1 5 10 15
 Ser Lys Glu Thr Ala Leu Arg Leu Ala Asp Val Gln Leu Asn Gly Ser

	20		25		30
Arg Ser Gly	Leu Val Val Phe	His Gln Val Leu	His Gln Arg Ser	Asp	
	35	40		45	
Lys His His	Arg Gln Gln Ala	Ser Arg Gln Thr	Asp Lys Arg Glu	Met	
	50	55	60		
Pro Ala Glu	Asn Glu Ala His	Lys His Gln Arg	Cys Arg Val Gln	Gln	
65	70	75		80	
Trp Val Thr	His Pro Glu Gly	Lys Arg Ala Ala	His Arg His Ala	Leu	
	85	90	95		
Ser Ala His	Thr Arg Arg His	Arg Cys Gly Ala	Ala Gly Thr His	His	
	100	105	110		
Ala Arg Gln	Gly Glu Asn Arg	Pro Gln Gln Arg	Ala Leu Gln Ala	Arg	
	115	120	125		
Leu Ser Gln	Gly Phe His Gln	Pro Val Thr Arg	Asp Lys Tyr Leu	Asn	
	130	135	140		
Gln Arg Ala	Gln Gln Tyr Ala				
145	150				

<210> 7649

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 7649

Ser Glu Asn	Asn Gly Gly Ser	Met Gly Lys Lys	Ile Ala Val Leu	Ile
1	5	10	15	
Thr Asp Glu	Phe Glu Asp Ser	Glu Phe Thr Ser	Pro Ala Glu Ala	Phe
	20	25	30	
Arg Lys Ala	Gly His Glu Val	Val Thr Ile Glu	Lys Glu Ala Gly	Lys
	35	40	45	
Thr Val Lys	Gly His Lys Gly	Glu Ala Ser Val	Thr Thr Ile Asp	Glu Ser
	50	55	60	
Ile Asp Asn	Val Ser Pro Ser	Asp Phe Asp Ala	Leu Leu Leu Pro	Gly
65	70	75	80	
Gly His Ser	Pro Asp Ser Leu	Arg Gly Asp Glu	Arg Phe Val Thr	Phe
	85	90	95	
Thr Arg Asp	Phe Val Gly Thr	Gly Lys Pro Val	Phe Ala Ile Cys	His
	100	105	110	
Gly Pro Gln	Leu Leu Ile Ser	Ala Glu Val Val	Arg Gly Arg Lys	Leu
	115	120	125	
Thr Ala Val	Lys Ser Ile Val	Ile Asp Leu Lys	Asn Ala Gly Ala	Glu
	130	135	140	
Phe Tyr Asp	Gln Glu Val Val	Asn Asp Asn Asp	Gln Leu Ile Thr	Ser
	145	150	155	160
Arg Thr Pro	Asp Asp Leu Pro	Ala Phe Asn Arg	Glu Ala Leu Arg	Leu
	165	170	175	
Leu Gly Ala				

180

<210> 7650

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 7650

Ala Ala Gly	Pro Arg Lys Gly	Leu Pro Arg Ser	Gln Cys Gly Ala	Phe
1	5	10	15	
His Asn Thr	Thr Gly Gly Leu	Thr Tyr Phe Asn	Thr Thr Pro Leu	Gly
	20	25	30	
Arg Ala Val	Thr Gly Thr Met	Leu Val Ala Ala	Met Lys Glu Asp	Gly
	35	40	45	

Val Asn Ile Trp Gly Asp Gly Ser Thr Tyr Lys Gly Asn Asp Ile Glu
 50 55 60
 Arg Phe Tyr Arg Tyr Gly Leu Leu Thr Asn Ala Glu Leu Gln Ile Tyr
 65 70 75 80
 Lys Pro Trp Leu Asp Thr Asp Phe Ile Asp Glu Leu Gly Gly Arg His
 85 90 95
 Glu Met Ser Glu Phe Met Ile Ala Cys Gly Phe Asp Tyr Lys Met Ser
 100 105 110
 Val Glu Lys Ala Tyr Ser Thr Asp Ser Asn Met Leu Gly Ala Thr His
 115 120 125
 Glu Ala Lys Asp Leu Glu Phe Leu Asn Ser Ser Val Lys Ile Val Asn
 130 135 140
 Pro Ile Met Gly Val Lys Phe Trp Asp Glu Asn Val Lys Ile Pro Ala
 145 150 155 160
 Glu Glu Val Thr Val Arg Phe Glu Arg Gly His Pro Val Ala Leu Asn
 165 170 175
 Gly Lys Thr Phe Ser Asp Asp Val Glu Leu Met Leu Glu Ala Asn Arg
 180 185 190
 Ile Gly Gly Arg His Gly Leu Gly Met Ser Asp Gln Ile Glu Asn Arg
 195 200 205
 Ile Ile Glu Ala Lys Ser Arg Gly Ile Tyr Glu Ala Pro Gly Met Ala
 210 215 220
 Leu Leu His Ile Ala Tyr Glu Arg Leu Leu Thr Gly Ile His Asn Glu
 225 230 235 240
 Asp Thr Ile Glu Gln Tyr His Ala His Asp Arg Gln Leu Gly Lys Leu
 245 250 255
 Leu Tyr Gln Gly Arg Trp Phe Asp Pro Gln Ala Leu Met Leu Arg Asp
 260 265 270
 Ala Met Gln Arg Trp Val Ala Ser Ala Ile Thr Gly Glu Val Thr Leu
 275 280 285
 Glu Leu Arg Arg Gly Asn Glu Tyr Ser Ile Leu Asn Thr Val Ser Asp
 290 295 300
 Asn Leu Thr Tyr Lys Ala Glu Arg Leu Thr Met Glu Lys Gly Glu Ser
 305 310 315 320
 Val Phe Ser Pro Asp Asp Arg Ile Gly Gln Leu Thr Met Arg Asn Leu
 325 330 335
 Asp Ile Thr Asp Thr Arg Glu Lys Leu Phe Asn Tyr Val Glu Asn Gly
 340 345 350
 Leu Leu Ser Ala Asn Ser Gly Asn Gly Leu Pro Gln Val Glu Asn Leu
 355 360 365
 Glu His Ser Asp Lys Lys
 370 375

<210> 7651

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 7651

Ile Met Glu Leu Leu Cys Pro Ala Gly Asn Leu Pro Ala Leu Lys Ala
 1 5 10 15
 Ala Ile Glu Asn Gly Ala Asp Ala Val Tyr Ile Gly Leu Lys Asp Asp
 20 25 30
 Thr Asn Ala Arg His Phe Ala Gly Leu Asn Phe Thr Glu Lys Lys Leu
 35 40 45
 Gln Glu Ala Val Asn Phe Val His Gln His Arg Arg Lys Leu His Ile
 50 55 60
 Ala Ile Asn Thr Phe Ala His Pro Asp Gly Tyr Ala Arg Trp Gln Arg
 65 70 75 80
 Ala Val Asp Met Ala Ala Gln Leu Gly Ala Asp Ala Leu Ile Leu Ala
 85 90 95

Asp Leu Ala Met Leu Glu Tyr Ala Ala Glu Arg Tyr Pro His Ile Glu
 100 105 110
 Arg His Val Ser Val Gln Ala Ser Ala Thr Asn Glu Glu Ala Val Arg
 115 120 125
 Phe Tyr His Arg His Phe Asp Val Ala Arg Val Val Leu Pro Arg Val
 130 135 140
 Leu Ser Ile His Gln Val Lys Gln Leu Ala Arg Val Thr Pro Val Pro
 145 150 155 160
 Leu Glu Val Phe Ala Phe Gly Ser Leu Cys Ile Met Ala Glu Gly Arg
 165 170 175
 Cys Tyr Leu Ser Ser Tyr Leu Thr Gly Glu Ser Pro Asn Thr Val Gly
 180 185 190
 Ala Cys Ser Pro Ala Arg Phe Val Arg Trp Gln Gln Thr Pro Gln Gly
 195 200 205
 Leu Glu Ser Arg Leu Asn Asp Val Leu Ile Asp Arg Tyr Gln Asp Gly
 210 215 220
 Glu Asn Ala Gly Tyr Pro Thr Leu Cys Lys Gly Arg Tyr Leu Val Asp
 225 230 235 240
 Gly Glu Arg Tyr His Ala Leu Glu Glu Pro Thr Ser Leu Asn Thr Leu
 245 250 255
 Glu Leu Leu Pro Glu Leu Leu Ala Ala Asn Ile Ala Ser Val Lys Ile
 260 265 270
 Glu Gly Arg Gln Arg Ser Pro Ala Tyr Val Ser Gln Val Ala Lys Val
 275 280 285
 Trp Arg Gln Ala Ile Asp Arg Cys Met Ala Asp Pro Gln Asn Tyr Ala
 290 295 300
 Pro Gln Ala Ala Trp Met Glu Thr Leu Gly Ala Met Ser Glu Gly Thr
 305 310 315 320
 Gln Thr Thr Leu Gly Ala Tyr His Arg Lys Trp Gln
 325 330

<210> 7652

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 7652

Ser Val Asn Gln Ala Gly Phe Tyr Tyr Met Thr Thr Ile Leu Lys His
 1 5 10 15
 Leu Pro Val Gly Gln Arg Ile Gly Ile Ala Phe Ser Gly Gly Leu Asp
 20 25 30
 Thr Ser Ala Ala Leu Leu Trp Met Arg Gln Lys Gly Ala Val Pro Tyr
 35 40 45
 Ala Tyr Thr Ala Asn Leu Gly Gln Pro Asp Glu Glu Asp Tyr Asp Ala
 50 55 60
 Ile Pro Arg Arg Ala Met Glu Tyr Gly Ala Glu Asn Ala Arg Leu Ile
 65 70 75 80
 Asp Cys Arg Lys Gln Leu Val Pro Gly Arg Asp Cys Arg Asp Pro Ser
 85 90 95
 Ala Val Leu Ser Ile Thr Leu Pro Ala Ala
 100 105

<210> 7653

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 7653

Thr Val Ile Ala Met Ala Ala Arg Lys Ser Ile Ile Phe Ile Cys Ile
 1 5 10 15
 Cys Trp Val Asp Val His Trp Asp Arg Cys Trp His Ile Lys Val Phe

	20		25		30	
Asn Met	Leu Thr Gly Arg Ile Ala	Leu Ile Val Thr	Leu Val Met			
	35		40		45	
Val Gly	Cys Ser Ala Arg Pro Ala	Ile Pro Val Ser	Glu Glu Gln Thr			
	50		55		60	
Leu Val	Met Glu Ser Ser Val Leu	Ala Ala Gly Ile Thr	Ala Glu Lys			
65		70		75		80
Pro Ser	Leu Thr Ile Ser Glu Ile	Gln Ser Ser Ala	Ser Ser Thr Leu			
	85		90		95	
Tyr Asn	Glu Arg Gln Glu Pro Val	Thr Val His Tyr Arg	Phe Tyr Trp			
	100		105		110	
Tyr Asp	Val Arg Gly Leu Glu Met	His Pro Leu Glu Ala	Pro Arg Ser			
	115		120		125	
Val Thr	Ile Pro Ala Arg Ser Ser	Val Thr Leu Tyr Gly	Ser Ala Ser			
	130		135		140	
Tyr Leu	Gly Ala His Lys Val Arg	Leu Tyr Leu Tyr Leu				
145		150		155		

<210> 7654

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 7654

Arg Tyr	Lys Ile Met Lys Asn	Val Lys Thr Leu	Ile Ala Ala Ala Val
1	5	10	15
Leu Ser	Ser Leu Ser Phe Ala	Ser Phe Ala Ala Val	Glu Val Gln Ser
	20	25	30
Thr Pro	Ala Asp Gln Gln Lys	Val Gly Thr Ile Ser	Ala Thr Ala Gly
	35	40	45
Thr Asn	Leu Gly Ser Leu Glu	Asp Gln Leu Ala Gln	Lys Ala Asp Glu
50		55	60
Met Gly	Ala Lys Ser Phe Arg	Ile Thr Ser Val Thr	Gly Pro Asn Thr
65		70	75
Leu His	Gly Thr Ala Val Ile	Tyr Lys	
	85		90

<210> 7655

<211> 423

<212> PRT

<213> Enterobacter cloacae

<400> 7655

Thr Asp	Ala Asp Gly Ser Gly	Val Met Ala Ser	Pro Leu Ser Leu Leu
1	5	10	15
Ile Gly	Leu Arg Phe Ser Arg	Gly Arg Arg Arg	Ser Gly Met Val Ser
	20	25	30
Leu Ile	Ser Val Ile Ser Thr	Ile Gly Ile Ala Leu	Gly Val Ala Val
	35	40	45
Leu Ile	Val Gly Leu Ser Ala	Met Asn Gly Phe	Glu Arg Glu Leu Asn
50		55	60
Asn Arg	Ile Leu Ala Val Val	Pro His Gly Glu Ile	Glu Pro Val Asn
65		70	75
Gln Pro	Trp Ser Asn Trp Gln	Asp Ser Leu Asn Lys	Val Glu Lys Val
	85	90	95
Pro Gly	Ile Ala Ala Ala Ala	Pro Tyr Ile Asn Phe	Thr Gly Leu Val
	100	105	110
Glu Ser	Gly Val Asn Leu Arg	Ala Ile Gln Val Lys	Gly Val Asn Pro
	115	120	125
Arg Gln	Glu Glu Arg Leu Ser	Ala Leu Pro Arg Tyr	Val Gln Asn Gly
130		135	140

Ala Trp Ala Asn Phe Lys Ala Gly Glu Gln Gln Ile Ile Met Gly Lys
 145 150 155 160
 Gly Val Ala Asp Ala Leu Lys Val Lys Gln Gly Asp Trp Val Ser Ile
 165 170 175
 Met Ile Pro Asn Ala Ser Ala Asp His Lys Leu Gln Gln Pro Lys Arg
 180 185 190
 Val Arg Leu His Val Thr Gly Ile Leu Gln Leu Ser Gly Gln Leu Asp
 195 200 205
 His Ser Phe Ala Met Val Pro Leu Glu Asp Ala Arg Gln Tyr Leu Asp
 210 215 220
 Met Ser Asp Ser Val Thr Gly Ile Ala Ile Lys Val Asn Asp Val Phe
 225 230 235 240
 Asn Ala Asn Lys Leu Val Arg Asp Ala Gly Ser Val Thr Asn Asn Tyr
 245 250 255
 Val Tyr Ile Lys Ser Trp Ile Gly Thr Tyr Gly Tyr Met Tyr Arg Asp
 260 265 270
 Ile Gln Met Ile Arg Ala Ile Met Tyr Leu Ala Met Val Leu Val Ile
 275 280 285
 Gly Val Ala Cys Phe Asn Ile Val Ser Thr Leu Val Met Ala Val Lys
 290 295 300
 Asp Lys Ser Gly Asp Ile Ala Val Leu Arg Thr Leu Gly Ala Lys Asp
 305 310 315 320
 Gly Leu Ile Arg Ala Ile Phe Val Trp Tyr Gly Leu Leu Ala Gly Leu
 325 330 335
 Phe Gly Ser Leu Cys Gly Val Ala Ile Gly Val Val Val Ser Leu Gln
 340 345 350
 Leu Thr Pro Ile Ile Asn Gly Ile Glu Ala Leu Ile Gly His Gln Phe
 355 360 365
 Leu Ser Gly Asp Ile Tyr Phe Ile Asp Phe Leu Pro Ser Glu Leu His
 370 375 380
 Trp Leu Asp Val Ile Tyr Val Leu Val Thr Ala Leu Leu Ser Leu
 385 390 395 400
 Leu Ala Ser Trp Tyr Pro Ala Arg Arg Ala Ser Arg Ile Asp Pro Ala
 405 410 415
 Arg Val Leu Ser Gly Gln
 420

<210> 7656

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 7656

Phe Arg His Gly Leu Ala Val Phe Trp Pro Leu Asn Gln Thr Glu Glu
 1 5 10 15
 Cys Ile Met Tyr Tyr Gly Phe Asp Ile Gly Gly Thr Lys Ile Ala Leu
 20 25 30
 Gly Val Phe Asp Lys Asp Leu Lys Leu Gln Trp Glu Thr Arg Val Pro
 35 40 45
 Thr Pro Arg Glu Ser Tyr Asp Glu Phe Leu Thr Ala Ile Ala Ala Leu
 50 55 60
 Val Ala Gln Ala Asp Glu Arg Phe Gly Val Lys Gly Ser Val Gly Ile
 65 70 75 80
 Gly Ile Pro Gly Met Pro Glu Thr Asp Asp Gly Thr Leu Tyr Ala Ala
 85 90 95
 Asn Val Pro Ala Ala Ser Gly Lys Pro Leu Arg Ala Asp Leu Ser Ala
 100 105 110
 Leu Leu Glu Arg Asp Val Arg Leu Asp Asn Asp Ala Asn Cys Phe Ala
 115 120 125
 Leu Ser Glu Ala Trp Asp Asp Glu Phe Arg Arg Phe Pro Leu Val Met
 130 135 140

Gly Leu Ile Leu Gly Thr Gly Val Gly Gly Gly Ile Val Ile Asn Gly
 145 150 155 160
 Lys Pro Ile Thr Gly Arg Ser Tyr Ile Thr Gly Glu Phe Gly His Ile
 165 170 175
 Arg Leu Pro Val Asp Ala Leu Glu Val Val Gly Arg Asp Phe Pro Leu
 180 185 190
 Thr Arg Cys Gly Cys Gly Gln His Gly Cys Ile Glu Asn Tyr Leu Ser
 195 200 205
 Gly Arg Gly Phe Ala Trp Leu Tyr Glu His Phe Tyr His Gln Lys Leu
 210 215 220
 Glu Ala Pro Gln Ile Ile Thr Leu Trp Glu Gln Gly Asp Ala Gln Ala
 225 230 235 240
 Arg Glu His Val Glu Arg Tyr Leu Asp Leu Ala Val Cys Leu Gly
 245 250 255
 Asn Ile Leu Thr Ile Val Asp Pro Asp Leu Leu Val Ile Gly Gly Gly
 260 265 270
 Leu Ser Asn Phe Thr Ala Ile Thr Glu Gln Leu Ser Gly Arg Leu Thr
 275 280 285
 Arg His Leu Leu Pro Val Ala Arg Val Pro Arg Ile Glu Arg Ala Arg
 290 295 300
 His Gly Asp Ala Gly Gly Met Arg Gly Ala Ala Phe Leu His Leu Thr
 305 310 315 320
 Asp

<210> 7657

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 7657

Thr Leu Ile Lys Thr Met Ser Arg Tyr Ala Leu Leu Ser Ala Phe Ala
 1 5 10 15
 Leu Phe Leu Ala Gly Cys Val Thr Arg Thr Glu Glu Pro Ala Pro Val
 20 25 30
 Asp Gln Ala Lys Pro Gly Thr Glu Gln Pro Thr Thr Pro Ala Gln Pro
 35 40 45
 Val Pro Thr Val Pro Ser Val Pro Thr Ile Pro Ala Gln Pro Gly Pro
 50 55 60
 Ile Glu His Pro Asp Asp Thr Ala Gln Pro Ala Pro Arg Val Arg His
 65 70 75 80
 Tyr Asp Trp Asn Gly Ala Met Gln Pro Met Val Gly Lys Met Leu Gln
 85 90 95
 Ala Gln Gly Val Thr Pro Gly Ser Val Leu Leu Val Asp Ser Val Asn
 100 105 110
 Asn Arg Thr Asn Gly Ser Leu Asn Ala Gly Glu Ala Thr Glu Thr Leu
 115 120 125
 Arg Asn Ala Leu Ala Asn Asn Gly Lys Phe Thr Leu Val Ser Ala Gln
 130 135 140
 Gln Leu Ala Val Ala Lys Gln Gln Leu Gly Leu Ser Pro Gln Asp Ser
 145 150 155 160
 Leu Gly Ser Arg Ser Lys Ala Ile Gly Ile Ala Arg Asn Val Gly Ala
 165 170 175
 Gln Tyr Val Leu Tyr Ser Asn Ala Thr Gly Asn Val Asn Thr Pro Ser
 180 185 190
 Leu Gln Met Gln Leu Met Leu Val Gln Thr Gly Glu Ile Ile Trp Ser
 195 200 205
 Gly Lys Gly Ala Val Thr Gln Gln
 210 215

<210> 7658

<211> 356

<212> PRT

<213> *Enterobacter cloacae*

<400> 7658

Cys Leu Ala Ser Val Thr Asn Glu Arg Ile Arg Glu Val Gly Val Gly
 1 5 10 15
 Pro Val Met Leu Asp Val Glu Gly Phe Glu Leu Asp Ala Glu Arg
 20 25 30
 Glu Ile Leu Ala His Pro Leu Val Gly Gly Leu Ile Leu Phe Thr Arg
 35 40 45
 Asn Tyr His Asp Pro Glu Gln Leu Arg Glu Leu Val Arg Gln Ile Arg
 50 55 60
 Ala Ala Ser Arg Asn His Leu Val Val Ala Val Asp Gln Glu Gly Gly
 65 70 75 80
 Arg Val Gln Arg Phe Arg Glu Gly Phe Thr Arg Leu Pro Ala Ala Gln
 85 90 95
 Ser Phe Ala Ala Leu Leu Gly Ile Glu Glu Gly Gly Gln Leu Ala Gln
 100 105 110
 Asp Ala Gly Trp Leu Met Ala Ser Glu Met Ile Ala Met Asp Ile Asp
 115 120 125
 Ile Ser Phe Ala Pro Val Leu Asp Val Gly His Ile Ser Ala Ala Ile
 130 135 140
 Gly Glu Arg Ser Tyr His Asp Asp Pro Arg Ile Ala Leu Ala Met Ala
 145 150 155 160
 Thr Arg Phe Ile Asp Gly Met His Ala Ala Gly Met Lys Thr Thr Gly
 165 170 175
 Lys His Phe Pro Gly His Gly Ala Val Thr Ala Asp Ser His Lys Glu
 180 185 190
 Thr Pro Arg Asp Pro Arg Pro Glu Ala Asp Ile Arg Ala Lys Asp Met
 195 200 205
 Ser Val Phe Arg Ser Leu Ile Ala Asp Asn Lys Leu Asp Ala Ile Met
 210 215 220
 Pro Ala His Val Ile Tyr Ser Glu Val Asp Pro Arg Pro Ala Ser Gly
 225 230 235 240
 Ser Pro His Trp Leu Lys Thr Val Leu Arg Gln Glu Leu Gly Phe Asn
 245 250 255
 Gly Val Ile Phe Ser Asp Asp Leu Ser Met Glu Gly Ala Ala Ile Met
 260 265 270
 Gly Ser Tyr Ala Glu Arg Gly Gln Ala Ser Leu Asp Ala Gly Cys Asp
 275 280 285
 Met Ile Leu Val Cys Asn Asn Arg Lys Gly Ala Val Ser Val Leu Asp
 290 295 300
 Asn Leu Ser Pro Ile Asn Ala Glu Arg Val Thr Gln Leu Tyr His Lys
 305 310 315 320
 Gly Ser Phe Ser Arg Gln Glu Leu Met Asp Ser Ala Arg Trp Lys Thr
 325 330 335
 Val Asn Ala Arg Leu Glu Ala Leu Asn Glu Arg Trp Gln Ala His Lys
 340 345 350
 Ala Ala Leu
 355

<210> 7659

<211> 440

<212> PRT

<213> *Enterobacter cloacae*

<400> 7659

Phe Glu Gly Val Thr Leu Thr Thr Pro Leu Lys Lys Ile Val Ile Val
 1 5 10 15
 Gly Gly Gly Ala Gly Gly Leu Glu Leu Ala Thr Gln Leu Gly Lys Lys

20 25 30
 Leu Gly Arg Gly Lys Lys Ala Lys Ile Thr Leu Val Asp Arg Asn His
 35 40 45
 Ser His Leu Trp Lys Pro Leu Leu His Glu Val Ala Thr Gly Ser Leu
 50 55 60
 Asp Glu Gly Val Asp Ala Leu Ser Tyr Leu Ala His Ala Arg Asn His
 65 70 75 80
 His Phe Gln Phe Gln Leu Gly Ser Val Val Asp Ile Asn Arg Glu Asn
 85 90 95
 Lys Thr Ile Thr Leu Ala Glu Leu Arg Asp Asp Lys Gly Glu Leu Leu
 100 105 110
 Val Pro Glu Arg Lys Leu Ala Tyr Asp Thr Leu Val Met Ala Leu Gly
 115 120 125
 Ser Thr Ser Asn Asp Phe Asn Thr Pro Gly Val Lys Glu His Cys Ile
 130 135 140
 Phe Leu Asp Asn Pro His Gln Ala Arg Arg Phe His Gln Glu Met Leu
 145 150 155 160
 Asn Leu Phe Leu Lys Tyr Thr Asn Asn Met Gly Ala Asn Gly Lys Val
 165 170 175
 Asn Ile Ala Ile Val Gly Gly Gly Ala Thr Gly Val Glu Leu Ser Ala
 180 185 190
 Glu Leu His Asn Ala Val Lys Gln Leu His Ser Tyr Gly Tyr Lys Gly
 195 200 205
 Leu Thr Asn Glu Ala Leu Asn Val Thr Leu Val Glu Ala Gly Glu Arg
 210 215 220
 Ile Leu Pro Ala Leu Pro Pro Arg Ile Ser Gly Ala Ala His Asn Glu
 225 230 235 240
 Leu Thr Lys Leu Gly Val Arg Val Leu Thr Gln Thr Met Val Thr Ser
 245 250 255
 Ala Asp Glu Gly Gly Leu His Thr Lys Asp Gly Glu Tyr Ile Gln Ala
 260 265 270
 Asp Leu Met Val Trp Ala Ala Gly Ile Lys Ala Pro Asp Phe Met Lys
 275 280 285
 Asp Ile Gly Gly Leu Glu Thr Asn Arg Ile Asn Gln Leu Val Thr Glu
 290 295 300
 Pro Thr Leu Gln Thr Thr Arg Asp Pro Asp Ile Phe Ala Ile Gly Asp
 305 310 315 320
 Cys Ala Ser Cys Ala Arg Pro Glu Gly Gly Phe Val Pro Pro Arg Ala
 325 330 335
 Gln Ala Ala His Gln Met Ala Ser Leu Val Leu His Asn Ile Leu Ala
 340 345 350
 Gln Ile Lys Gly Lys Pro Met Lys Ala Tyr Val Tyr Lys Asp His Gly
 355 360 365
 Ser Leu Val Ser Leu Ser Asn Phe Ser Thr Val Gly Ser Leu Met Gly
 370 375 380
 Asn Leu Met Arg Gly Ser Met Met Val Glu Gly Arg Ile Ala Arg Phe
 385 390 395 400
 Val Tyr Ile Ser Leu Tyr Arg Met His Gln Ile Ala Leu His Gly Tyr
 405 410 415
 Phe Lys Thr Gly Leu Met Met Leu Val Gly Arg Ile Asn Arg Val Ile
 420 425 430
 Arg Pro Arg Leu Lys Leu His
 435 440

<210> 7660

<211> 648

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222>(355)

<400> 7660

Arg Ile Arg Leu Tyr Thr Arg Gly Ser Ala Ile Ser Lys Gln Thr Asp
 1 5 10 15
 Phe Met Tyr Gln Pro Val Ala Leu Phe Ile Gly Leu Arg Tyr Met Arg
 20 25 30
 Gly Arg Ala Ala Asp Arg Phe Gly Arg Phe Val Ser Trp Leu Ser Thr
 35 40 45
 Ile Gly Ile Thr Leu Gly Val Met Ala Leu Val Thr Val Leu Ser Val
 50 55 60
 Met Asn Gly Phe Glu Arg Glu Leu Gln Asn Asn Ile Leu Gly Leu Met
 65 70 75 80
 Pro Gln Ala Val Leu Ser Ser Thr Gln Gly Ser Val Asn Pro Gln Gln
 85 90 95
 Leu Pro Glu Ser Ala Val Lys Leu Gln Gly Val Thr Arg Val Ala Pro
 100 105 110
 Leu Thr Thr Gly Asp Val Val Leu Gln Ser Ala Arg Ser Val Ala Val
 115 120 125
 Gly Val Met Leu Gly Ile Asp Pro Ala Gln Lys Asp Trp Leu Thr Pro
 130 135 140
 Phe Leu Val Asn Val Lys Gln Thr Asp Leu Glu Ala Gly Lys Tyr Asn
 145 150 155 160
 Val Ile Leu Gly Glu Gln Leu Ala Gly Gln Leu Gly Val Asn Arg Gly
 165 170 175
 Asp Gln Leu Arg Val Met Val Pro Ser Ala Ser Gln Phe Thr Pro Met
 180 185 190
 Gly Arg Leu Pro Ser Gln Arg Leu Phe Asn Val Ile Gly Thr Phe Ala
 195 200 205
 Ala Asn Ser Glu Val Asp Gly Tyr Gln Met Leu Val Asn Ile Gln Asp
 210 215 220
 Ala Ser Arg Leu Met Arg Tyr Pro Ala Gly Asn Ile Thr Gly Trp Arg
 225 230 235 240
 Leu Trp Leu Asp Ala Pro Leu Lys Val Asp Thr Leu Ser Gln Gln Thr
 245 250 255
 Leu Pro Glu Gly Thr Lys Trp Gln Asp Trp Arg Asp Arg Lys Gly Glu
 260 265 270
 Leu Phe Gln Ala Val Arg Met Glu Lys Asn Met Met Gly Leu Leu Leu
 275 280 285
 Ser Leu Ile Val Ala Val Ala Ala Phe Asn Ile Ile Thr Ser Leu Gly
 290 295 300
 Leu Met Val Met Glu Lys Gln Gly Glu Val Ala Ile Leu Gln Thr Gln
 305 310 315 320
 Gly Leu Thr Pro Arg Gln Ile Met Ala Val Phe Met Val His Gly Ala
 325 330 335
 Ser Ala Gly Ile Ile Gly Ala Leu Leu Gly Ala Ala Leu Gly Ala Leu
 340 345 350
 Leu Ala Xaa Gln Leu Asn Asn Leu Met Pro Ile Ile Arg Ala Leu Leu
 355 360 365
 Asp Gly Ala Ala Leu Pro Val Ala Ile Glu Pro Leu Lys Trp Ser Val
 370 375 380
 Leu Arg Trp Pro Arg Trp Pro Met Arg Cys Leu Leu Arg Phe Ile Leu
 385 390 395 400
 Pro Gly Gly Leu Pro Pro Leu Asn Pro Leu Arg Leu Tyr Val Met Asn
 405 410 415
 Lys Ile Leu Leu Gln Cys Asp Asn Leu Ser Lys Arg Tyr Gln Glu Gly
 420 425 430
 Thr Val Gln Thr Asp Val Leu His Asn Val Ser Phe Ser Val Gly Glu
 435 440 445
 Gly Glu Met Met Ala Ile Val Gly Ser Ser Gly Ser Gly Lys Ser Thr
 450 455 460

Leu Leu His Leu Leu Gly Gly Leu Asp Thr Pro Thr Glu Gly Asp Val
 465 470 475 480
 Ile Phe Ser Gly Gln Pro Leu Ser Lys Met Ser Ser Thr Ala Lys Ala
 485 490 495
 Glu Leu Arg Asn Arg Glu Leu Gly Phe Ile Tyr Gln Phe His His Leu
 500 505 510
 Leu Pro Asp Phe Thr Ala Leu Glu Asn Val Ala Met Pro Leu Leu Ile
 515 520 525
 Gly Lys Lys Lys Pro Ala Glu Ile Asn Ala Arg Ala Ser Asp Met Leu
 530 535 540
 Lys Ala Val Gly Leu Gly His Arg Gly Asn His Arg Pro Ser Glu Leu
 545 550 555 560
 Ser Gly Gly Glu Arg Gln Arg Val Ala Ile Ala Arg Ala Leu Val Asn
 565 570 575
 Asn Pro Arg Leu Val Leu Ala Asp Glu Pro Thr Gly Asn Leu Asp Ala
 580 585 590
 Arg Asn Ala Asp Ser Ile Phe Gln Leu Leu Gly Glu Leu Asn Ala Ala
 595 600 605
 Gln Gly Thr Ala Phe Leu Val Val Thr His Asp Leu Gln Leu Ala Lys
 610 615 620
 Arg Met Gly Arg Gln Leu Glu Met Arg Asp Gly Arg Leu Asn Ala Glu
 625 630 635 640
 Leu Thr Leu Met Gly Ala Glu
 645

<210> 7661

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 7661

Lys Glu Lys Val Met Ala Glu Glu Thr Ile Phe Ser Lys Ile Ile Arg
 1 5 10 15
 Arg Glu Ile Pro Ser Asp Ile Val Tyr Gln Asp Glu Leu Val Thr Ala
 20 25 30
 Phe Arg Asp Ile Ser Pro Gln Ala Pro Thr His Ile Leu Ile Ile Pro
 35 40 45
 Asn Ile Leu Ile Pro Thr Val Asn Asp Val Lys Thr Glu His Glu Val
 50 55 60
 Ala Leu Gly Arg Met Leu Thr Val Ala Ala Lys Ile Ala Glu Gln Glu
 65 70 75 80
 Gly Ile Ala Glu Asp Gly Tyr Arg Leu Ile Met Asn Cys Asn Arg His
 85 90 95
 Gly Gly Gln Glu Val Tyr His Ile His Met His Leu Leu Gly Gly Arg
 100 105 110
 Pro Leu Gly Pro Met Leu Ala His Lys Gly Leu
 115 120

<210> 7662

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 7662

Cys Trp Phe Arg Pro Ala Lys Leu Ser Gly Gln Val Lys Val Pro Leu
 1 5 10 15
 Arg Asn Asn Lys Arg Thr Arg His Asp Val Leu Thr Arg Tyr Phe Pro
 20 25 30
 Gln Tyr His Val Ile Ala Pro Gln Ala Pro Ala Gly Leu Gly Gly Ala
 35 40 45
 Ser Cys Ile Ile Glu His Gly Asp His Arg Leu Val Leu Arg Gln His

50	55	60
His Asp Ala Ala Ala	Pro Ala Ser His Phe Arg Arg Gln Phe Arg Ala	
65	70	75
Leu Lys Arg Leu Pro	Ala Asp Leu Ala Pro Gln Pro His Leu Phe Ile	80
	85	90
Arg Asp Trp Met Ala	Val Ala Phe Ile Ala Gly Glu Ile Lys Ser Glu	95
	100	105
Leu Pro Asp Thr Pro	Ala Leu Thr Ala Met Leu Tyr His Leu His Arg	110
	115	120
Gln Pro Arg Leu Gly	Trp Arg Val Thr Leu Leu Pro Leu Leu Asp His	125
	130	135
Tyr Trp Gln Gln Ala	Ala Pro Gly Arg Arg Thr Pro Tyr Trp Leu Ala	140
	145	150
Gln Leu Lys Arg Leu	Arg Lys Ala Gly Glu Pro Gln Ala Leu Arg Leu	155
	165	170
Ala Pro Leu His Met	Asp Val His Ala Gly Asn Ile Val His Thr Thr	175
	180	185
Ala Gly Glu Lys Leu	Ile Asp Trp Glu Tyr Ala Gly Asp Gly Asp Val	190
	195	200
Ala Leu Glu Leu Ala	Ala Val Trp Met Pro Asp Glu Ala Ser Arg Lys	205
	210	215
Gln Leu Ile Thr Ala	Tyr Ala Arg Asn Ala Asn Ile Asn Ala Leu Thr	220
	225	230
Leu Ala Arg Gln Val	Ala Arg Trp Arg Pro Trp Val Leu Met Leu Met	235
	245	250
Ala Gly Trp Phe Glu	Met Arg Leu Gln Gln Thr Gly Asp Lys Gln Phe	255
	260	265
Ile Ala Leu Ala Asn	Asp Ala Trp Arg Gln Leu Gln Thr Lys Gly	270
	275	280
		285

<210> 7663

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 7663

Arg Gly Glu Thr Met	Ile Ile Tyr Leu His Gly Phe Asp Ser Asn Ser	
1	5	10
Pro Gly Asn His Glu	Lys Val Leu Gln Leu Gln Phe Ile Asp Pro Asp	15
	20	25
Val Arg Leu Ile Ser	Tyr Ser Thr Arg His Pro Lys His Asp Met Gln	30
	35	40
His Leu Leu Lys Glu	Val Asp Lys Met Leu Gln Leu Asn Ile Asp Asp	45
	50	55
Arg Pro Leu Ile Cys	Gly Val Gly Leu Gly Gly Tyr Trp Ala Glu Arg	60
	65	70
Ile Gly Phe Leu Cys	Asp Ile Arg Gln Val Ile Phe Asn Pro Asn Leu	75
	85	90
Phe Pro Asn Glu Asn	Met Glu Gly Lys Ile Asp Arg Pro Glu Glu Tyr	95
	100	105
Ala Asp Ile Ala Thr	Lys Cys Val Ser Asn Phe Arg Glu Lys Asn Arg	110
	115	120
Asp Arg Cys Leu Val	Ile Leu Ser Arg Asn Asp Glu Ala Leu Asn Ser	125
	130	135
Ser Arg Ala Ala Glu	Leu Leu His His Tyr Tyr Glu Ile Val Trp Asp	140
	145	150
Glu Glu Gln Thr His	Lys Phe Lys Asn Ile Ser Pro His Leu Gln Arg	155
	165	170
Ile Lys Ala Phe Lys	Thr Leu Gly	175
	180	185

<210> 7664
 <211> 204
 <212> PRT
 <213> Enterobacter cloacae

<400> 7664
 Ser Phe Ile Leu Leu Ala Lys Arg Leu Leu Arg Cys Lys Ile Ala Thr
 1 5 10 15
 Asn Cys Asn Lys Gly Gly Ser Pro Val Asn Lys Ser Met Leu Ala Gly
 20 25 30
 Ile Gly Ile Gly Val Ala Ala Ala Leu Gly Val Ala Val Ala Ser
 35 40 45
 Leu Asn Val Leu Asp Arg Gly Pro Gln Tyr Ala Gln Val Val Ser Ala
 50 55 60
 Thr Pro Ile Lys Glu Thr Val Lys Thr Pro Arg Gln Glu Cys Arg Asn
 65 70 75 80
 Val Ser Val Thr His Arg Arg Pro Val Gln Asp Glu Asn Arg Ile Ala
 85 90 95
 Gly Ser Val Leu Gly Ala Val Ala Gly Gly Val Ile Gly His Gln Phe
 100 105 110
 Gly Gly Gly Arg Gly Lys Asp Val Ala Thr Val Val Gly Ala Leu Gly
 115 120 125
 Gly Gly Tyr Ala Gly Asn Gln Val Gln Gly Ala Met Gln Glu Asn Asp
 130 135 140
 Thr Tyr Thr Thr Thr Gln Gln Arg Cys Lys Thr Val Tyr Asp Lys Ser
 145 150 155 160
 Glu Lys Met Leu Gly Tyr Asp Val Thr Tyr Lys Ile Gly Asp Gln Gln
 165 170 175
 Gly Lys Ile Arg Met Asp Lys Asp Pro Gly Thr Gln Ile Pro Leu Asp
 180 185 190
 Ser Asn Gly Gln Leu Ile Leu Asn Asn Lys Val
 195 200

<210> 7665
 <211> 300
 <212> PRT
 <213> Enterobacter cloacae

<400> 7665
 Ala Cys Ala Thr Arg Gly Arg Arg Arg His Ala Arg Ser Arg Ile Pro
 1 5 10 15
 Ser Ser His Arg Leu Val Tyr Glu Val Ile Met Leu Ser Arg Gln
 20 25 30
 Gly Arg Leu Ser Arg Phe Arg Lys Asn Lys Arg Arg Leu Arg Glu Arg
 35 40 45
 Leu Arg Gln Arg Ile Phe Phe Arg Asp Arg Met Met Pro Glu Ala Met
 50 55 60
 Asp Lys Pro Arg Val Val Val Leu Thr Gly Ala Gly Ile Ser Ala Glu
 65 70 75 80
 Ser Gly Ile Gln Thr Phe Arg Ala Ala Asp Gly Leu Trp Glu Glu His
 85 90 95
 Arg Val Glu Asp Val Ala Thr Pro Glu Gly Phe Ala Arg Asp Pro Ala
 100 105 110
 Leu Val Gln Ala Phe Tyr Asn Ala Arg Arg Arg Gln Leu Gln Gln Pro
 115 120 125
 Glu Ile Ala Pro Asn Ala Ala His Leu Ala Leu Ala Lys Leu Glu Glu
 130 135 140
 Ala Leu Gly Asp Arg Phe Leu Leu Val Thr Gln Asn Ile Asp Asn Leu
 145 150 155 160
 His Glu Arg Ala Gly Asn His Asn Ile Ile His Met His Gly Glu Leu
 165 170 175

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Leu Lys Val Arg Cys Ala Trp Ser Gly Gln Val Leu Glu Trp Lys Glu
      180      185      190
Asp Val Leu Asp Glu Asp Arg Cys His Cys Cys Gln Phe Pro Ser Arg
      195      200      205
Leu Arg Pro His Val Val Trp Phe Gly Glu Met Pro Leu Gly Met Asp
      210      215      220
Glu Ile Tyr Ser Ala Leu Ala Met Ala Asp Val Phe Ile Ala Ile Gly
      225      230      235      240
Thr Ser Gly His Val Tyr Pro Ala Ala Gly Phe Val His Glu Ala Arg
      245      250      255
Leu Gln Gly Ala His Thr Val Glu Leu Asn Leu Glu Pro Ser Gln Val
      260      265      270
Gly Ser Glu Phe Glu Glu Lys His Tyr Gly Leu Ala Ser Glu Val Val
      275      280      285
Pro Ala Phe Val Asp Lys Phe Leu Lys Gly Leu
      290      295      300

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<210> 7666

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 7666

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Arg Asn Ile Cys Val Leu Leu Leu Asn Asp Asn Val Val Thr Lys Ser
      5      10      15
Glu Gly Asp Cys Met Asp Lys Leu Leu Glu Arg Phe Leu His Tyr Val
      20      25      30
Ser Leu Asp Thr Gln Ser Lys Pro Gly Val Arg Gln Val Pro Ser Thr
      35      40      45
Glu Gly Gln Trp Lys Leu Leu Asn Leu Leu Lys Glu Gln Leu Glu Ala
      50      55      60
Met Gly Leu Val Asp Val Thr Leu Ser Glu Lys Ala Thr Gly Leu His
      65      70      75      80
Ala Arg Thr Gly Arg Ile Arg Ala Tyr Val Cys Ala Pro
      85      90

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<210> 7667

<211> 353

<212> PRT

<213> Enterobacter cloacae

<400> 7667

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Asn Lys Ile Ser Gly Asp Thr Glu Met Lys Lys Met Leu Ala Ala Ala
      5      10      15
Ala Leu Val Leu Gly Met Gly Ala Ala His Ala Asp Asp Ser Lys Thr
      20      25      30
Leu Tyr Phe Tyr Asn Trp Thr Glu Tyr Val Pro Pro Gly Leu Leu Glu
      35      40      45
Gln Phe Thr Lys Glu Thr Gly Ile Lys Val Ile Tyr Ser Thr Tyr Glu
      50      55      60
Ser Asn Glu Thr Met Tyr Ala Lys Leu Lys Thr Tyr Lys Asp Gly Ala
      65      70      75      80
Tyr Asp Leu Val Val Pro Ser Thr Tyr Phe Val Asp Lys Met Arg Lys
      85      90      95
Glu Gly Met Ile Gln Lys Ile Asp Lys Thr Lys Leu Thr Asn Phe Ser
      100      105      110
Asn Leu Asp Pro Glu Met Leu Asn Lys Pro Phe Asp Pro Asn Asn Asp
      115      120      125
Tyr Ser Ile Pro Tyr Ile Trp Gly Ala Thr Ala Ile Gly Ile Asn Ser
      130      135      140
Asp Ala Ile Asp Pro Lys Thr Val Ser Ser Trp Ala Asp Leu Trp Lys

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145 150 155 160
 Pro Glu Tyr Lys Ser Ser Leu Leu Leu Thr Asp Asp Ala Arg Glu Val
 165 170 175
 Phe Gln Val Ala Leu Arg Lys Leu Gly Tyr Ser Gly Asn Thr Thr Asp
 180 185 190
 Pro Lys Glu Ile Glu Ala Ala Tyr Asn Glu Leu Lys Lys Leu Met Pro
 195 200 205
 Asn Val Ala Ala Phe Asn Ser Asp Asn Pro Ala Asn Pro Tyr Met Glu
 210 215 220
 Gly Glu Val Asn Leu Gly Met Val Trp Asn Gly Ser Ala Phe Val Ala
 225 230 235 240
 Arg Gln Ala Gly Thr Pro Leu Glu Val Val Trp Pro Lys Glu Gly Gly
 245 250 255
 Ile Phe Trp Met Asp Ser Leu Ala Ile Pro Ala Asn Ala Lys Asn Val
 260 265 270
 Glu Gly Ala Leu Lys Leu Ile Asn Phe Leu Leu Arg Pro Asp Val Ala
 275 280 285
 Lys Glu Val Ala Glu Thr Ile Gly Tyr Pro Thr Pro Asn Leu Ala Ala
 290 295 300
 Arg Lys Leu Leu Ser Pro Glu Val Ala Asn Asp Lys Ser Leu Tyr Pro
 305 310 315 320
 Asp Ala Glu Thr Ile Ser Lys Gly Glu Trp Gln Asn Asp Val Gly Asp
 325 330 335
 Ala Ser Arg Leu Tyr Glu Glu Tyr Tyr Gln Lys Leu Lys Ala Gly Arg
 340 345 350

<210> 7668

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 7668

Tyr Arg Leu Leu Pro Ile Thr Ser Gly Leu His Phe Thr Thr Ile Gly
 1 5 10 15
 Val Ser Phe Met Ala Thr Arg Ser Ser Arg Thr Met Lys Gln Lys Ala
 20 25 30
 Leu Trp Ile Asn Gln Ile Lys Gly Leu Cys Ile Cys Leu Val Val Ile
 35 40 45
 Tyr His Ser Val Ile Thr Phe Tyr Pro His Leu Asp Gly Leu Gln His
 50 55 60
 Pro Leu Ser Gly Leu Leu Ala Lys Cys Trp Val Tyr Phe Asn Leu Tyr
 65 70 75 80
 Leu Ala Pro Phe Arg Met Pro Val Phe Phe Phe Ile Ser Gly Tyr Leu
 85 90 95
 Ile Arg Arg Tyr Ile Asp Glu Val Asn Trp Arg Thr Ser Leu Asp Lys
 100 105 110
 Arg Ile Trp Ser Ile Val Trp Val Leu Ala Leu Trp Gly Val Leu Gln
 115 120 125
 Trp Gln Ala Leu Thr His Leu Asn Ala Trp Leu Ala Pro Glu Arg Glu
 130 135 140
 Leu Ala Thr Ala Ser Asn Ala Ala Tyr Ala Asp Ser Val Ser Gly Phe
 145 150 155 160
 Val Leu Gly Met Leu Thr Ala Ser Thr Ser Leu Trp Tyr Leu Tyr Ala
 165 170 175
 Leu Val Val Tyr Phe Thr Leu Cys Lys Leu Leu Ser Arg Trp Lys Leu
 180 185 190
 Pro Met Leu Gly Ile Leu Ala Leu Ala Ser Ile Ala Ile Asn Phe Leu
 195 200 205
 Pro Leu Pro Trp Trp Gly Met Asn Ser Val Val Arg Asn Met Ile Tyr

210	215	220
Tyr Ser Leu Gly Ala	Tyr Gly Ala Gln	Leu Met Ala Trp Met Lys
225	230	235
Gly Met Asn Leu Arg	Ser Trp Leu Val	Leu Leu Ala Ser Gly Ala
245	250	255
Val Ser Val Val Leu	Trp Phe Ala Asn Val	Pro Leu Pro Leu Ser Leu
260	265	270
Leu Ser Ile Val Val	Ile Met Lys Leu Phe	Tyr Ser Phe Glu Gln Arg
275	280	285
Tyr Ala Val His Pro	Asn Asn Leu Leu Asn	Val Ile Gly Ser Asn Thr
290	295	300
Ile Ala Ile Tyr Thr	Thr His Arg Ile Leu	Ile Glu Ala Phe Ser Leu
305	310	315
Leu Leu Ile Arg Glu	Met Asn Ala Ala Tyr	Trp Pro Ile Trp Ala Glu
325	330	335
Leu Thr Leu Ile Leu	Val Tyr Pro Phe	Ile Ser Leu Leu Val Cys Thr
340	345	350
Leu Val Gly Leu Gly	Ala Arg Lys Leu Ser	Thr Ala Leu Phe Gly Asp
355	360	365
Leu Phe Phe Ser Pro	Pro Ala Arg Leu Ser	Pro Gln Thr Ala Thr Arg
370	375	380

385

<210> 7669

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 7669

Asn Val Arg Pro	His Tyr Glu Ser	Pro Arg Trp Leu	His Thr Asn Pro
1	5	10	15
Ala Ser Val Cys	Cys Leu Arg Arg	Leu Tyr Gly Thr	Ala Arg Lys Leu
20	25	30	35
Asn Thr Gln Pro	Arg Ser Leu Ser	Pro Leu Val Gln	Leu Glu Arg Ile
40	45	50	55
Arg Lys Ser Phe	Asp Gly Lys Asp	Val Ile Ser Asp	Leu Asn Leu Thr
60	65	70	75
Ile Asn Asp Gly	Glu Phe Leu Thr	Leu Leu Gly Pro	Ser Gly Cys Gly
80	85	90	95
Lys Thr Thr Val	Leu Arg Leu Ile	Ala Gly Leu Glu	Ser Val Asp Asn
100	105	110	115
Gly His Ile His	Leu Glu Asn Gln	Asp Ile Thr Gln	Val Pro Ala Glu
120	125	130	135
Asp Arg His Val	Asn Thr Val Phe	Gln Ser Tyr Ala	Leu Phe Pro His
140	145	150	155
Met Thr Val Phe	Glu Asn Val Ala	Phe Gly Leu Arg	Met Gln Lys Thr
160	165	170	175
Pro Ala Ser Glu	Ile Pro Pro Arg	Val Thr Glu Ala	Leu Arg Met Val
180	185	190	195
Gln Leu Glu Ala	Phe Ala Gln Arg	Lys Pro His Gln	Leu Ser Gly Gly
200	205	210	215
Gln Gln Gln Arg	Val Ala Ile Ala	Arg Ala Val Val	Asn Lys Pro Arg
220	225	230	235
Leu Leu Leu Leu	Asp Glu Ser Leu	Ser Ala Leu Asp	Tyr Lys Leu Arg
240	245	250	255
Lys Gln Met Gln	Asn Glu Leu Lys	Ala Leu Gln Arg	Lys Leu Gly Ile
260	265	270	275
Thr Phe Val Phe	Val Thr His Asp	Gln Glu Glu Ala	Leu Thr Met Ser
280	285	290	295
Asp Arg Ile Val	Val Met Arg Asp	Gly Lys Ile Glu	Gln Asp Gly Thr

245 250 255
 Pro Arg Glu Ile Tyr Glu Glu Pro Lys Asn Leu Phe Val Ala Ser Phe
 260 265 270
 Ile Gly Glu Ile Asn Ile Phe Asn Ala Thr Val Ile Glu Arg Leu Asp
 275 280 285
 Glu Gln Arg Val Arg Ala Asn Val Glu Gly Arg Glu Cys Asn Ile Thr
 290 295 300
 Val Asn Phe Ala Val Glu Lys Gly Gln Arg Leu Asn Val Leu Leu Arg
 305 310 315 320
 Pro Glu Asp Leu Arg Val Asp Glu Ile His Asp Thr Ala Asp Val Glu
 325 330 335
 Gly Leu Ile Gly Tyr Val Arg Glu Arg Asn Tyr Lys Gly Met Thr Leu
 340 345 350
 Glu Ser Val Val Glu Leu Glu Asn Gly Lys Met Val Met Val Ser Glu
 355 360 365
 Phe Phe Asn Glu Asp Asp Pro Asp Phe Asp His Ser Leu Asp Gln Lys
 370 375 380
 Met Val Ile Asn Trp Val Glu Ser Trp Glu Val Val Leu Ala Asp Glu
 385 390 395 400
 Glu His Lys

<210> 7670

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 7670

Glu Gly Gly Ala Gly Met Ile Gly Arg Leu Leu Pro Ala Gly Phe Met
 1 5 10 15
 Thr Ala Ile Tyr Ala Tyr Leu Tyr Ile Pro Ile Ile Ile Leu Ile Val
 20 25 30
 Asn Ser Phe Asn Ser Ser Arg Phe Gly Ile Asn Trp Gln Gly Phe Thr
 35 40 45
 Thr Lys Trp Tyr Gly Leu Leu Met Asn Asn Asp Ser Leu Leu Gln Ala
 50 55 60
 Ala Gln His Ser Leu Thr Met Ala Val Phe Ser Ala Thr Phe Ala Thr
 65 70 75 80
 Leu Ile Gly Ser Leu Thr Ala Val Ala Leu Tyr Arg Tyr Arg Phe Arg
 85 90 95
 Gly Lys Pro Phe Val Ser Gly Met Leu Phe Val Val Met Met Ser Pro
 100 105 110
 Asp Ile Val Met Ala Ile Ser Leu Leu Val Leu Phe Met Leu Leu Gly
 115 120 125
 Val Gln Leu Gly Phe Trp Ser Leu Leu Phe Ser His Ile Thr Phe Cys
 130 135 140
 Leu Pro Phe Val Val Val Thr Val Tyr Ala Arg Leu Lys Gly Phe Asp
 145 150 155 160
 Val Arg Met Leu Glu Ala Ala Lys Asp Leu Gly Ala Ser Glu Met Thr
 165 170 175
 Ile Leu Arg Lys Ile Ile Leu Pro Leu Ala Met Pro Ala Val Ala Ala
 180 185 190
 Gly Trp Leu Leu Ser Phe Thr Leu Ser Met Asp Asp Val Val Val Ser
 195 200 205
 Ser Phe Val Thr Gly Pro Ser Tyr Glu Ile Leu Pro Leu Lys Ile Tyr
 210 215 220
 Ser Met Val Lys Val Gly Val Ser Pro Glu Val Asn Ala Leu Ala Thr
 225 230 235 240
 Ile Leu Leu Val Leu Ser Leu Val Leu Val Ile Ala Ser Gln Val Ile
 245 250 255
 Ala Arg Asp Lys Thr Lys Ser Gln Gly Thr Gln Lys

260

265

<210> 7671

<211> 1171

<212> PRT

<213> Enterobacter cloacae

<400> 7671

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Arg His Cys Val Ser Val Ile Cys Pro Asn Thr Val Gly Ile Ser Pro
1          5          10          15
Arg Asp Ser Asp Ile Ala Met Pro Glu His Tyr Arg Phe Ser Leu Pro
20          25          30
Val Lys Ala Gly Asp Gln Arg Gln Leu Gly Glu Leu Thr Gly Ala Ala
35          40          45
Cys Ala Thr Leu Val Ala Glu Ile Ala Glu Arg His Pro Gly Pro Val
50          55          60
Val Leu Val Ala Pro Asp Met Gln Asn Ala Leu Arg Leu His Asp Glu
65          70          75          80
Ile Arg Gln Phe Thr Asp Ser Leu Val Phe Ser Leu Ala Asp Trp Glu
85          90          95
Thr Leu Pro Tyr Asp Ser Phe Ser Pro His Gln Glu Ile Ile Ser Ser
100         105         110
Arg Leu Ser Thr Leu Tyr Gln Leu Pro Thr Met Gln Arg Gly Val Leu
115         120         125
Ile Val Pro Val Asn Thr Leu Met Gln Arg Val Cys Pro His Ser Tyr
130         135         140
Leu His Gly His Ala Leu Val Met Lys Lys Gly Gln Arg Leu Ser Arg
145         150         155         160
Asp Ala Leu Arg Val Gln Leu Asp Gly Ala Gly Tyr Arg His Val Asp
165         170         175
Gln Val Met Glu His Gly Glu Tyr Ala Thr Arg Gly Ala Leu Leu Asp
180         185         190
Leu Tyr Pro Met Gly Ser Asp Gln Pro Tyr Arg Leu Asp Phe Phe Asp
195         200         205
Asp Glu Ile Asp Ser Leu Arg Val Phe Asp Ala Asp Thr Gln Arg Thr
210         215         220
Leu Glu Glu Val Asp Ser Ile Asn Leu Leu Pro Ala His Glu Phe Pro
225         230         235         240
Thr Asp Lys Thr Ala Ile Glu Leu Phe Arg Ser Gln Trp Arg Asp Arg
245         250         255
Phe Asp Val Lys Arg Asp Ala Glu His Ile Tyr Gln Gln Val Ser Lys
260         265         270
Gly Thr Leu Pro Ala Gly Ile Glu Tyr Trp Gln Pro Leu Phe Phe Asn
275         280         285
Glu Pro Leu Pro Ala Leu Phe Ser Tyr Phe Pro Ala Asn Thr Leu Ile
290         295         300
Val Asn Thr Gly Asp Ile Asp Ala Ser Ala Ser Arg Phe Glu Ser Glu
305         310         315         320
Thr Arg Ala Arg Phe Glu Asn Arg Gly Val Asp Pro Met Arg Pro Leu
325         330         335
Leu Pro Pro Glu Met Leu Trp Leu Arg Thr Asp Glu Leu Asn Ala Glu
340         345         350
Leu Lys Arg Trp Pro Arg Met Gln Leu Lys Thr Asp Ser Leu Ala Asp
355         360         365
Lys Ala Ala Asn Thr Asn Leu Ala Phe Arg Met Leu Pro Asp Leu Ala
370         375         380
Val Gln Ala Gln Gln Lys Ser Pro Leu Asp Asn Leu Arg Lys Phe Leu
385         390         395         400
Glu Ser Phe Thr Gly Pro Val Val Phe Ser Val Glu Ser Glu Gly Arg
405         410         415
Arg Glu Ala Leu Gly Glu Leu Leu Gly Arg Ile Lys Val Ala Pro Lys

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Arg	Ile	Leu	420			Leu	Ser	Glu	Ala	425			Gly	Asn	Gly	Arg	430		
			435	Leu	Ala					440	Ala	Thr					445	Leu	Met
Ile	Gly	Ala	Ala	Glu	His	Gly	Phe	Ile	Asp	Thr	Leu	Leu	Asn	Asn	Leu	Ala	450		
Leu	Ile	Cys	Glu	Ser	Asp	Leu	Leu	Gly	Glu	Arg	Val	Ala	Leu	Ile	Arg	Arg			
465	Gln	Asp	Ser	Arg	Arg	Thr	Ile	Asn	Pro	Asp	Thr	Leu	Ile	Arg	Asn	Leu	470		
Ala	Glu	Leu	His	Pro	Gly	Gln	Pro	Ile	Val	His	Leu	Glu	His	Gly	Val	500			
Gly	Arg	Tyr	Gln	Gly	Met	Thr	Thr	Leu	Glu	Ala	Gly	Gly	Ile	Lys	Gly				
Glu	Tyr	Leu	Met	Leu	Thr	Tyr	Ala	Asn	Asp	Ala	Lys	Leu	Tyr	Val	Pro	515			
Val	Ser	Ser	Leu	His	Leu	Ile	Ser	Arg	Tyr	Ala	Gly	Gly	Ala	Glu	Glu				
545	Asn	Ala	Pro	Leu	His	Lys	Leu	Gly	Gly	Asp	Ala	Trp	Ala	Arg	Ala	550			
Gln	Lys	Ala	Ala	Glu	Lys	Val	Arg	Asp	Val	Ala	Ala	Glu	Leu	Leu	Asp				
Ile	Tyr	Ala	Gln	Arg	Ala	Ala	Lys	Glu	Gly	Tyr	Ala	Phe	Lys	His	Asp	580			
Lys	Glu	Gln	Tyr	Gln	Leu	Phe	Cys	Asp	Ser	Phe	Pro	Phe	Glu	Thr	Gln				
Pro	Asp	Gln	Ala	Gln	Ala	Ile	Asn	Ala	Val	Leu	Ser	Asp	Met	Cys	Gln	610			
Pro	Leu	Ala	Met	Asp	Arg	Leu	Val	Cys	Gly	Asp	Val	Gly	Phe	Gly	Lys				
Thr	Glu	Val	Ala	Met	Arg	Ala	Ala	Phe	Leu	Ala	Val	Glu	Asn	Asn	Lys	660			
Gln	Val	Ala	Val	Leu	Val	Pro	Thr	Thr	Leu	Leu	Ala	Gln	Gln	His	Phe				
Asp	Asn	Phe	Arg	Asp	Arg	Phe	Ala	Asn	Trp	Pro	Val	Arg	Ile	Glu	Met	675			
Leu	Ser	Arg	Phe	Arg	Ser	Ala	Lys	Glu	Gln	Thr	Gln	Ile	Leu	Glu	Gln				
705	Ala	Ser	Glu	Gly	Lys	Ile	Asp	Ile	Leu	Ile	Gly	Thr	His	Lys	Leu	720			
Gln	Ser	Asp	Val	Lys	Trp	Lys	Asp	Leu	Gly	Leu	Leu	Ile	Val	Asp	Glu				
Glu	His	Arg	Phe	Gly	Val	Arg	His	Lys	Glu	Arg	Ile	Lys	Ala	Met	Arg	750			
Ala	Asn	Val	Asp	Ile	Leu	Thr	Leu	Thr	Ala	Thr	Pro	Ile	Pro	Arg	Thr				
Leu	Asn	Met	Ala	Met	Ser	Gly	Met	Arg	Asp	Leu	Ser	Ile	Ile	Ala	Thr	770			
Pro	Pro	Ala	Arg	Arg	Leu	Ala	Val	Lys	Thr	Phe	Val	Arg	Glu	Tyr	Asp				
Asn	Leu	Val	Val	Arg	Glu	Ala	Ile	Leu	Arg	Glu	Val	Leu	Arg	Gly	Ala	805			
Gln	Val	Tyr	Leu	Tyr	Asn	Asp	Val	Glu	Asn	Ile	Gln	Lys	Ala	Ala	Arg				
Asp	Arg	Leu	Ala	Glu	Leu	Val	Pro	Glu	Ala	Arg	Ile	Ala	Ile	Gly	His	850			
Gly	Gln	Met	Arg	Glu	Arg</														

Phe Gly Leu Ala Gln Leu His Gln Leu Arg Gly Arg Val Gly Arg Ser
 915 920
 His His Gln Ala Tyr Ala Trp Leu Leu Thr Pro His Pro Lys Ala Met
 930 935 940
 Thr Thr Asp Ala Gln Lys Arg Leu Glu Ala Ile Ala Ser Leu Glu Asp
 945 950 955 960
 Leu Gly Ala Gly Phe Ala Leu Ala Thr His Asp Leu Glu Ile Arg Gly
 965 970 975
 Ala Gly Glu Leu Leu Gly Glu Asp Gln Ser Gly Ser Met Glu Thr Ile
 980 985 990
 Gly Phe Ser Leu Tyr Met Glu Leu Leu Glu Asn Ala Val Asp Ala Leu
 995 1000 1005
 Lys Ala Gly Arg Glu Pro Ser Leu Glu Asp Leu Thr Ser Gln Gln Thr
 1010 1015 1020
 Glu Val Glu Leu Arg Met Pro Ser Leu Leu Pro Asp Asp Phe Ile Pro
 1025 1030 1035 1040
 Asp Val Asn Thr Arg Leu Ser Phe Tyr Lys Arg Ile Ala Ser Ala Lys
 1045 1050 1055
 Ser Glu Gly Glu Leu Glu Glu Ile Lys Val Glu Leu Ile Asp Arg Phe
 1060 1065 1070
 Gly Ile Leu Pro Asp Ala Ala Arg Asn Leu Leu Asp Ile Ala Arg Leu
 1075 1080 1085
 Arg Gln Gln Ala Gln Lys Leu Gly Ile Arg Lys Leu Glu Gly Asn Glu
 1090 1095 1100
 Lys Gly Gly Val Ile Glu Phe Ala Glu Lys Asn His Val Asp Pro Met
 1105 1110 1115 1120
 Trp Leu Ile Gly Leu Leu Gln Lys Gln Pro Gln His Phe Arg Leu Asp
 1125 1130 1135
 Gly Pro Thr Arg Leu Lys Phe Thr Gln Asp Leu Thr Glu Arg Lys Thr
 1140 1145 1150
 Arg Met Asp Trp Val Arg Asn Phe Met Arg Gln Leu Glu Glu Asn Ala
 1155 1160 1165
 Ile Ala
 1170

<210> 7672

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 7672

Leu Ser Leu Thr Pro Tyr Lys Thr Ile Thr Leu Ser Phe Val Trp Ile
 1 5 10 15
 Met Ile Met Met Ile Ser Ser Arg Phe Thr Arg Trp Leu Thr Leu Val
 20 25 30
 Ala Leu Ala Ala Thr Val Ala Val Ala Leu Pro Ala Arg Ala Asn Thr
 35 40 45
 Trp Pro Leu Pro Pro Ala Gly Ser Asn Val Val Gly Glu Asn Arg Phe
 50 55 60
 His Val Val Glu Asn Asp Gly Gly Ser Leu Glu Ala Ile Ala Lys Lys
 65 70 75 80
 Tyr Asn Val Gly Phe Leu Ala Leu Leu Gln Ala Asn Pro Gly Val Asp
 85 90 95
 Pro Tyr Val Pro Arg Ala Gly Ser Val Leu Thr Ile Pro Leu Gln Thr
 100 105 110
 Ile Leu Pro Asp Ala Pro Arg Gln Gly Ile Val Ile Asn Leu Ala Glu
 115 120 125
 Leu Arg Leu Tyr Tyr Tyr Pro Pro Gly Lys Asn Glu Val Thr Val Tyr
 130 135 140
 Pro Ile Gly Ile Gly Gln Leu Gly Gly Asp Thr Leu Thr Pro Thr Met
 145 150 155 160

Val Thr Thr Val Ser Asp Lys Arg Ala Asn Pro Thr Trp Thr Pro Thr
 165 170 175
 Ala Asn Ile Arg Ala Arg Tyr Lys Ala Gln Gly Ile Asp Leu Pro Ala
 180 185 190
 Val Val Pro Ala Gly Pro Asp Asn Pro Met Gly His His Ala Ile Arg
 195 200 205
 Leu Ala Ala Tyr Gly Gly Val Tyr Leu Leu His Gly Thr Asn Ala Asp
 210 215 220
 Phe Gly Ile Gly Met Arg Val Ser Ser Gly Cys Ile Arg Leu Arg Asp
 225 230 235 240
 Asp Asp Ile Lys Thr Leu Tyr Arg Val Ile Ala Pro Gly Thr Lys Val
 245 250 255
 Asn Ile Ile Asn Thr Pro Ile Lys Val Ser Glu Glu Pro Gly Gly Val
 260 265 270
 Arg Leu Val Glu Ile His Gln Pro Leu Ser Lys Asn Ile Asn Asp Asp
 275 280 285
 Pro Gln Thr Leu Pro Ile Asn Leu Asn Ala Ser Met Val Ser Phe Lys
 290 295 300
 Thr Asn Ala Asn Thr Asp Gly Ala Val Met Glu Arg Ala Met Glu Ala
 305 310 315 320
 Arg Ser Gly Met Pro Thr Asp Val Thr Arg His His Glu Val Ala Gln
 325 330 335
 Gln Ser Met
 340

<210> 7673

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 7673

Lys Ala Gly Arg Leu Tyr Trp Leu Met Lys Asn Thr Ser Lys Phe Gln
 1 5 10 15
 Asn Val Val Ile Ala Thr Ile Val Gly Trp Leu Val Leu Phe Val Phe
 20 25 30
 Leu Pro Asn Leu Met Ile Ile Val Thr Ser Phe Leu Thr Arg Asp Asp
 35 40 45
 Ala Asn Phe Val Ala Met Val Phe Thr Leu Asp Asn Tyr Ala Arg Leu
 50 55 60
 Leu Asp Pro Leu Tyr Phe Asp Val Leu Leu His Ser Leu Asn Met Ala
 65 70 75 80
 Leu Ile Ala Thr Leu Ala Cys Leu Val Leu Gly Tyr Pro Phe Ala Trp
 85 90 95
 Phe Leu Ala Arg Leu Pro Gln Lys Val Arg Pro Leu Leu Phe Leu
 100 105 110
 Leu Ile Val Pro Phe Trp Thr Asn Ser Leu Ile Arg Ile Tyr Gly Leu
 115 120 125
 Lys Ile Phe Leu Ser Thr Lys Gly Tyr Leu Asn Glu Phe Leu Leu Trp
 130 135 140
 Leu Gly Val Ile Glu Thr Pro Ile Arg Ile Met Phe Thr Pro Gly Ala
 145 150 155 160
 Val Ile Val Gly Leu Val Tyr Ile Leu Leu Pro Phe Met Val Met Pro
 165 170 175
 Leu Tyr Ser Ser Ile Glu Lys Leu Asn Lys Pro Leu Leu Glu Ala Ala
 180 185 190
 Lys Asp Leu Gly Ala Ser Lys Leu Gln Thr Phe Val Arg Ile Ile Ile
 195 200 205
 Pro Leu Thr Met Pro Gly Ile Ile Ala Gly Cys Leu Leu Val Met Leu
 210 215 220
 Pro Ala Met Gly Leu Phe Tyr Val Ser Asp Leu Met Gly Gly Ala Lys
 225 230 235 240

Asn Leu Leu Ile Gly Asn Val Ile Lys Ser Gln Phe Leu Asn Ile Arg
 245 250 255
 Asp Trp Pro Phe Gly Ser Ala Thr Ser Ile Thr Leu Thr Val Val Met
 260 265 270
 Gly Leu Met Leu Leu Val Tyr Trp Arg Ala Ser Arg Leu Leu Asn Lys
 275 280 285
 Lys Val Glu Leu Glu
 290

<210> 7674

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 7674

Leu Phe Asn Lys Thr Thr Glu Asp Gln Arg His Met Thr Thr Asp Val
 1 5 10 15
 Thr Arg Cys Ala Lys Lys Ser Arg Gly Arg Pro Lys Val Phe Asp Arg
 20 25 30
 Asp Ala Ala Leu Asp Lys Ala Met Thr Leu Phe Trp Gln His Gly Tyr
 35 40 45
 Glu Ala Thr Ser Leu Ser Asp Leu Val Glu Ala Thr Gly Ala Lys Ala
 50 55 60
 Pro Thr Leu Tyr Ala Glu Phe Thr Asn Lys Glu Gly Leu Phe Arg Ala
 65 70 75 80
 Val Leu Asp Arg Tyr Ile Ser Arg Phe Ala Ala Lys His Glu Ala Gln
 85 90 95
 Leu Phe Cys Glu Glu Lys Thr Val Glu Gln Ala Leu Gln Asp Tyr Phe
 100 105 110
 Thr Ala Ile Ala Thr Cys Tyr Thr Ser Lys Asp Thr Pro Ala Gly Cys
 115 120 125
 Phe Met Ile Asn Thr Ser Ala Thr Leu Ala Ala Ser Ser Lys Glu Ile
 130 135 140
 Ala Asn Thr Val Lys Ser Arg His Ala Met Gln Glu Glu Thr Leu Ser
 145 150 155 160
 Thr Phe Leu Ala Gln Arg Gln Leu Arg Gly Glu Ile Pro Ala His Cys
 165 170 175
 Arg Pro Gln Glu Leu Ala Gln Tyr Leu Ser Cys Ile Leu Gln Gly Met
 180 185 190
 Ser Ile Ser Ala Arg Glu Gly Ala Thr Leu Glu Lys Leu Gln Gly Ile
 195 200 205
 Thr His Thr Thr Leu Arg Leu Trp Pro Glu Leu Leu Lys Leu
 210 215 220

<210> 7675

<211> 282

<212> PRT

<213> Enterobacter cloacae

<400> 7675

His Gly Gly Gln Ser Val Gln Arg Leu Thr Lys Arg Ile Gly Arg Lys
 1 5 10 15
 Met Asn Ile Ala Thr Ala Ser Leu Ser Arg Gln Gly Thr Arg Ala Ser
 20 25 30
 Asn Gln Asp Gln Thr Gly Glu Thr Ile Gly Glu Arg Ser Ala Cys Phe
 35 40 45
 Val Val Cys Asp Gly Ile Ala Gly Leu Pro Gly Gly Glu Val Ala Ala
 50 55 60
 Glu Leu Ala Arg Asn Ser Ile Ile Ser Arg Phe Asp Gly Asp Lys His
 65 70 75 80
 Leu Asn Ala Gln His Ile Arg Asp Tyr Val Gln Thr Ala Asn Arg Thr

Ile Leu Ser Glu 85 Gln Gln Ala Val Gln 90 Asp Tyr Arg Arg Met Gly Thr
 100 105 110
 Thr Leu Val Ser Leu Phe Ile Asp Arg Asp Tyr Arg Leu Ala Tyr Trp
 115 120 125
 Ala His Ala Gly Asp Ser Arg Leu Tyr Leu Phe Arg Arg Gly Trp Leu
 130 135 140
 Trp His Val Thr Thr Asp His Ser Leu Val Gln Gln Met Lys Asp Ala
 145 150 155 160
 Gly His Gln Thr Asp Asp Leu Asn Ser Asn Leu Leu Tyr Leu Ala Leu
 165 170 175
 Gly Ile Glu Asn Gly Gly Pro Glu Ala Ser Tyr Ser Asp Val Val Gln
 180 185 190
 Val Glu Asp Gly Asp Ala Phe Leu Leu Cys Thr Asp Gly Phe Trp His
 195 200 205
 Gly Val Ser Glu Glu Gln Met Lys Gln Ser Leu His Met Val Asn Thr
 210 215 220
 Pro Gln Glu Trp Leu Thr Leu Met Asn Gln Ile Ile Gln Lys Asn Ala
 225 230 235 240
 Glu Gln Glu Gly Asn Ala Gln Asp Asn Tyr Thr Ala Val Ala Val Trp
 245 250 255
 Met Gly Asn Pro Gln Asp Thr Thr Leu His Thr Leu Ser Asp Ala
 260 265 270
 Ala Gln Phe Leu Pro Cys Gly Thr Asp
 275 280

<210> 7676

<211> 914

<212> PRT

<213> Enterobacter cloacae

<400> 7676

Arg Arg Ala Ile Arg Val Gln His Leu Ala Arg Pro Ser Ala Ser Ala
 1 5 10 15
 Cys Ser Ala Trp Arg Ser Gly Val Ser Arg Arg Ala Ile Ile Leu Pro
 20 25 30
 Tyr Thr Glu Ser Leu Leu Met Glu Thr Asn Met Ser Glu Ile Ser Arg
 35 40 45
 Ala Val Leu Phe Gly Lys Leu Asp Thr Leu Leu Phe Thr Ser Leu Glu
 50 55 60
 Ser Ala Thr Ala Phe Cys Lys Leu Arg Gly Asn Pro Tyr Val Glu Leu
 65 70 75 80
 Val His Trp Leu His Gln Leu Met Gln Gln Gln Asp Gly Asp Leu Gln
 85 90 95
 Gln Val Ile Arg His Phe Ala Leu Asp Glu Gln Gln Leu Thr Arg Asp
 100 105 110
 Ile Val Ala Ala Leu Asp Ala Leu Pro Arg Gly Ala Ser Ser Val Ser
 115 120 125
 Asp Leu Ser Glu His Ile Asp Ser Ala Val Glu Arg Ala Trp Val Tyr
 130 135 140
 Gly Ser Leu Lys Phe Gly Val Ser Arg Ile Arg Gly Gly His Leu Leu
 145 150 155 160
 Ile Gly Ile Leu Lys Thr Trp Asn Leu Ala Asn Val Leu Lys Ser Ile
 165 170 175
 Ser Ala Gln Phe Thr Arg Leu Asn Val Glu Val Leu Val Glu Gln Phe
 180 185 190
 Asp Ala Ile Cys Ala Ser Ser Lys Glu Ser Gln Gln Ala Ala Ala Ala
 195 200 205
 Ala Asp Ala Pro Ala Gly Ala Val Pro Ala Ala Gln Gly Thr Leu Ala
 210 215 220
 Gln Tyr Gly Gln Asp Leu Thr Ala Arg Ala Arg Glu Gly Lys Ile Asp